



APEGNB

# PROFESSIONAL DEVELOPMENT PROGRAM

FEBRUARY 15-18, 2022

ENGINEERS  
GEOLOGISTS  
*New Brunswick*



INGÉNIEURS  
GÉOSCIENTIFIQUES  
*Nouveau-Brunswick*

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# 2022 AWARD RECIPIENTS RÉCIPIENDAIRES DES PRIX 2022



**C.C. KIRBY AWARD**

**PRIX C.C. KIRBY**

Clayton Barclay, PhD., P.Eng.

**PRESIDENTS AWARD  
PRIX DES PRÉSIDENTS**

Iris Auclair-Bernard, P.Eng., FEC



**OUTSTANDING EDUCATOR AWARD  
PRIX DE L'ÉDUCATEUR EXCEPTIONNEL**

Dr. Bruce Broster, Ph.D., P.Geo., FGC, FEC (Hon)

**WOMEN IN ENGINEERING AWARD  
PRIX DES FEMMES EN GÉNIE**

Amy Winchester, M.A.Sc., P.Eng.



# SPEAKER BIOGRAPHIES & PROGRAM DESCRIPTIONS

**TUESDAY  
FEBRUARY 15**



**PDH**  
*Informal*  
**0.5**

## **9 A.M.** **THE IMPACTS OF WORKPLACE FATALITIES**

Eric Brideau (Worksafe NB)

*This presentation will provide an overview of WorkSafeNB's investigation process. If you have never faced an investigation, you need to know what to expect. This session will address topics such as what is WorkSafeNB, what is the role of regulatory investigation, and what type of evidence is collected in such an investigation. Be prepared in advance for any eventuality.*

Eric Brideau has a bachelor's degree in Forestry from the Université de Moncton with over 20 years of working experience. His latest work experience is with WorkSafeNB as the acting Director of Compliance and Regulatory Review. During his 11 years with WorkSafeNB, Eric also took on the role of Health and Safety Officer, Engineer, Regulatory Review Officer, and the Assistant Director of Investigations. Eric is bilingual with a wide range of health and safety, inspection and incident investigation experience, administrative law, regulatory change, and training development experience. He currently resides in Moncton, New-Brunswick.



**PDH**  
*Informal*  
**0.5**

## **10:30 A.M.** **PROTECTING YOUR PEOPLE: PSYCHOLOGICAL SAFETY: THE PATH TO A SAFE WORKPLACE CULTURE**

Nancy Boutcher (WorkSafe NB)

The number one driver of successful teams is psychological safety. Awesome...but...what exactly IS psychological safety (and what does this mean for the workplace?)? In this session, Nancy will draw on her experience in safety leadership, occupational health and safety prevention, and human behaviour to show how it can be done effectively (and highlight how you're likely already doing it!). You'll leave equipped with practical things you can do right away and the confidence to start viewing your workplace through the psychological safety lens.

Nancy Boutcher has spent over twenty years helping organizations create workplaces that promote and protect physical and mental health. The funny thing? She didn't always realize that's what she was doing at the time. She has worked in rehabilitation with people returning to work, in health and safety prevention with employers keeping people at work, and with leaders learning the skills and behaviours required to create cultures where people can be at their best.



PDH  
Informal  
1

## 1 P.M. PROFESSIONAL ETHICS AND TRANSFORMATIVE TECHNOLOGIES

Garth Sheriff, CPA, CA, CIA

*Transformative technologies are defined as tech that can facilitate mental health, emotional wellbeing, and enhanced human thriving. These have also been less optimistically labelled as a disruptive technology. Today, we are beginning to feel the impacts of three transformative technologies within our society:*

- 1. Big data*
- 2. Artificial intelligence*
- 3. Blockchain and cryptocurrency*

*These transformative technologies have the potential to help us in our day-to-day lives. However, there are significant ethical implications to these technologies for:*

- Privacy*
- Professional judgement/critical thinking*
- Environment, Social and Corporate Governance (ESG)*

*This webinar will introduce these transformative technologies and examine their ethical implications.*

Garth Sheriff, CPA, CA, CIA is the founder of Sheriff Consulting, specializing in delivering professional and leadership skills webinars and online courses. Sheriff Consulting's mission is to create a learning environment that is both engaging and impactful to your professional development. Garth has also received training and worked as a professional actor. He is a member of the Alliance of Canadian Cinema, Television and Radio Artists and a graduate in improv from The Second City.



PDH  
Informal  
0.5

## 3 P.M. "SEE SOMETHING, SAY SOMETHING": WHAT TO KNOW ABOUT WHISTLEBLOWER PROTECTION IN ENGINEERING AND GEOSCIENCE

Robert Wilson, HUB International

*Have you ever seen something and wondered if it was being done correctly? What is your responsibility in ensuring that projects are performed to appropriate standards, and what do you do if they are not? This session will provide you with a brief overview of the coverage included in Secondary Professional Liability Coverage, with a deeper focus on the whistleblower provisions and implications. Learn about recent engineering and geoscience cases that were (and were not) covered by the insurance program. Gain a better understanding of what might happen if you decided to report a breach, and how you are covered in that case.*

Robert Wilson is a registered insurance broker in several Provinces and has extensive experience in both Insurance Brokering and Reinsurance sectors dating back to 1976. As a founding member of Pro-Form Insurance Services in November 1991, Robert is Executive Managing Director of the company and with his colleague maintains responsibility for the daily operation of the firm, including actively handling his own book of business and serving his own clients. In his role as Executive Managing Director, he reports directly to the Hub Executive Committee.

**PDH**  
*Informal*

**0.5**

## **10 AM PANEL DISCUSSION** **NEW BRUNSWICK'S ENERGY FUTURE: WHAT THE FUTURE HOLDS**

Moderator: Colleen d'Entremont, President, Atlantica Centre for Energy

*This panel will explore and discuss non-emitting energy innovation potential in New Brunswick. Challenges, opportunities and the path towards Net-Zero in New Brunswick.*



Gilles Volpé is the Vice President and General Manager of Liberty New Brunswick, the province's public natural gas distribution utility. A graduate of the University of New Brunswick, Mr. Volpé was recently honoured as one of the Top 50 CEOs in Atlantic Canada. He has successfully led the natural gas distribution utility through its strongest growth year in 7 years, as well as reducing the total cost of natural gas for its customers by a remarkable 35% since 2014. He is a member of the Board of Directors of the Canadian Gas Association, the Atlantic Hydrogen Alliance, and the Conseil Economique du Nouveau-Brunswick.



Brad Coady, P.Eng. is the Executive Director of Business Development & Strategic Planning at NB Power. He oversees the utility's integrated Resource Planning and a variety of Corporate Business Initiatives. His areas of responsibility include Rates Modernization, Corporate Strategic Planning, and Environment Services. Mr. Coady is currently a member of the Board of Directors for the Atlantica Centre for Energy (ACfE). Prior to joining NB Power, Brad worked at Newfoundland and Labrador Hydro. He has a Bachelor of Engineering (Electrical) and Master of Business Administration from Memorial University.



Robert Apold is Principle of Natural Forces with over 21 years of experience in developing, operating and constructing Renewable Energy project. Robert an engineering graduate of UNB, currently leads Natural Forces, a Maritime based and owned renewable energy company which focuses on bringing clean green renewable sources of power with community partners to help fight the climate crisis. He has developed projects across Canada, the United States and Europe, with a focus on Atlantic Canada where he has been a part of over 400 MW of Maritime based wind projects. Based in Halifax, Nova Scotia, Robert continues to drive his passion of community-lead renewable energy projects and is inspired by the impact that renewables can have not only to our environment but our communities.



Ryan Mitchell, P.Eng. is currently the Vice President and Chief Development Officer of Saint John Energy. Ryan is a graduate of NBCC and UNB. Ryan is a registered engineer in New Brunswick and has an MBA. Ryan has over 20 years of engineering experience in diverse and progressive management positions with most of his experience coming from the telecommunications sector. Ryan has also been named to Canada's Clean50 list as one of Canada's top sustainability leaders in 2021.



Andy Hayward, P.Eng. is the Chief Nuclear Engineer at Point Lepreau Nuclear Generating Station and Director of Advanced Reactor Development. He has been with Point Lepreau for 14 years in various managerial capacities. Prior to that Andy worked in the specialty cellulose industry up to and including general management of a mill complex in northern Quebec and was involved in construction and commissioning of two conventional power generation facilities.



### 1 P.M. CRITICAL METALS/MINERALS RESOURCES FOR THE GREEN FUTURE: NB IN THE SCOPE OF DOMESTIC AND INTERNATIONAL RESOURCES

Dr. David Lentz, P. Geo, UNB

David R. Lentz received his B.Sc. (1983) and M.Sc. (1986) degrees in geology from the University of New Brunswick (UNB) in Fredericton. He completed a PhD (1992) at the University of Ottawa and then worked with the Geological Survey of Canada for three years. Since 2000, he has held the Research Chair in Economic Geology at UNB, with a research focus on the petrogenesis of ore deposits and has been a P. Geo since 2001. Recently, Dave has been awarded GAC's Distinguished Service Award, The New Brunswick Association of Professional Engineers & Geoscientists Loring Bailey Geoscience Award, the Atlantic Geoscience Society's Gesner Medal, CIM's Julian Boldy Award, and IAGOD's International Distinguished Lecturer Award, and is a Fellow of Geoscientists Canada.

PDH  
Informal  
0.5



### 3 P.M. THE PAST, PRESENT, FUTURE OF SARS-COV-2 TESTING IN WASTEWATER

Karim Fagir, EIT and Chris Mackin, EIT

*A discussion of the past, present and future of SARS-CoV-2 wastewater sample collection, sample preparation, and results analysis.*

Karim Fagir, EIT is a Technical Sales Specialist for LuminUltra's Industrial Sector. Assisting facilities serving oil and gas, pulp and paper, wastewater, and cooling water applications by implementing microbial monitoring solutions.

Chris Mackin, EIT is a Product Development Engineer (in training) on the Research and Development team at LuminUltra, working on transitioning new devices through the R&D process and into commercialization for our water testing customers.

PDH  
Informal  
0.5

THURSDAY  
FEBRUARY 17



PDH  
Informal  
0.5

## 10 A.M. **PRESENTED IN FRENCH** LEADING THE WAY IN CLIMATE ADAPTATION

Serge Dupuis, ing.

*New Brunswick has it all: inland and coastal flooding, ice storms, heat waves and extreme winds, just to name a few. Our engineers are accustomed to designing, building and protecting critical infrastructure with the tangible effects of a changing climate in mind. Important adaptation projects are being completed throughout New Brunswick with many more initiatives to come. One example is the "Climate Change Adaptation Capacity Building for New Brunswick Engineers" project. With the development of training and resources, New Brunswick engineers are better equipped to advance climate adaptation within the province and be leaders in this field throughout Canada. "New Brunswick Engineers leading the way in climate adaptation": future headline or just a dream?*

Serge Dupuis is an Assistant Professor with the Civil Engineering Department of Université de Moncton, specializing in construction and project management. In 2019, Mr. Dupuis was elected the 100th President of APEGNB. Mr. Dupuis is presently the project lead on a 3-year project entitled "Climate Change Adaptation Capacity Building for New Brunswick Engineers" in partnership with Natural Resources Canada's BRACE program.

**FRIDAY  
FEBRUARY 18**



**PDH**  
Informal

**1**

## **10 A.M. KEYNOTE SPEAKER** **HUMANITY AT WORK IN TURBULENT TIMES**

Pierre Battah

*Many of us are experiencing new ways of working. Pandemics, sweeping workplace transformations or changes to our roles and processes or the people on our teams and how we work with them can create turbulence.*

*Healthy workplace teams minimize distraction and disruption, deliver high-quality results and create productive and sustainable relationships. It leads to getting on the same page more easily, problem-solving more effectively and innovating more. Healthy teams create conditions that are safe and favorable to inclusion and inhospitable to inappropriate behavior. They also lead to achieving and exceeding individual and team expectations.*

*This highly interactive presentation will share practical workplace tips and lessons that will help participants to better:*

- *Identify how to work well as a member of a virtual or remote, hybrid or co-located teams;*
- *Interpret the science of positivity and “paying attention” to better receive and offer feedback with colleagues; and*
- *Describe how to contribute to a learning culture defined by better problem solving, greater engagement and a climate of progress and improvement.*

Pierre Battah is an award-winning author and workplace leadership specialist. He is a long-time workplace columnist for CBC/Radio-Canada, a TEDx presenter, a former senior manager in HR and was previously an associate professor in management. Pierre holds an MBA and several professional designations. His book *Humanity at Work, Leading for Better Relationships and Results* was released internationally and won gold at the 2020 Nautilus Book Awards in the US.

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