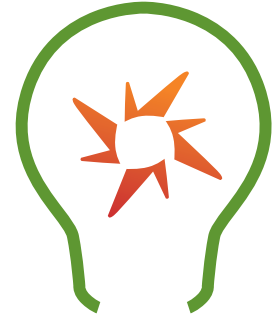


Where great minds meet to form great ideas.



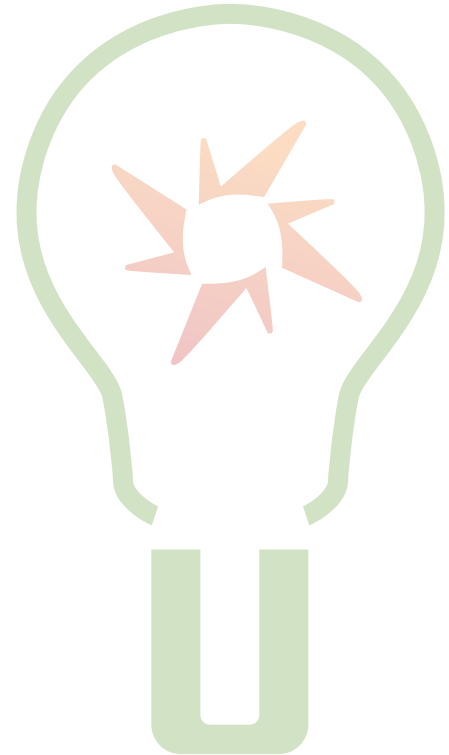
Ingenium

APEGM CONFERENCE 2013

Where Great Minds Meet to Form Great Ideas
October 22-25, 2013 ~ The Fort Garry Hotel ~ Winnipeg, MB

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Greetings!

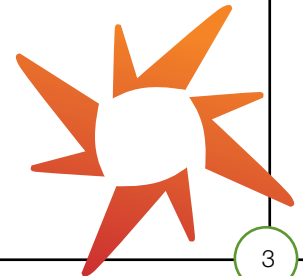
As APEGM President, it is my pleasure to welcome you to Ingenium, the Association of Professional Engineers and Geoscientists of Manitoba Conference for 2013!

This year marks the 94th Annual General Meeting for APEGM. The theme is “Facing Challenges” - looking at topics of interest to engineering and geosciences professionals as a profession, at their workplace, in their province, and in their personal careers!

On behalf of all the members of the Association, thank you for joining us at our Annual Conference: Ingenium.

Yours truly,

*Dawn Nedohin-Macek, P.Eng.
President - APEGM*



Ingenium Schedule

Tuesday, October 22

New Members Luncheon and Certificate
Presentation

St. Boniface Golf Club
11:30 a.m. - 1:30 p.m.

Wednesday, October 23

Recognition Wine & Cheese Reception

Broadway Room, The Fort Garry Hotel
7:00 - 9:00 p.m.

Thursday, October 24

Professional Development Seminars

Provencher Ballroom, The Fort Garry Hotel
8:30 a.m. - 4:00 p.m.

Partners Program

The Forks
10:30 a.m. - 2:00 p.m.

Friday, October 25

Annual General Business Meeting

Crystal Ballroom, The Fort Garry Hotel
8:30 - 10:30 a.m.

Partners Program

FortWhyte Alive
10:00 a.m. - 2:00 p.m.

Awards Gala Dinner and Dance

Grand Ballroom, Fort Garry Place
5:30 p.m. - 12:30 a.m.

Tuesday, October 22

New Members Luncheon and Certificate Presentation

St. Boniface Golf Club
11:30 a.m. - 1:30 p.m.

100 Youville Rd.
Winnipeg, MB R2H 2S1
Tel: (204) 233-2497

Business casual dress
Pre-registration required

This luncheon is held bi-annually to recognize new members and present them with their license certificates. Attendance is by invitation and additional purchased tickets, offering new members and guests the opportunity for more intimate conversation and socializing adding to the appeal of this enjoyable and informal gathering.

Wednesday, October 23

Recognition Wine & Cheese Reception

Broadway Room, The Fort Garry Hotel
7:00 - 9:00 p.m.

222 Broadway
Winnipeg, MB R3C 0R3
Tel: (204) 942-8251
Fax: (204) 956-2351
Toll-free: 1-800-665-8083

Business casual dress
Pre-registration required

This reception is to honour APEGM Past Presidents, new APEGM Life Members, and those receiving their new Engineers Canada FEC designation. This is a wonderful opportunity for this intimate group to gather and socialize while receiving their certificates and pins.

Thursday, October 24

Professional Development Seminars

Provencher Ballroom, The Fort Garry Hotel

8:30 a.m. - 4:00 p.m.

7:45 - 8:30	Registration & Continental Breakfast - <i>Provencher Ballroom, Lobby Floor</i>			
8:30 - 9:15	Welcome and Keynote - <i>Provencher Ballroom, Lobby Floor</i> <i>Keynote Speaker: Minister Steve Ashton</i>			
	... As a Profession <i>Salon A, First Floor</i>	... In your Workplace <i>Salon C, First Floor</i>	... In the Province <i>Gateway Room, Mezz. Level</i>	... In your Personal Career <i>La Verendrye, Mezz. Level</i>
9:20 - 10:20	"ABC's of P.Eng." - Grant Koropatnick, P.Eng.	"Communicating Across Cultures" - Jitendra Paliwal, P.Eng.	"Electronic Seal" - Mark Stephens	"Getting it Done and Done on Time" - Ann Christoffersen
10:20 - 10:40	Coffee Break & Booths - <i>Mezzanine Level</i>			
10:40 - 11:40	"Facing the Challenges of Registration" - Sharon Sankar, P.Eng.	"Security in the Real World: How to Reduce FUD" - Vijay Sankar, P.Eng.	"When Demand Exceeds Supply" - Kathryn Atamanchuk, P.Eng.	"Understanding Yours and Others Personality Types" - Lisa Moretto
12:00 - 1:30	Lunch & Keynote - <i>Provencher Ballroom, Lobby Floor</i> <i>Keynote Speaker: Jim Kor, P.Eng., President & Project Leader, Urbee 2</i>			
1:40 - 2:40	"Do you Need a Certificate of Authorization?" - Michael Gregoire, P.Eng.	"Diversity in the Workplace" - Richard Ludwick	"Collusion and Corruption in the Construction Industry" - Stephane Bilodeau, Eng.	"Taking the Dread Out of Networking" - Lisa Moretto
2:40 - 3:00	Coffee Break & Booths - <i>Mezzanine Level</i>			
3:00 - 4:00	"Public Interest Review Committee" - Roger Rempel, P.Eng.	"So, You Have to Give a Talk" - Ann Christoffersen	"How to Avoid Litigation on Engineering Projects" - Roy McPhail, P.Eng.	"Conflict Management: How to Prevent, Contain, and Resolve" - Lisa Moretto

Morning Keynote Speaker

Minister Steve Ashton



Steve Ashton was first elected to the Manitoba Legislature in 1981. He was re-elected in the general elections of 1986, 1988, 1990, 1995, 1999, 2003, 2007 and 2011.

He was appointed Minister of Highways and Government Services in October 1999

(later changed to Transportation and Government Services) and Minister responsible for The Gaming Control Act in July 2000. He was appointed Minister responsible for Emergency Measures in October 2001. In September 2002, Steve was appointed Minister of Conservation and in November 2003, he became the first appointed Minister of Water Stewardship, a department that is solely committed to water issues and is the only department committed to water in Canada. In September 2006, Steve

was appointed Minister of Intergovernmental Affairs and Minister responsible for Emergency Measures. In October 2009, he was appointed as Minister of Infrastructure and Transportation, Minister Responsible for Emergency Measures and Minister Responsible for the Manitoba Lotteries Corporation.

Steve is a graduate of R.D. Parker Collegiate in Thompson. He received a B.A. (Hon.) in Political Studies at the University of Manitoba and a M.A. in Economics from Lakehead University.

Steve has lived in Thompson since 1967. His wife Hari Dimitrakopoulou-Ashton is a college instructor. He has two children, Niki, the Member of Parliament for Churchill, and Alexander, an instructor with the University College of the North in Thompson.

Lunch Keynote Speaker

Jim Kor, P.Eng. President & Project Leader,
URBEE

Sustainable Cars and the Future of Manufacturing

*How concern for the environment and the
revolution in 3D Printing could change automotive
design forever*

Movement is life itself. Stop moving as a society
and we die. Today, about 1 billion people move
around by automobile. By 2050, the number of
drivers and cars may reach 2.5 billion. Can
the world handle so many gas cars roaming
the planet? Some believe this will cause
catastrophic ecological collapse.

Jim Kor and a seasoned team of designers
believe now is the time to act on ecological
decay. They created a car engineered for
global sustainability. They call it URBEE (Urban
Electric). They believe that steering automotive
technology away from fossil fuels and towards



renewable energy is vital to our very survival as an
emerging global civilization.

The Promise of Additive Manufacturing:

When 3D Printing is used to make production
parts, it is called Additive Manufacturing. The
URBEE team views this emerging technology
as crucial to the design and development of a
global environmental car for this century. Only
Additive Manufacturing allows the full adoption
and integration of the following design tools and
mindsets:

1. Computerized Simulation - which allows for design refinement and optimization
2. High Performance Computing - which allows designers to find solutions that are way off the beaten path, and yet prove to be better
3. Biomimicry - which allows Learning from Nature and opens the door for the creation of truly sustainable designs within our built environment.

Only Additive Manufacturing has the ability to build the incredibly complicated designs that the above design tools and mindsets will create. This is the power of this emerging technology, as our global civilization steers towards sustainability.

The Presentation:

Hear Jim Kor describe the philosophy behind the URBEE project and why he, as a designer, finds 3D Printing so interesting and compelling as a manufacturing process. Jim will describe the creation of the first prototype URBEE, which

has been called the first 3D printed car in the world (its body was 3D printed). Also, it is very likely the 'greenest' practical, two-person car yet envisioned, on Earth. Jim will also lay out the Team's plans to design, build, and demonstrate a second car, called URBEE 2. This all-new car, already begun, will have more than 50% of its parts 3D printed. These parts will be designed from the onset specifically for Additive Manufacturing. URBEE 2 will demonstrate the benefits of this new way of manufacturing in our drive towards sustainability.

Jim Kor, P.Eng.:

Jim Kor is a Professional Engineer with a lifetime of experience designing machinery for mass production. He combines vision with empathy, and believes that the ultimate goal of design is to serve the public good. He designs only worthwhile products that carefully work in harmony with the natural landscape. He lives in Winnipeg, in the middle of Canada, with his wife, two sons, a dog, and three cats.

ABCs of P-E-N-G

Did you know that every aspect of professional practice as an engineer or geoscientist is covered by the ABCs? The Act, By-laws and Code – the ABCs!!!

Attend this session and hear an overview of the 3 governing documents: The Engineering & Geoscientific Professions Act of Manitoba, the APEGM By-Laws and the Code of Ethics for the Practice of Professional Engineering and Professional Geoscience.

The session includes some history, a fun ethics quiz and ample time for questions and answers with the Registrar.



Presented By:

Grant Koropatnick, P.Eng.

Grant Koropatnick, P.Eng. is the Executive Director & Registrar for the Association of Professional Engineers and Geoscientists of Manitoba (APEGM). He is a graduate Civil Engineer and holds a certificate

in Human Resource Management from the University of Manitoba. With more than 20 years experience, he has held technical and managerial positions in human service environments including the University of Manitoba and the Pembina Trails School Division. Born and raised in Winnipeg, Grant enjoys a variety of interests in his spare time including running for fitness, writing, public speaking and philanthropy.

Communicating Across Cultures

In an increasingly globalized world where geopolitical boundaries are fast disappearing, cross-cultural communication has become of paramount importance. Gone are the days when people who were born and raised in similar cultures did business deals locally. In today's globalized world, it is imperative that engineering professionals are aware of the cultural sensibilities of their business counterparts.

Communicating Across Cultures takes a light-hearted approach to discuss what constitutes culture and what are the various factors that influence it. Several real-world examples are discussed to highlight the interesting scenarios and faux-pas cultural differences have led to in different professional situations.

This interactive workshop will help engineers and engineering managers realize the importance of

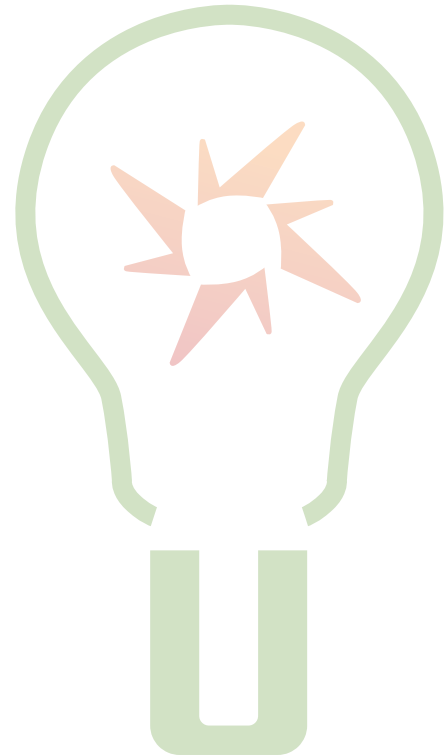
cross-cultural communication in a professional setup and provide them with some cues to interact more effectively when dealing with other professionals who are from a different culture.

Presented By:

Dr. Jitendra Paliwal, Ph.D., P.Eng.

Growing up as a child in India, Jitendra Paliwal wondered if it would ever be possible to tell how sweet an apple is without actually taking a bite out of it. Now as a professor with expertise in the area of machine vision and vibrational spectroscopy, he researches ways to peek inside biological tissues and cells – so we can assess much more than just the sweetness of a fruit.

Jitendra joined the University of Manitoba as a graduate student in 1995 and continued on as a faculty after completing his PhD in 2002. He is a Professional Engineer registered with the Association of Professional Engineers and Geoscientists of Manitoba (APEGM). In his free time, he likes to read about and discuss languages, religion and pop-culture.



Electronic Seal

For centuries, people have been applying their signature to documents using different methods. In the 21st century, doing business relies almost exclusively on information technologies. Consequently, signing is no longer done using a pen or wet seal, but rather by using technologies that both irrefutably link your identity to your electronic documents as well as protect their integrity.

In this session, Notarius demonstrates how you confer the same degree of authenticity to your electronic documents that your handwritten signature once did for paper with the latest version of its digital signature software Consigno 3.5.

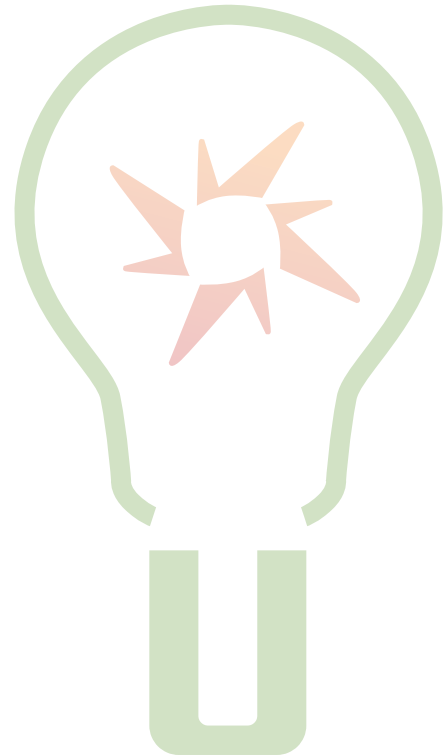


Presented By: **Mark Stephens**

Mark P. Stephens is the head of Marketing and Communications for Montreal based Notarius Inc.. With over 10 years experience, He has spent most of his professional career honing his craft in the Information Technology and Services sector. Having worked with tech giants Bell Canada, Microsoft Corp., Samsung, BlackBerry and LG, Mark has managed various major portfolios and take-to-market initiatives. Mark holds a degree in Economics with a minor in marketing from Concordia University

Former tennis professional based out of the U.S., Mark has sat on various boards for

both non and for profit organizations and currently mentors new and young Canadians to help them prepare for careers in the field of marketing and business development. Backed by a stellar team, at Notarius, Mark is building solid partnerships with industry leaders and making the Notarius brand a force to be reckoned with.



Getting it Done and Done on Time

Let's face it: there is never enough time to do all we need to do. This is true at home and at work. We are all given exactly the same number of hours in the day but some people seem to accomplish more than others. How do they do it?

This session will explore why we procrastinate, understand how we can overcome procrastination, discuss how to set effective goals, provide rubrics for determining task priority and develop personal ways to increase efficiency.



Presented By: **Ann Christoffersen**

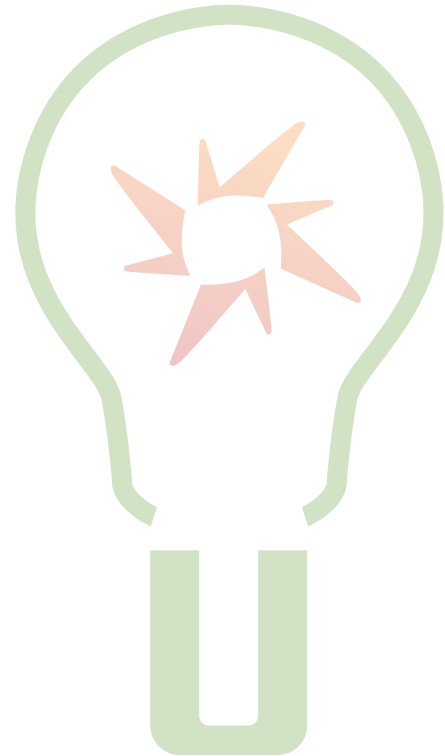
Ann has been an RGI Consultant for 17 years and has been in the technical communication field since 1990. She has developed and delivered written and oral communication skills courses in both the United States and Canada.

She holds a BS in Computer Science and Mathematics from Clarkson University and has a Masters of Science degree in Instructional and Performance Technology from Boise State University. She is a Certified Human Performance Analyst specializing in Front End Analysis, developing training programs to support major systems acquisitions. Ann is retired from the US Army Reserve, with over 20 years combined service from Active Duty,

National Guard, and Reserve components.

Ann has been a technical writer for Accelerated Technology, Inc. working with programmers and customer support to develop effective user guides. As a consultant, she has worked with companies to comply with various portions of the Americans With Disabilities Act. She was also an outreach instructor for South Western Oregon Community College and the University of Southern Alabama teaching business writing skills and editing skills. Ann has also worked with the IEEE press reviewing and editing several books prior to publication.

Ann teaches regularly to the General Electric, APEGM, Manitoba Hydro, SaskTel, and TetraTech, an engineering consulting firm. Her teaching experience is extensive, across varied audiences, and she has mentored many other presenters.



Facing the Challenges of Registration

The presentation will focus on some of the trends that are happening on the Admission's side and how APEGM is dealing with these trends. In particular, Sharon will be speaking about the unique issues surrounding foreign-trained engineering (and geoscience) applicants and how they can negotiate the Canadian provincial licensure process, which is quite unique in comparison to the rest of the World.

many changes in policy and has noted major changes in all applicants' knowledge and attitudes towards registration.

Presented By:

Sharon Sankar, P.Eng., P.E.



Sharon has been Director of Admissions for the Association of Professional Engineers and Geoscientists of Manitoba since 2003. Over the years, she has seen and helped to implement

Security in the Real World: How to Reduce FUD

A simple search on IT Security Topics at DuckDuckGo (or Google, perhaps :) gives you enough information to keep you occupied for the rest of your life. Mobile devices, medical devices, and all sorts of equipment ranging from SCADA systems to home projector systems have been successfully targeted and broken into by vandals, government agencies, crooks, and business rivals. What can you do to balance security and business requirements? How can you reduce legitimate security concerns without changing your entire business model?

Vijay Sankar's presentation provides you practical ideas on how to apply traditional "defense-in-depth" techniques in today's business networks where coolest gadgets and applications are used and abused.

Presented By:
Vijay Sankar, M.Eng., P.Eng., ForeTell Technologies Ltd.

Vijay Sankar is the President & CEO of ForeTell Technologies Limited, a Winnipeg-based company with over 25 years of experience in providing Consulting Services, Products, and Managed Solutions for clients and customers in Canada, United States, and elsewhere.

When Demand Exceeds Supply

In late 2012, Engineers Canada issued 'The Engineering Labour Market in Canada: Projections to 2020' report (available at: http://www.engineerscanada.ca/files/w_Engineering_Labour_Market_in_Canada_oct_2012.pdf) that examines the demand for engineers across the country over the next 7 years.

This report clearly illustrates that Manitoba's demand for engineers already exceeds its supply in several disciplines. This talk will review the report from a Manitoba perspective and discuss how well we are positioned to address these labour challenges by reviewing the programs currently in place to support engineering in the province, exploring options to increase our supply of engineers, and identifying potential roadblocks.



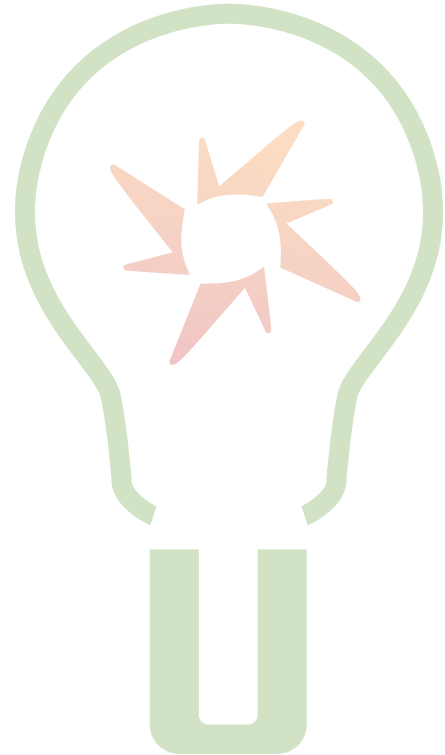
Presented By:
Kathryn Atamanchuk,
P.Eng., MBA, PMP

Kathryn Atamanchuk is an Engineer-in-Residence at the University of Manitoba. In this capacity, Ms. Atamanchuk supports Manitoba's Aero-Engine Test industry through

delivery of specialized courses and facilitation of research initiatives between the University and industry partners. Prior to this, Kathryn worked for StandardAero for 13 years in various engineering and leadership roles.

Kathryn is registered with APEGM, has a B.Sc. in Mechanical Engineering (Aerospace Option), an MBA from the University of Manitoba, and holds a designation as a Project Management Professional. She currently sits

on the APEGM's Committee for Increasing the Participation of Women in Engineering (CIPWIE) and Investigation Committee and is a member of the Dean's Advisory Council for Women in Engineering.



Understanding Yours and Others Personality Types

In the words of the singer “Lady Gaga”: We were born this way! Each of us enters this world with an innate personality that determines how we interact, engage, energize, think, and navigate our surroundings. Understanding who we are and being able to recognize traits in those around us can help make our teams and relationships more effective.

Have you ever come away from a meeting with a completely different understanding of the outcomes than those of others who attended? What we hear, perceive, and decide is affected by our personality. This session will introduce you to the Myers Briggs Type Indicator tool and walk you through a self-assessment.

You will also learn about additional resources to help you further your knowledge in this vast

field and apply type research to conflict, team building, communication, and leadership.



Presented By: **Lisa Moretto**

Lisa is the President of RGI International, Inc. with offices in Winnipeg, MB and Rochester, NY. She has 20 years experience teaching business and technical communication courses for government agencies, private corporations, consulting firms and professional societies. Her courses consistently receive positive reviews. She is an engaging and interactive presenter and a frequent invited speaker at international conferences.

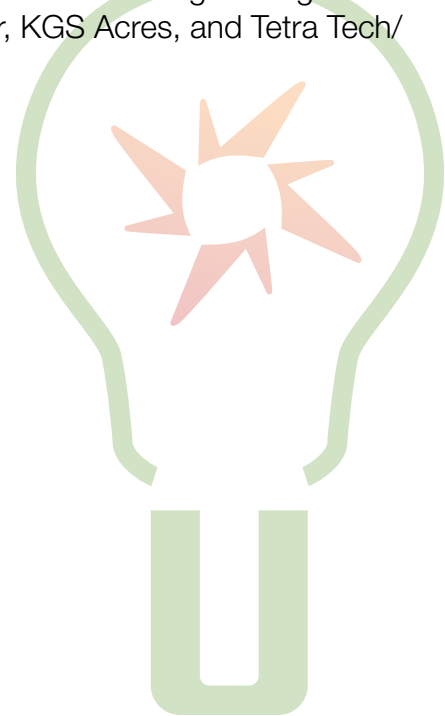
She has experience as an Information Developer for IBM in the US and as a Learning

Products Engineer for Hewlett-Packard in the UK. Lisa holds a BS in Technical Communication from Clarkson University, Potsdam, New York, and an MS in User Interface Design from the London (England) Guildhall University.

She has co-authored four books with Ron Blicq: *Get to the Point!*, *Guidelines for Report Writing*, and *Technically Write!* with Prentice Hall, and *Writing Reports to Get Results* with the IEEE Press.

Lisa is an adjunct professor at the Rochester Institute for Technology, where she teaches Technical Writing, Business Communication, and Effective Technical Communication. She is the Immediate Past President of the Rochester Engineering Society and contributes a monthly article to the RES Magazine. She is an active member of the Society for Technical Communication and the IEEE Professional Communication Society.

She has presented to various industries and organizations throughout Manitoba including Manitoba Hydro, Cangene, Richardson International, Health Canada, Cargill, APEGM, MTS/Allstream, and several engineering firms including Genivar, KGS Acres, and Tetra Tech/Wardrop.



Do you Need a Certificate of Authorization?

Does my corporation need to be registered? What are my ethical obligations to ensure that my organization is compliant with the Engineering and Geoscientific Professions Act? Find out the answer to these questions and others you might have for the Professional Standards Officer.



Presented By:

**Michael Gregoire, P.Eng.,
B.Env.D**

As the Professional Standards Officer at APEGM, Michael provides assistance to Investigations, Discipline, Enforcement, Legislation, Standards, and the new CPD

Program. Prior to taking on this role in 2008, Michael worked in the world of consulting engineering, where he provided solutions to problem buildings.

Diversity: The Good, The Bad, and The Ugly

In this session, we will discuss some of the elements of diversity and explore some of the benefits and the challenges that diversity brings to our communities where we live and work. We will also review what the Workplace Safety and Health Act and The Human Rights Code say about peoples' rights and responsibilities regarding diversity issues.



Presented By: **Richard Ludwick**

Rich's most recent employment was with Manitoba Hydro as the Corporation's Human Rights & Respectful Workplace Advisor. He functioned in that position for approximately 9 years. Since retiring, Rich has

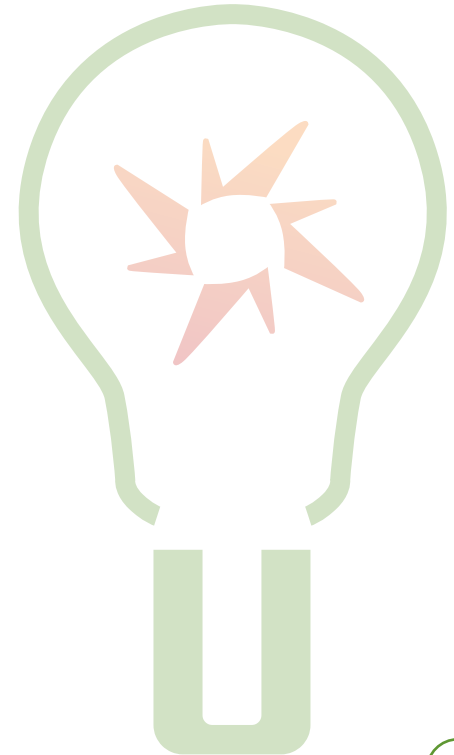
been consulting and delivering workshops on human rights and human resources topics as requested. Prior to working for Manitoba Hydro, Rich was employed as a Human Rights Officer with the Manitoba Human Rights Commission for about twelve years.

At Manitoba Hydro and at the Manitoba Human Rights Commission, Rich provided consultation services on human rights related matters to business owners, executives, managers, human resource practitioners, supervisors, employees

and collective bargaining units regarding all aspects of work, services and accommodations. He also conducted investigations, including the collection of evidence from the conflicted parties as well as from witnesses. Rich facilitated early resolution and mediation of complaints and conducted training / education activities.

Rich has also been employed as a Training Consultant, Organization and Staff Development, Manitoba Civil Service Commission and as an Instructor for the Certificate Program for Intercultural Trainers at Red River College.

During his employment, Rich was a member of the Human Resource Management Association of Manitoba and he was awarded the Certified Human Resource Professional designation.



Collusion and Corruption in the Construction Industry

Two years after its creation, the Quebec Commission of Inquiry on the Construction Industry continues to make headlines in Quebec and across Canada. In his presentation, the representative of the Ordre des ingénieurs du Québec (OIQ) will summarize the schemes revealed to date by this commission and the involvement of certain engineers in them. He will review the reactions of the various actors (governments, consulting engineering firms) and give a detailed account of the many actions taken by the OIQ with its members, firms, the government, the media and the commission in an effort to restore public confidence in the profession. No province is entirely safe from these schemes and all provincial associations should learn lessons from Quebec's experience.



Presented By:

Stéphane Bilodeau, Eng., Ph.D

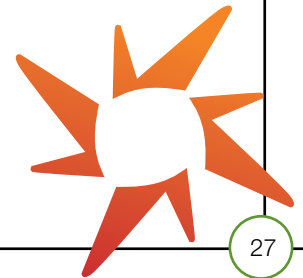
As President of Groupe Énerstat Inc. since 1996, he has led a team that develops and produces a range of energy management systems that use phase change

materials to recover and store energy. As part of his duties, he has authored many national and international patents and trademarks.

Mr. Bilodeau, who has a Ph.D. in Mechanical Engineering (thermodynamics), also oversees the development of a thermal storage technology using phase change material (which received the ASHRAE Technology Award in 2007 and the AQME's Technological Innovation Award at its Energia Gala in 2006) and of Novacab technology, which was recognized by the Society

for Automotive Engineers (SAE) as state-of-the-art technology for heating and air conditioning in special vehicles (long-haul trucks, alternative fuel vehicles, etc.).

As associate professor and lecturer at the Faculty of Engineering of the Université de Sherbrooke, he has taught applied thermodynamics, energetics and heating and air conditioning for over 15 years. He was formerly employed by General Motors, where he worked in the area of thermal systems.



Taking the Dread Out of Networking

Most people don't get overly excited about networking events because chitchatting with strangers can be rather awkward and uncomfortable. Those that master the skill of "working a room" find themselves as key leaders and points of contact for friends, colleagues, and clients. This session will present some Do's and Don'ts for networking and teach you some techniques to be more confident, approachable, and effective at this all-important business tradition.



Presented By:
Lisa Moretto

Lisa is the President of RGI International, Inc. with offices in Winnipeg, MB and Rochester, NY. She has 20 years experience teaching business and technical communication courses for government

agencies, private corporations, consulting firms and professional societies. Her courses consistently receive positive reviews. She is an engaging and interactive presenter and a frequent invited speaker at international conferences.

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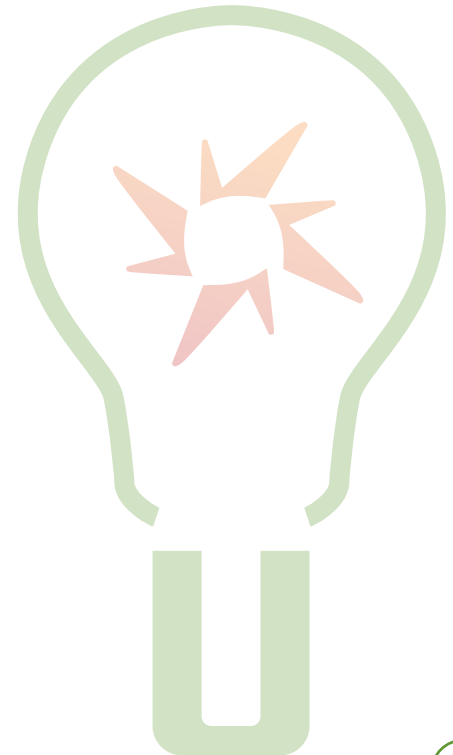
an MS in User Interface Design from the London (England) Guildhall University.

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MTS/Allstream, and several engineering firms including Genivar, KGS Acres, and Tetra Tech/Wardrop.



Public Interest Review Committee

This session will include an overview of the role of the newly instituted Public Interest Review Committee (PIRC), established by APEGM's Proposed Advocacy Framework. The session will also include a discussion on the likely types of issues that could be submitted from stakeholders outside of APEGM for review and assessment by the PIRC. A discussion will also take place exploring potential advocacy issues initiated internally by APEGM, in fulfillment of its obligations to protect the public interest.



Presented By:

Roger Rempel, P.Eng. FEC

Roger Rempel has over 20 years of experience in environmental assessment, quantitative risk assessment, criticality assessment, environmental systems modeling in air and water

quality, and public communications.

He has contributed to and managed multi-disciplinary study teams applied to a range of operations including municipal water and sewer infrastructure, hydroelectric power generation developments, chemical plants, manufacturing facilities and agricultural/food processing plants throughout Western Canada. Roger is an elected Councillor on the APEGM Council.

So, You Have to Give a Talk?

Most people fear delivering a presentation in front of a group. This is true for a short informative presentation at a meeting with peers or for a longer technical presentation to a group of specialists. With a little initial planning and organization, your content will make more sense to your audience and you will have more confidence when you speak. This session will describe a formula for structuring your information, however long the presentation, and provide tips on being a more engaging presenter.



Presented By:
Ann Christoffersen

Ann has been an RGI Consultant for 17 years and has been in the technical communication field since 1990. She has developed and delivered written and oral communication skills courses in both the United States and Canada.

She holds a BS in Computer Science and Mathematics from Clarkson University and has a Masters of Science degree in Instructional and Performance Technology from Boise State University. She is a Certified Human Performance Analyst specializing in Front End Analysis, developing training programs to support major systems acquisitions. Ann is retired from the US Army Reserve, with over 20 years combined service from Active Duty,

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Ann teaches regularly to the General Electric, APEGM, Manitoba Hydro, SaskTel, and TetraTech, an engineering consulting firm. Her teaching experience is extensive, across varied audiences, and she has mentored many other presenters.



How to Avoid Litigation on Engineering Projects

The risk of litigation on all our projects, and the reality of litigation for too many of these projects, is having a pervasive and extremely negative effect on the Public Interest, on our Clients, on the Engineering Profession, and on the practicing professionals in our Province.

In Manitoba we have in place a unique tool which was developed over seven years, involving dozens of stakeholders. The Chair of the APEGM Task Force that developed this tool will take us through the Who, What, Where, When, Why and How of using the Guideline to avoid litigation and resolve disputes before they get to the costly legal stage.

Presented By:

Roy McPhail, P.Eng.

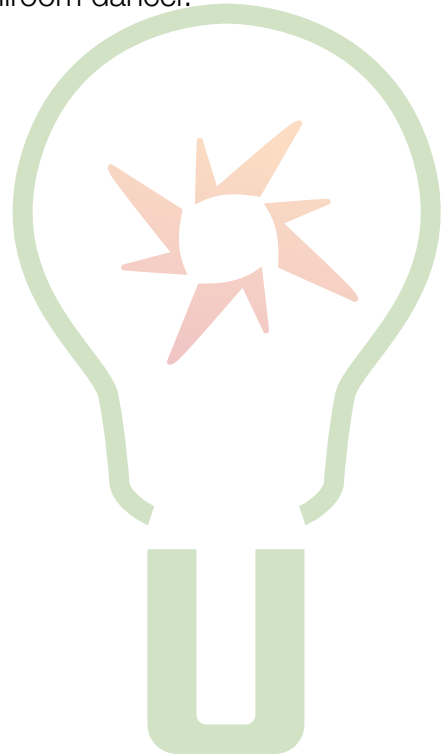
As President of Almitra Consulting Inc. since 1993, President of McPhail Integrated Solutions Inc. since spring 2013, and Chair of the Task Force that developed the Guideline on Conduct of Engineering Reviews, Mr. McPhail comes to the issue of construction litigation with the passion that arises from living through and witnessing the erosion of the systems we have put in place to serve the Public through the practice of engineering.

Almitra has been providing Senior Level Consulting, Forensics, Design, and Design-Build services to a wide range of clients from the Rockies to the Rideau for twenty years. Many of the almost 300 clients are large industrial, institutional, agricultural, environmental or commercial developers.

McPhail Integrated Solutions has added Mentorship, Training and Public Speaking to the portfolio of offerings. It recently contracted with Manitoba Start to deliver weekly workshops and other services to empower immigrant engineers to reach as close as possible to their full potential in contributing to Manitoba's economy. It is also facilitating a Level 2 course for construction supervisors through the Manitoba Construction Sector Council, and is available to be the Reviewer envisaged by the Guideline referenced above.

Mr. McPhail's background also includes ten years as Chair of the Manitoba Mining Board, where he presided over a number of regulatory hearings and wrote the subsequent decisions. He participated on the sub-committee of the Building Standards Board that reviewed the Manitoba Energy Code, and currently sits on the Boards of St. Paul's College, St. Joseph's Residence, Safety Services Manitoba, and the Roman Catholic Archdiocese of Winnipeg

Cemetery Board. He is a judge for the Building Owners and Managers Association annual competition and a proud grandparent, parent, husband and ballroom dancer.



Conflict Management: How to Prevent, Contain, and Resolve

Conflict doesn't have to be a bad thing. Many creative solutions have been a result of differing opinions. If a team agrees 100% of the time, then someone is hiding something. This session introduces the signs and effects of conflict and presents strategies on how to turn what may feel like a negative situation, into a neutral (or possibly a positive) situation. Participants will be exposed to the Third Side concept of conflict resolution and the different roles and contributions parties bring to the situation. The Third Side is an outcome of the Global Negotiation Project at Harvard University.



Presented By: **Lisa Moretto**

Lisa is the President of RGI International, Inc. with offices in Winnipeg, MB and Rochester, NY. She has 20 years experience teaching business and technical communication courses for government

agencies, private corporations, consulting firms and professional societies. Her courses consistently receive positive reviews. She is an engaging and interactive presenter and a frequent invited speaker at international conferences.

She has experience as an Information Developer for IBM in the US and as a Learning Products Engineer for Hewlett-Packard in the UK. Lisa holds a BS in Technical Communication from Clarkson University, Potsdam, New York, and an

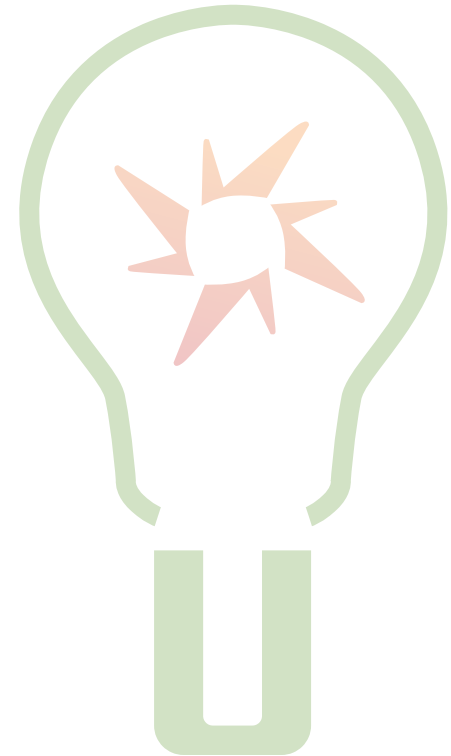
MS in User Interface Design from the London (England) Guildhall University.

She has co-authored four books with Ron Blicq: *Get to the Point!*, *Guidelines for Report Writing*, and *Technically Write!* with Prentice Hall, and *Writing Reports to Get Results* with the IEEE Press.

Lisa is an adjunct professor at the Rochester Institute for Technology, where she teaches Technical Writing, Business Communication, and Effective Technical Communication. She is the Immediate Past President of the Rochester Engineering Society and contributes a monthly article to the RES Magazine. She is an active member of the Society for Technical Communication and the IEEE Professional Communication Society.

She has presented to various industries and organizations throughout Manitoba including Manitoba Hydro, Cangene, Richardson International, Health Canada, Cargill, APEGM,

MTS/Allstream, and several engineering firms including Genivar, KGS Acres, and Tetra Tech/Wardrop.



Thursday, October 24

Partners Program

The Forks

10:30 a.m. - 2:00 p.m.

Casual Dress

Pre-Registration Required

The Partners Program runs during the same time as the professional development conference to provide activities and networking opportunities for the companions of Ingenium attendees.

10:30 a.m. Transportation from Fort Garry Hotel
to The Forks

12:30 p.m. Lunch at Ba Ja Beach Club

2:00 p.m. Return to Fort Garry Hotel

The Forks

One of the loveliest public spaces in Winnipeg and a must-see for any visitor. The Forks is an exquisite riverside attraction in the heart of downtown featuring a wonderfully eclectic market and a wide variety of restaurants and entertainment opportunities - Winnipeg's most exciting and culturally diverse venue!



Friday, October 25

Annual General Business Meeting

Crystal Ballroom, The Fort Garry Hotel

8:30 - 10:30 a.m.

222 Broadway

Winnipeg, MB R3C 0R3

Business casual dress

Complementary, Pre-Registration Required

The Business Meeting will break at 12:00 and re-convene at 2:00 p.m. if needed.

The Annual General Meeting of the professional members of the association shall be held in the Province of Manitoba on any date after September 10th, but prior to October 31st, in each year as council may decide. Temporary licensees, specified scope of practice licensees, members-in-training and students are entitled to attend and participate subject to restrictions in the association By-laws. Members of the public, subject to application to the registrar and the availability of space, are entitled to observe.

Partners Program

FortWhyte Alive

10:00 a.m. - 2:00 p.m.

The Partners Program runs during the same time as the annual general business meeting, to provide activities and networking opportunities for the companions of Ingenium attendees.

Casual Dress

Pre-Registration Required

10:00 a.m. Transportation from the Fort Garry Hotel to FortWhyte Alive

12:30 p.m. Lunch at The Buffalo Stone Cafe

2:00 p.m. Return to Fort Garry Hotel

FortWhyte Alive

FortWhyte Alive is a privately operated, non-profit project of the Fort Whyte Foundation Inc., promoting awareness and understanding of the natural world and actions leading to sustainable living. FortWhyte Alive is privately funded, relying on generous support from every sector of our

community, including businesses, foundations, individuals and government.

Inspired by our mandate and committed to our community, FortWhyte delivers four main program streams: school programs, outdoor recreation, public programs for all age groups, and FortWhyte Farms' ground-breaking social enterprise program for inner-city youth.

FortWhyte Alive includes outdoor activities on their five lakes, multiple trails and exhibits, and floating marsh boardwalks; Reception Centre with Bullalo Stone Café and the Nature Shop; Interpretive Centre with the Kiwanis Touch Museum, Aquarium of the Prairies, Prairie Soil Diorama, Planet H2O, and Prairie Partners Live Exhibit.

Awards Gala Dinner and Dance

Grand Ballroom, Fort Garry Place

5:30 p.m. - 12:30 a.m.

Entrance through the 1st floor of The Fort Garry Hotel

222 Broadway

Winnipeg, MB R3C 0R3

Tel: (204) 942-8251

Fax: (204) 956-2351

Toll-free: 1-800-665-8083

Tickets Required

Black Tie Dress Recommended

Awards Being Presented

Team Achievement Award

Professional-In-Training Award

Early Achievement Award

Champion of Engineering Education Award

Outstanding Service Award

Honourary Life Membership Award

Leadership Award

Entertainment

Ron Paley Big Band

Pianist, electric bassist, and composer, Ron Paley formed the Ron Paley Big Band in 1976 after playing with the big bands of Buddy Rich and Woody Herman, with whom he recorded two CD's and played on a Frank Sinatra album. He has recorded two big band albums, one trio album, and is completing work on a big band musical.

The big band has performed in concert with the Winnipeg Symphony Orchestra, and played a concert of "new music" sponsored by Winnipeg's new music concert organization "Groundswell". In 2002 Ron was commissioned by the Royal Canadian College of Organists to compose a work for choir and organ based on the text of Psalm 122. This was followed by a commission from the National Arts Centre to write a fanfare for the Toronto Symphony Orchestra for the Royal Visit. In 2004 the

big band performed and toured with the Royal Winnipeg Ballet, playing jazz arrangements of songs by Rogers and Hart for "A Cinderella Story". In 2007 Ron was commissioned by the Winnipeg Singers to write a choral work using the text of 3 of Shakespeare's sonnets.



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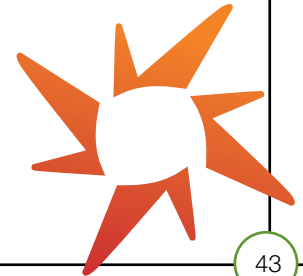
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Where great minds meet to form great ideas.



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