

FALL 2023

ENGEOActions

THE NEW BRUNSWICK SOURCE FOR ENGINEERING AND GEOSCIENCE NEWS

A LOOK INSIDE THE NEW ENGINEERING COMMONS

The renovation and expansion of Head Hall at the UNB Fredericton campus is a project that will create a cutting-edge, sustainable space for learning, collaboration and innovation.

BUILDING THE FUTURE: LEARN
MORE ABOUT THE 2023-2026
APEGNB STRATEGIC PLAN



APEGNB FOUNDATION FOR EDUCATION
RECEIVES GENEROUS GIFT

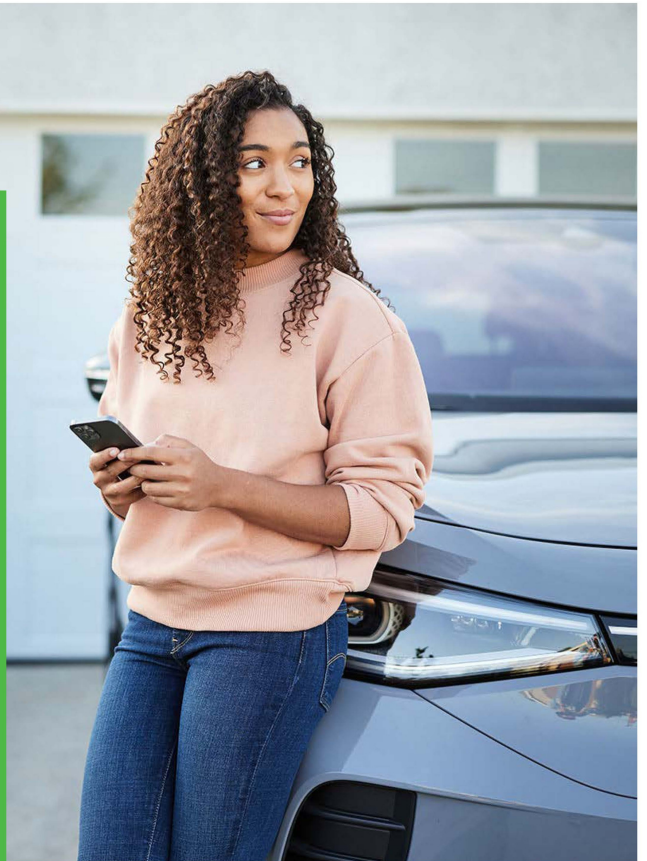


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ENGEOActions

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A new program offered by APEGNB to facilitate connections between MITs and Professionals.

Message from the President

I want to express my profound gratitude and admiration for the dedication and hard work of our association's staff and volunteers in recent months. Your tireless efforts have been the driving force behind our remarkable progress, and I cannot overstate their importance.

Our volunteers play a pivotal role in modernizing and advancing our organization. Thanks to you, we can adapt to the ever-changing landscape of our field, remain relevant, and continue making a positive impact.

We have just completed our new three-year strategic plan, focusing on four key pillars:

- 1. Member Experience:** Enhancing member engagement, satisfaction, and value, ensuring safety, and promoting a culture of knowledge sharing and continuous learning.
- 2. Sustainability:** Committing to responsible and ethical practices, integrating sustainability into operations, and contributing to a resilient future.
- 3. Stakeholder Engagement:** Improving relationships with stakeholders, understanding their needs, and collaborating for regulatory harmonization and excellence.
- 4. Risk Management:** Proactively addressing potential risks and protecting the interests of our members and the public, especially in the context of emerging technologies like AI.

We've taken concrete actions based on these pillars, such as launching a modernized registration system, implementing lean management practices, and enhancing harmonization with sister regulating bodies.

As President, I want to stress the importance of our new strategic plan, which embodies our association's top priorities.

This plan serves as our guiding light, ensuring that we focus our efforts where they matter most. It's crucial that we make this plan our top priority, as it directs us toward our key objectives and allows us to allocate our resources effectively. By embracing this plan, we can enhance our efficiency and work together for the betterment of our Association, the safety and protection of the public and the communities we serve.



Raphaël Roy, P.Eng.

As we navigate our path forward, engineers and geoscientists have the power to shape the future, drive innovation, and make a lasting societal impact. Together, as a united team and family, we can overcome any challenge and achieve even greater heights.

To our dedicated staff and volunteers, I extend my heartfelt thanks. I want to emphasize just how crucial our volunteers are to the modernization and advancement of our organization. Your selfless contributions, whether it be through your time, skills, or expertise, have been invaluable.

Together, we are creating a brighter future.

With gratitude,

A handwritten signature in dark ink, reading 'Raphaël Roy' in a cursive script.

RAPHAËL ROY, P.ENG.

President, APEGNB

president@apegnb.com

p.s. – If you want to make a difference, please volunteer with your Association. Feel free to send me an email to find out more.

Message from the CEO and Registrar

Over the summer months, APEGNB worked with a consultant to develop a new strategic plan for 2023-2026. This endeavor built upon the foundation laid by the preceding plan that had been developed pre-pandemic.

The 2020 plan progressed well over the past three years with some tweaks along the way as the regulatory environment changed around us. Among the substantial outcomes stemming from the previous plan was a comprehensive public survey gauging perceptions of the professions, the data of which paved the way for the creation of the "Touching Lives" marketing campaign. Council also received two consulting reports: one on the economic impact of the professions in New Brunswick and an updated risk assessment of the organization. The Economic Impact report has been useful in clarifying the importance of the professions when speaking with stakeholders such as government officials. The risk assessment confirmed the progress that has been made within the organization and was an important tool for Council to ensure Directors are meeting their fiduciary responsibilities in governing the organization on behalf of the registrants.

However, APEGNB's strides don't stop there. The future looks bright as we continue nurturing relationships and making inroads with diverse stakeholders including government and the Anglophone, Francophone and First Nation education systems. Plans to modernize CPD requirements and better integrate internationally-trained professionals promise an enriched professional landscape to come.

The 2023-2026 plan is framed around four core pillars: Member Experience, Sustainability, Stakeholder Awareness, and Risk Management.

The "Member Experience" priority is designed to ensure a more efficient licensing process that is clear for applicants and eliminates delays where possible. Furthermore, this priority is committed to recognizing and minimizing potential barriers faced by equity-seeking groups. A central aspect of this priority is the harmonization of interprovincial services, beginning with a collaborative launch of a new CPD program spanning all four Atlantic provinces in the coming months.

Under the pillar of "Sustainability", APEGNB will continue to educate youth about the professions. In addition, Council is exploring the value of a 'non-practicing' category of registrants. We will continue to keep a focus on emerging practices, and the introduction of a limited license opens dialogue about the seamless integration of internationally-trained professionals into the provincial workforce.



Lia Daborn, CAE

The third priority, "Stakeholder Awareness", will continue to build on our existing relationships with universities, government, regional branches, and other key organizations. We will also focus on educating the public about the role of APEGNB in licensing and regulating members of the professions, including the complaints process.

The final priority, "Risk Management", also focuses on the licensing process identified under "Member Experience" as well as ensuring that APEGNB is meeting all government requirements and legislation respecting licensing timelines and reducing barriers to licensure. APEGNB will also work to mitigate the effect of unauthorized practices, whether by unlicensed individuals or by unregistered firms practicing in the province. As part of an effort to reinforce accountability, the reporting of complaints and subsequent disciplinary actions will be reviewed and strengthened. APEGNB Council also identified data management as a risk that must be addressed to ensure appropriate protection and management of applicant information.

Work has already begun on several of the initiatives noted in the plan. In August, Council met with key volunteers responsible for licensing and admissions to discuss the current processes and consider how to address the potential changes that may be required as a result of the *Fair Registration Practices in Regulated Professions Act* (Bill 118). APEGNB aims to be a leader in this area, drawing insights from comparable experiences in other jurisdictions. The objective of this particular conversation was to identify avenues for enhancing processes without compromising public safety. This ongoing endeavor is supported by an expanded Registration Department staff and integrated technological solutions to streamline the application process.

This plan, built upon the lessons of the previous one, showcases APEGNB's commitment to progress and adaptation. The plan is more than words on paper – it's a commitment to advancing the professions we serve. It is a roadmap that can be adjusted as necessary as new information becomes available or as situations change.

Make sure to read more about your strategic plan on page 18. With regular updates, widespread sharing (including a presentation of the plan at the Annual Meeting in February), and a President ready to engage, the organization aims to empower both its registrants and the community. This strategic roadmap isn't just about the next few years; it's a reflection of APEGNB's dedication to a thriving professional future.



LIA DABORN, CAE

CEO and Registrar, APEGNB
lia@apegnb.com

ENVIRONMENTAL IMPACT ASSESSMENT - ADVANCED SMALL MODULAR NUCLEAR REACTOR

We want your input.

ABOUT THE PROJECT

NB Power is undergoing a Comprehensive Environmental Impact Assessment (CEIA) review for the proposed installation of an ARC Clean Technology advanced small modular nuclear reactor (the project) at the Point Lepreau Nuclear Generating Station in southern New Brunswick.

THE COMPREHENSIVE ENVIRONMENTAL IMPACT ASSESSMENT

The CEIA is a five-step review process that allows members of First Nations and the public to provide their input at various stages of the review.

SHARE YOUR INPUT

Starting on September 28, 2023, members of First Nations and the public can participate in the first step of the review - **providing input to the creation of the Environmental Impact Assessment (EIA) guidelines**. These project-specific guidelines will address the scope of the EIA study. This input window will last 30-days and end on October 28, 2023.

SCAN HERE FOR MORE INFORMATION AND TO PROVIDE INPUT.



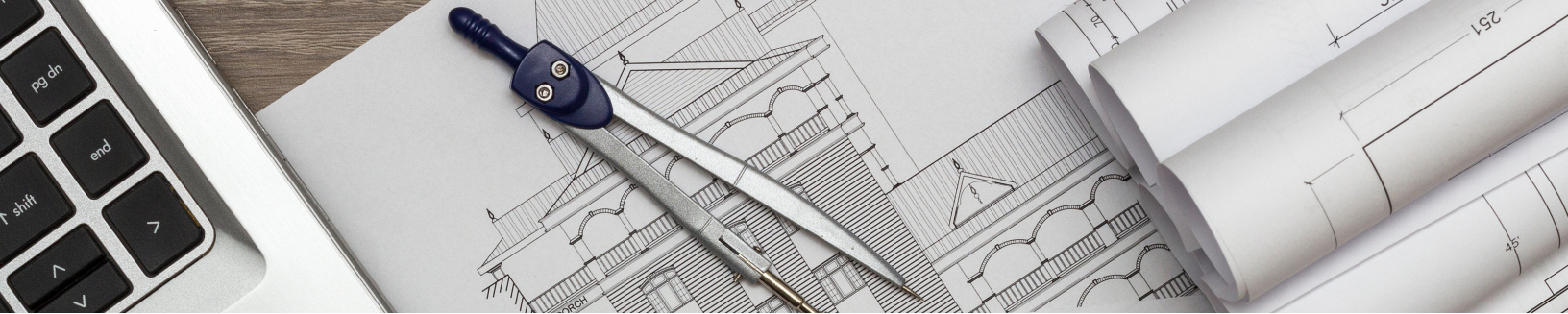
It is anticipated the final guidelines will be posted online no later than **November 27, 2023**.



TO LEARN MORE

Visit: [GNB.CA/Environment](https://gnb.ca/Environment)
Call: (506) 453-2123
Email: EIAEIE@gnb.ca





APEGNB DISCIPLINE DECISIONS

Under the *Engineering and Geoscience Professions Act* and its By-Laws, APEGNB carries out enforcement activities against individuals or entities that use protected titles, represent themselves as entitled to practice, or practice engineering or geoscience in the province of New Brunswick without being registered.

Upon evidence of a violation, the individual or entity is informed of the violation, told how to come into compliance and is given suitable time to comply. If requests for compliance are ignored, APEGNB can take legal action. The penalty for a first-time violation may carry a fine of up to \$10,000.

RECENT PUBLIC DISCIPLINE NOTICES

December 1, 2022

➔ In the Matter of a Complaint Pursuant to the Engineering and Geoscience Professions Act on December 1, 2022, a Discipline Committee Panel of the Association of Professional Engineers and Geoscientists of New Brunswick (APEGNB) met with respect to a Complaint involving the design and construction of two buildings for commercial purpose (one being an A2 classification).

Three issues of alleged professional misconduct, including negligence, in the practice of Professional Engineering were identified as:

1. Affixing of an Engineer's seal to an architectural design for an A2 building in violation of the Guidelines for Development and Maintenance of the Professional Relationship Between Architects and Engineers (Guidelines);
2. Affixing of an Engineer's seal to designs which do not conform to the National Building Code of Canada's standards regarding occupant load for the purpose of avoiding installing a fire alarm system; and
3. Providing advice to a client that submission of designs to the Office of the Fire Marshal was not required.

The Committee's focus in this matter is whether the Guidelines were breached. In analyzing this issue, the Committee considered that the Guidelines are a professional standard and not optional or suggestive in nature. In this case the question of if there has been a breach of the Guidelines will depend on if:

1. There is an exception for an architect in the design of an A2 structure; and
2. The exception (if it exists) applies to the Respondent.

The Committee's review of the Guidelines (specifically Table 1) leads to a determination that there is an exception. The Guidelines state that an engineer is "qualified" to perform services in the practice of architecture on "general review" (Note: nothing in Section 6{c} prohibits the application of a stamp).

In this matter, the Committee accepted that the engineer has considerable experience in design and that their engagement was exclusively for the purpose of the client obtaining a building permit and thus a general review.


Based on the wording of the Guidelines, the Committee is unable to conclude that the engineer breached a professional standard or that they should be subject to professional discipline.

The Guidelines clearly contemplate an exception to the mandatory involvement of architects and engineers and absent clarification to the contrary, the interpretation of the engineer is reasonable.

This decision, however, does not mean that the Committee would come to the same conclusion if the scope of the work or the qualifications of an engineer were different from the facts it heard in this matter. Put another way, should an engineer engage in a different scale of work with different or insufficient qualifications, discipline may result.

For the reasons outlined above, the Complaint is dismissed and a summary of the reasons, without reference to the Respondent's identity or geographic location, are directed to be published in the Association's publication and website.

June 6, 2023

 In a June 6, 2023, Voluntary Agreement, Tiago A. P. Caldas, P.Eng., admitted that he demonstrated unprofessional conduct by practicing the Profession of Engineering in the Province of New Brunswick without a license and stamped drawings with an expired Stamp.


On April 24, 2023, Mr. Caldas signed and affixed his seal dated 2017 to design drawings for a roof barrier in New Brunswick. The minimal requirements for the voluntary resolution, being offered and accepted on the basis that Mr. Caldas' failure to obtain a license was his oversight without any malice or ill intent, are as follows:

Mr. Caldas shall:

1. Provide an Affidavit to APEGNB confirming that he was licensed and in good standing in the Province of Ontario and list any other Canadian jurisdictions where he was licensed between January 1, 2021 through 2023;
2. Confirm all work conducted for application in the Province of New Brunswick between January 1, 2021 through 2023;
3. Confirm that he has contacted all clients listed in the above subparagraph (ii) and that he has advised each client that although he was qualified to perform services in the Province of New Brunswick, that he was not licensed, and he will provide any reviews of work necessary for his clients at no cost;
4. Confirm that any "stamps" representing to be issued by APEGNB in 2021, 2022, and 2023 have been destroyed;
5. Pay all outstanding fees for the years 2021, 2022, and 2023;
6. Voluntarily pay a fine to APEGNB in the amount of \$2,500.00; and
7. Consent to APEGNB making public notification on its website and members communications of the Complaint and this resolution.

On June 7, 2023, APEGNB received an Affidavit confirming that Mr. Caldas agreed with the above terms. All outstanding fees for 2021, 2022 and 2023 were paid, as well as the \$2,500.00 fine.

June 16, 2023

 In a June 16, 2023, Voluntary Agreement, Mark Peric admitted that he demonstrated unprofessional conduct by practicing the Profession of Engineering in the Province of New Brunswick without a license and stamping drawings with a Seal not authorized or issued by APEGNB.

On February 10, 2023, Mr. Peric signed and affixed a seal with a modified date of 2023 to electrical design drawings for a project in Moncton, New Brunswick.

The Agreement is particularized as follows:

Mr. Peric shall:

1. Provide an Affidavit to APEGNB confirming that he was licensed and in good standing in the Province of Ontario and list any other Canadian jurisdictions where he was licensed between January 1, 2021 through 2023;
2. Confirm all work conducted for application in the Province of New Brunswick between January 1, 2021 through 2023;
3. Confirm that he has contacted all clients listed in the above subparagraph (ii) and that he has advised each client that although he was qualified to perform services in the Province of New Brunswick, that he was not licensed, and he will provide any reviews of work necessary for his clients at no cost;
4. Confirm that any "stamps" representing to be issued by APEGNB in 2021, 2022, and 2023 have been destroyed;
5. Pay all outstanding fees for the years 2021, 2022, and 2023;
6. Voluntarily pay a fine to APEGNB in the amount of \$2,500.00; and
7. Consent to APEGNB making public notification on its website and members communications of the Complaint and this resolution.

On June 9, 2023, APEGNB received an Affidavit confirming that Mr. Peric agreed with the above terms. All outstanding fees for 2021, 2022 and 2023 were paid, as well as the \$2,500.00 fine.

A man and a young girl are smiling and looking at a small robot they are holding together. The robot has a green propeller and some wires. The background is a blurred indoor setting.

Help Design the Future of your Profession

APEGNB COMMITTEES ARE LOOKING FOR YOU!

**As a volunteer, you are a key part
of the self-regulation of
engineering and geoscience.**

Are you interested in ensuring only qualified applicants become members? Do you want to mentor and share your expertise with fellow registrants? Do you believe in the importance of being a role model for the next generation? If you said yes to any of the above, we have volunteer opportunities for you.

Learn more

For the terms of reference & a complete
list of our committees, please visit:

www.apegnb.com

OR CONTACT US : 1-888-458-8083 | INFO@APEGNB.COM



VISITORS LEARNED THROUGH INTERACTIVE GAMES AND DEMONSTRATIONS WITH SCIENCE EAST, MINING MATTERS, QUARTERMAIN EARTH SCIENCE CENTRE, AND UNB ENGINEERING TO NAME A FEW.

WELCOMING BACK NEW BRUNSWICK MINING WEEK

Content and event photography submitted by: Ann C. Timmermans, Associate Teaching Professor/Curator
University of New Brunswick, Department of Earth Sciences

It has been several years since New Brunswick was able to focus on engaging the public in celebration of Canada's National Mining Week. Across Canada, public events took place from May 8 to May 12 highlighting the innovations and discoveries made by the mining industry. More and more, geological professionals and educators are seeking to engage the public by showcasing ideas and methods used to advance the mining and exploration sector.

That is, to engage both consumers and industry to discover and discuss the science, innovation, and technology for sustainable and environmentally sound practices. To build awareness around New Brunswick's mining industry, the Mineral Resources Division of the New Brunswick Department of Natural Resources and Energy Development organized an Open House on May 9th and 10th, 2023, with fun-filled educational activities, interactive demonstrations, and an informative public lecture.

"We last held a similar outreach event approximately 20 years ago at the Hugh John Flemming Forestry Complex," stated Kathleen (Kay) Thorne, Director of New Brunswick's Geological Surveys Branch. "The Pan-Canadian Geoscience Strategy, developed and being implemented by Geological Surveys across Canada, has identified a need to enhance public literacy in geoscience as one of five priority areas to focus our efforts.

"The availability of public geoscience and increasing geoscience literacy among the general public will help address barriers to resource development stemming from misinformation," she explained. "As such, the NB Geological Survey (together with our Resource Development colleagues) decided that it was timely to re-introduce an outreach event to mark National Mining Week aimed at educating students and the general public on the importance of mining, particularly given our increased need for minerals as the world transitions to a green economy."

New Brunswick's abundant reserves of mineral deposits have an opportunity to contribute to Canada's Critical Minerals Strategy that aims to meet the global demand for critical minerals including potash, lithium, copper, zinc, cobalt, nickel, and rare earth

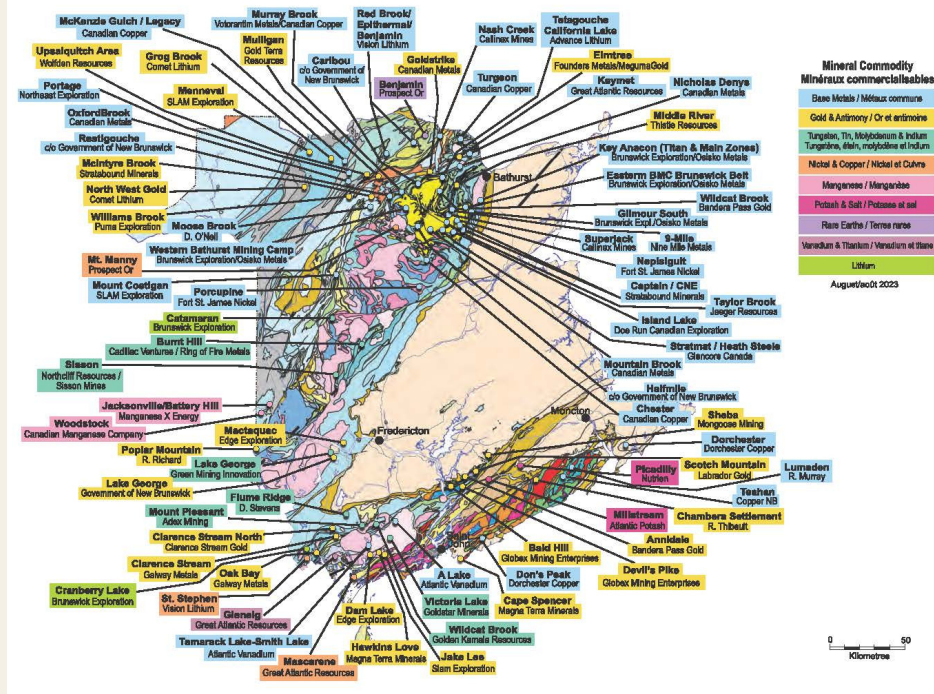
elements. Historically, mining has provided a significant share in New Brunswick's economy. The industry's decline in the 1990s was paralleled with lessening or removing Earth and Space science education (Geology and/or Physical Geography) from New Brunswick schools. There has also been a widening disconnect between consumers and industry regarding engagement involving the need for sustainable mineral resource development as a vital part of our economy and society's growth. For example, the demand for electric car battery materials like lithium, cobalt, nickel, copper, and rare earth elements has significantly increased. The consumer disconnect from the need for sustainable and responsible development of minerals can lead to anti-mining attitudes by community stakeholders and decreasing corporate discourse of sustainability and social responsibility to legitimize mining initiatives.

“Public education events like NB Mining Week are critically important to raising awareness about the role that minerals, metals, and elements play in our daily lives, in sustainability, and in the transition to renewable energy generation.”

Thorne assembled a Local Organizing Committee to prepare and deliver an Open House at the Hugh John Flemming Forestry Centre in Fredericton. The LOC invited geoscience professionals and educators to collaborate and participate, such as Mining Matters, a national charitable organization dedicated to bringing knowledge and awareness about Canada's geology and mineral resources to students, educators, and the general public.

“Public education events like NB Mining Week are critically important to raising awareness about the role that minerals, metals, and elements play in our daily lives, in sustainability, and in the transition to renewable energy generation.” stated Mining Matters Executive Director, Laura Clinton.

“These events provide opportunities for the minerals industry to raise awareness about modern mining practices, including environmental management and sustainability practices, mine reclamation, and the role that innovation and technology, including the Internet of Things and Machine Learning, play in improving health and safety, increasing productivity, and reducing environmental impacts.”



BEDROCK GEOLOGY MAP HIGHLIGHTING EXPLORATION AND MINING PROPERTIES IN NEW BRUNSWICK (GNB)

The lively 2-day event was free for all visitors and offered a broad range of educational displays, activities, and demonstrations involving science, engineering, innovation, and technology related to mining and exploration. During the two days, over 1500 elementary, middle, and high school students, as well as educators, homeschoolers, and members of the public travelled from Fredericton, Nackawic, Saint John, Rothesay, Hartland, and Keswick to participate.

Once visitors entered the large foyer of the Flemming Centre, they were greeted at the Welcome Table with a bag full of fun and informative resources from GNB, APEGNB, and Mining Matters.

Visitors then toured around the complex at their leisure, engaging with professional geologists and educators at the geological survey branch, UNB Science, Engineering, and Sustainability, the Quartermain Earth Science Centre, the Atlantic Geoscience Society, RPC, the Science East Science Centre, and Mining Matters.

Several tables showcased rocks and minerals from New Brunswick, where they are found, how they are processed, their unique properties, and how they connect to the “stuff” we use every day with metal and industrial resources.

Some of the highlights were the many drones with video demonstrations by GNB's Samuel Outhouse, the “Dress-Up as a Miner” station with geologist Steven Hinds, and the “Ask a Geologist” stations with geologists Elisabeth Spatz DiVeto, Michael Parkhill, and many more.

The University of New Brunswick departments of Earth Sciences and Geodesy and Geomatics Engineering offered activities and demonstrations related to managing water quality, rock and mineral explorations, technological advances in geomatics, and virtual reality tours.



VISITORS EXPLORE THE MANY CAREERS RELATED TO MINING AND THE GEOSCIENCES.

The Science East Science Centre had many games encouraging learning through play, including puzzles and a portable digital microscope. The Quartermain Earth Science Centre had cookie mining competitions and smartphone activities, and RPC showcased mining operation videos and equipment.

When asked why Mining Matters was invested in traveling from Ontario and Saskatchewan to participate, Clinton spoke about the significance.

“Mining Matters participated in the 2023 event for the opportunity to engage with the public and to raise awareness about minerals and mining and the role they play in daily life, sustainability, and the transition to a low carbon economy,” she said.

Their table offered experiments, mineral matching games, colouring books, and other giveaways.

Although there were many activities to explore while at the Hugh Grant Flemming Centre, teachers interested in building a full day of mining-related STEM activities for their students also booked visits to Science East, an interactive Science Centre in downtown Fredericton, as well as with UNB Departments of Earth Sciences, Physics, and Chemistry for fun hands-on science activities.

The evening public lecture was held inside the complex at the K.C. Irving Theatre where the invited speaker, Dr. Steven McCutcheon, presented his informative talk on the history of mining in New Brunswick.

VISITORS WERE ABLE TO DRESS UP AS A MINER AND INTERACT WITH GEOSCIENCE PROFESSIONALS AND EDUCATORS.

Interestingly, the NB Department of Education and Early Childhood Development (EECD) has introduced more Earth and Environmental content in the new K-12 curriculum, as well as through partnerships in education such as with the Centre of Excellence for Energy. More environmental geoscience programs are being offered to students, teachers, and the public by institutions like UNB Worlds UNBound, the Quartermain Earth Science Centre, Science East, and Envirothon competitions.

On reflection, the 2023 NB Mining Event provided a safe and fun environment to inform and educate, providing the people of New Brunswick time to ponder the importance of mining and the contributions the industry has made to our daily lives.

“Making the connections between minerals and their uses in things we use on a daily basis always seems to amaze people,” said Thorne. “Once they do make that connection, they start to realize how important mining is both now and in the future to meet the growing demand for metals required for green technology.”

“The various interactive geoscience and resource development activities we had that were targeted at the younger generation seemed to resonate with them and hopefully will encourage them to consider geoscience as a profession (or some other STEM career) to meet future workforce demands,” she continued.

When asked about what is next for the NB Geological Surveys Branch, Thorne answered, “Our Geology Exhibit at Atlantic Balloon Fiesta was a great success, and we plan to hold another Mining Week event next year.”

Mining Matters extends its gratitude to the NB government and Dr. Robert Quartermain for making their participation in 2023 NB Mining Week possible. We all extend our thanks to the Mining Week organizing committee, visitors and our sponsors :

- Quartermain Earth Science Centre (QESC)
- Association of Professional Engineers and Geoscientists of New Brunswick (APEGNB)
- Science East Science Centre



2023 STEM TEACHER AWARD RECIPIENT

APEGNB is proud to be able to present St. Malachy's High School teacher Ryan Murphy with our 2023 STEM Teacher Award. Presenting the award to Ryan is our past-president, Michelle Paul-Elias, P.Eng., FEC.

APEGNB offers this award to New Brunswick teachers who strive to make learning engineering and geoscience principles fun and promote STEM learning. Congratulations Ryan!



APEGNB FOUNDATION FOR EDUCATION RECEIVES HISTORIC GIFT

The APEGNB Foundation for Education is pleased to announce a very generous bequest from the Estate of Barry David Ripley. The bequest will fund approximately six undergraduate scholarships annually for \$5,000 each, to be called "The Barry Ripley APEGNB Scholarships in Engineering".

Mr. Ripley was an Electrical Engineering Graduate of UNB. He was employed by the NB Telephone Company for many years and then started his business Martek where he continued to work until retirement.

These new scholarships will significantly increase the number of awards made annually by the Foundation. It is the generous, ongoing support of APEGNB members like Mr. Ripley that allows the Foundation to grow its support of Engineering students.

The scholarships will be managed through both UNB and the Université de Moncton, with details on the scholarships and application process to come.

FOR MORE INFORMATION ON THE FOUNDATION OR TO MAKE A
DONATION, VISIT WWW.APEGNB.COM

NEW BRUNSWICK LEGISLATION UPDATE

The Construction Remedies Act, which required a 10% holdback to be held in a trust account at a financial institution, has been amended. Section 37, which mandated the holdback trust account, has been repealed, eliminating the need for a separate bank account. However, the rest of the Construction Remedies Act remains in effect, and owners are still required to holdback the 10%.

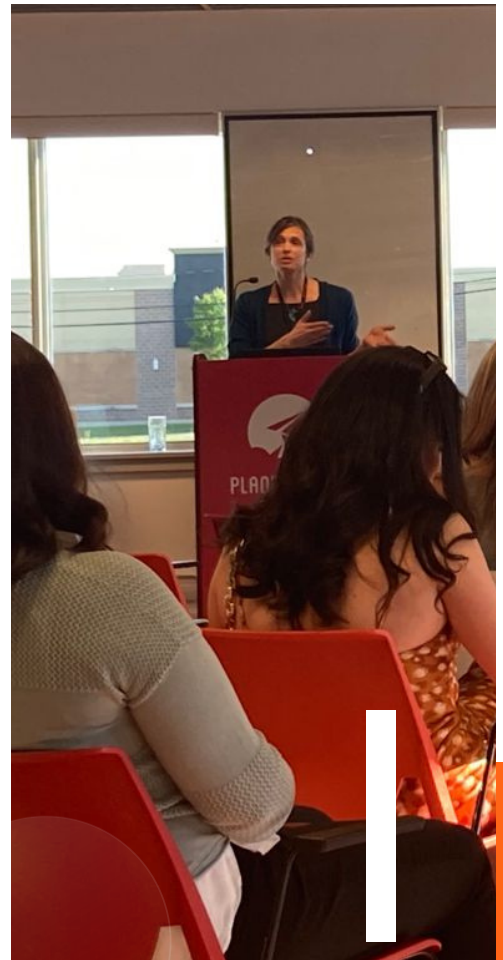
Additionally, the Construction Prompt Payment and Adjudication Act has been passed, but its implementation may take time due to its complexity. This Act establishes a system for prompt payment and adjudication in construction projects.

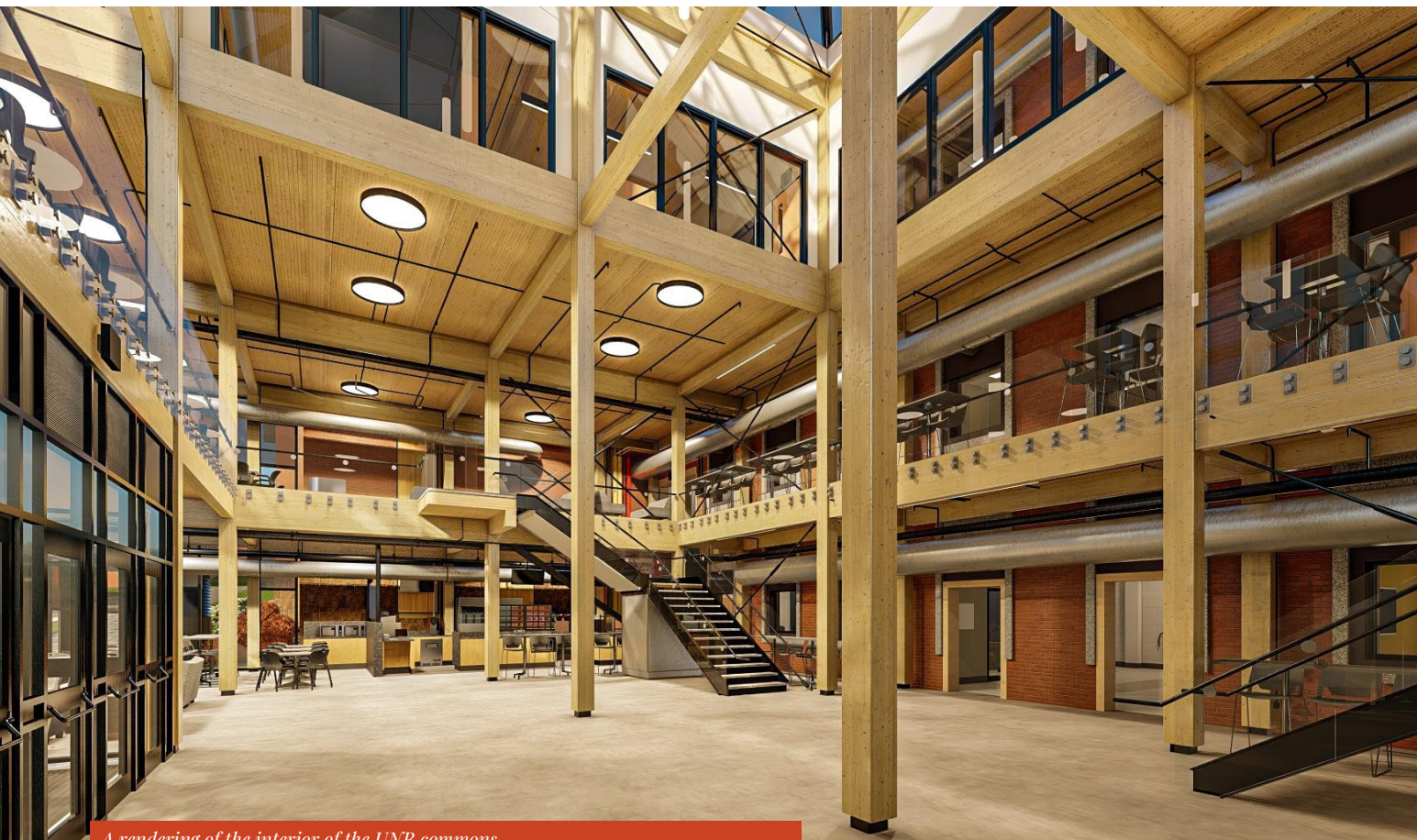
Furthermore, the Building Code Administration Act has been amended to include an appeal process for decisions made by building inspectors. This process can be used to resolve technical disputes and enforcement orders. While such appeals are rare, they offer a quick resolution in relevant cases.

APEGNB CELEBRATES INTERNATIONAL WOMEN IN ENGINEERING DAY



In June of this year, APEGNB held an intimate event for our female identifying registrants that celebrated *International Women in Engineering Day* (June 23 annually). We were honoured to have Dr. Anna Robak, P.Eng., Director, Research & Innovation at WSP and Adjunct Professor at the UNB Department of Civil Engineering, give a brief lecture on the importance of women in STEM and how workplaces can be more inclusive.





*A rendering of the interior of the UNB commons.
Image courtesy of Murdock & Boyd Architects.*

UNB engineering commons will be a 'living laboratory' for innovative students

Submitted by Angie Deveau, Communications Officer
University of New Brunswick

The University of New Brunswick's (UNB) engineering faculty, the longest-standing in Canada, is revolutionizing its legacy with a sustainable twist as it constructs the new engineering commons—an open-concept learning space supported by mass timber wood columns with a glass façade, blending innovation with a deep appreciation for its historical significance and the province's forestry heritage.

"A big feature of the building is the mass timber," said Greg Murdock, president of Murdock & Boyd Architects. "People will gravitate to wood because it's warm, it feels good. It's part of our culture. All the engineering disciplines that provide services to the building, such as mechanical ventilation, plumbing and electrical, would be exposed. It would be almost like a live laboratory for all students studying in the building."

Murdock, the lead architect on the project, said when UNB first approached them about building the commons, the university wanted to create more space for undergraduate and graduate students to collaborate and exhibit their work in a public area.

The renovation and expansion of Head Hall is a \$22.9 million project that will create a cutting-edge, sustainable space for learning, collaboration and innovation. The use of the mass timber is one of the signature features. Construction began the week of April 10 and is expected to be completed by June 2024.

The project was made possible by a cornerstone gift of \$1.1 million from UNB engineering alumnus Bill Cooper (BScCE'62), who has been a generous donor to the university for more than 40 years. Alumni and friends have contributed over \$5 million to the project.

The university is working with construction manager EllisDon and Murdock & Boyd Architects to complete the commons. They will provide necessary upgrades to the existing space and construct the three-story atrium as an addition to Head Hall. Nearly 20,000 sq feet of new space will support the growing undergraduate, graduate and research needs of the faculty of engineering.

Jason Allain (B.Eng '98), the construction manager for the EllisDon New Brunswick Operations, said the commons will be constructed with several innovative energy-efficient features, including LED lighting control systems, sensors for sinks and low-volume fixtures like toilets.

With mass timber construction, they also consider safety.

"Something unique about this project is the updated sprinkler system," said Allain. "Since mass timber is new to the industry, especially in Atlantic Canada, we have found a better way to do it. The system will be much more sensitive to smoke and provide an extra layer of safety."

Craig Hickey, director of projects with capital planning and operations at UNB, said this project aligns with UNB's sustainability goals while keeping operational and maintenance costs low.

"We will install new heating and electrical systems which will allow us to get rid of a lot of deferred maintenance of our existing systems," said Hickey.

"With earth tube technology, the space will pre-heat or pre-cool fresh air used in the ventilation system by moving it through underground pipes to take advantage of the surrounding soil's temperature," he said. "We will also install a heat recovery chiller/heat pump to heat and cool the renovated spaces by taking advantage of heat recovery and energy exchange from other parts of the building."

At the heart of the commons will be the Student Success Centre. This 1,500-square-foot room will enhance the student experience.

Dr. Josh Leon, dean of UNB's faculty of engineering, said the new space will allow for the expansion of services, including tutoring for core courses, peer mentoring, an early intervention program, counselling services, study skills courses, academic and career advising, as well as laptop and technology loan programs.

He said the new commons will encourage collaboration among students.

"Engineering has changed a lot over the years," said Leon. "We need spaces for students to meet and get together to talk about problems."

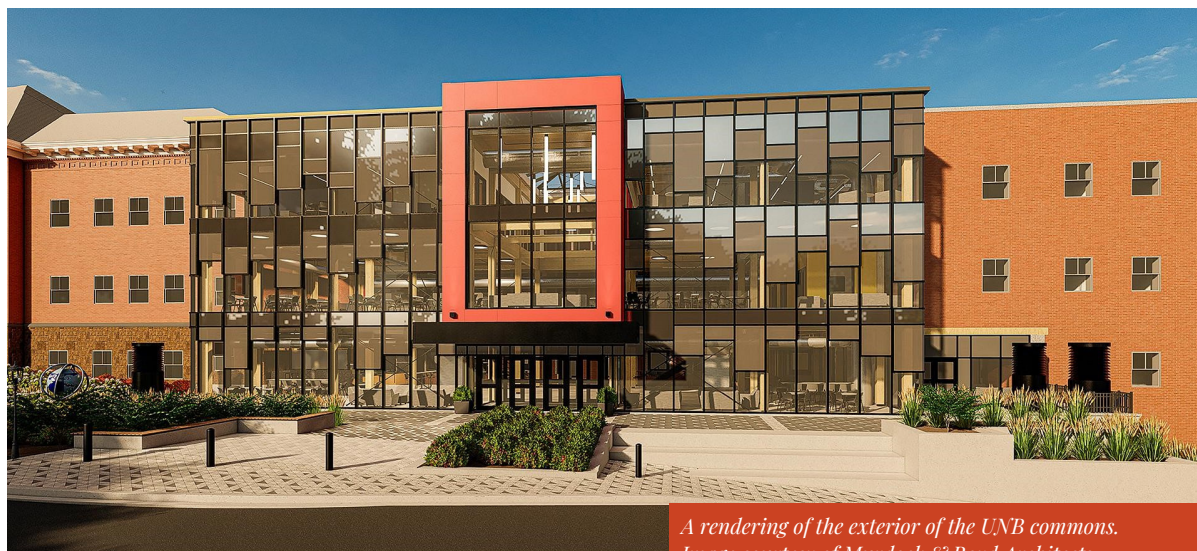
Leon said engineering is much more multi-disciplinary than it used to back in 1960, you hired an engineer, and he did the drawings in an office by himself," he said.

He said this is no longer the case.

Leon said the faculty prioritizes teaching group dynamics to respond to the needs of the workplace. He also said the additional space will allow them to meet their short-term goals for growth. This means increasing student numbers.

"There is a huge demand for engineers in Atlantic Canada and across the country, so we are responding to that need," he said. "This new space will not only speak to our history, but it also speaks to our future."

To support the Engineering Commons or to learn more, contact Craig Poole, Associate Director, Campaigns at cpoole@unb.ca.



*A rendering of the exterior of the UNB commons.
Image courtesy of Murdock & Boyd Architects.*

APEGNB Strategic Plan

2023-2026



Our Priorities

All future actions and initiatives will align with the following strategic pillars:

Pillar 1: Member Experience

By prioritizing member experience as a pillar of the strategic plan, APEGNB aims to enhance engagement, satisfaction, and value for its members.

A positive member experience leads to increased member retention, active participation, and a stronger professional community overall.

Pillar 2: Sustainability

Incorporating sustainability as a pillar in the strategic plan demonstrates a commitment to responsible and ethical practices. APEGNB recognizes the importance of sustainable development, environmental stewardship, and social responsibility. By integrating sustainability into its operations, regulations, and decision-making processes, the organization can contribute to promoting a more resilient and sustainable future.

Pillar 3: Stakeholder Relationships

Actively engaging and communicating with our stakeholders, including registrants, industry partners, students, government bodies, and the public is key for effective regulation. By enhancing relationships and increasing awareness, APEGNB will better understand the needs, concerns, and expectations of various stakeholders, enabling the organization to make informed decisions and shape policies that align with the broader interests of the professions.

Pillar 4: Risk Management

Risk management is a critical pillar for any organization, particularly a regulatory body. It involves identifying potential risks, assessing their impacts, and implementing strategies to mitigate and manage those risks effectively.

By proactively addressing risks, APEGNB can protect the interests of its members, the public, and the professions.

Strategic Goals

Pillar 1– Member Experience

Strategic Goals:

1. Improve efficiency of the licensing process
2. Harmonize interprovincial services
3. Review Continuing Professional Development (CPD) program
4. Develop pathways for equity seeking groups

Pillar 2– Sustainability

Strategic Goals:

1. Educate youth about the professions
2. Investigate emerging practices
3. Explore value of “Non-Practicing” category
4. Explore international impact

Pillar 3– Stakeholder Relationships

Strategic Goals:

1. Enhance relationships with Universities
2. Educate public on professions
3. Deepen relationships with regional branches
4. Enhance relationships with associations we interact with
5. Enhance relationships with governments

Pillar 4– Risk Management

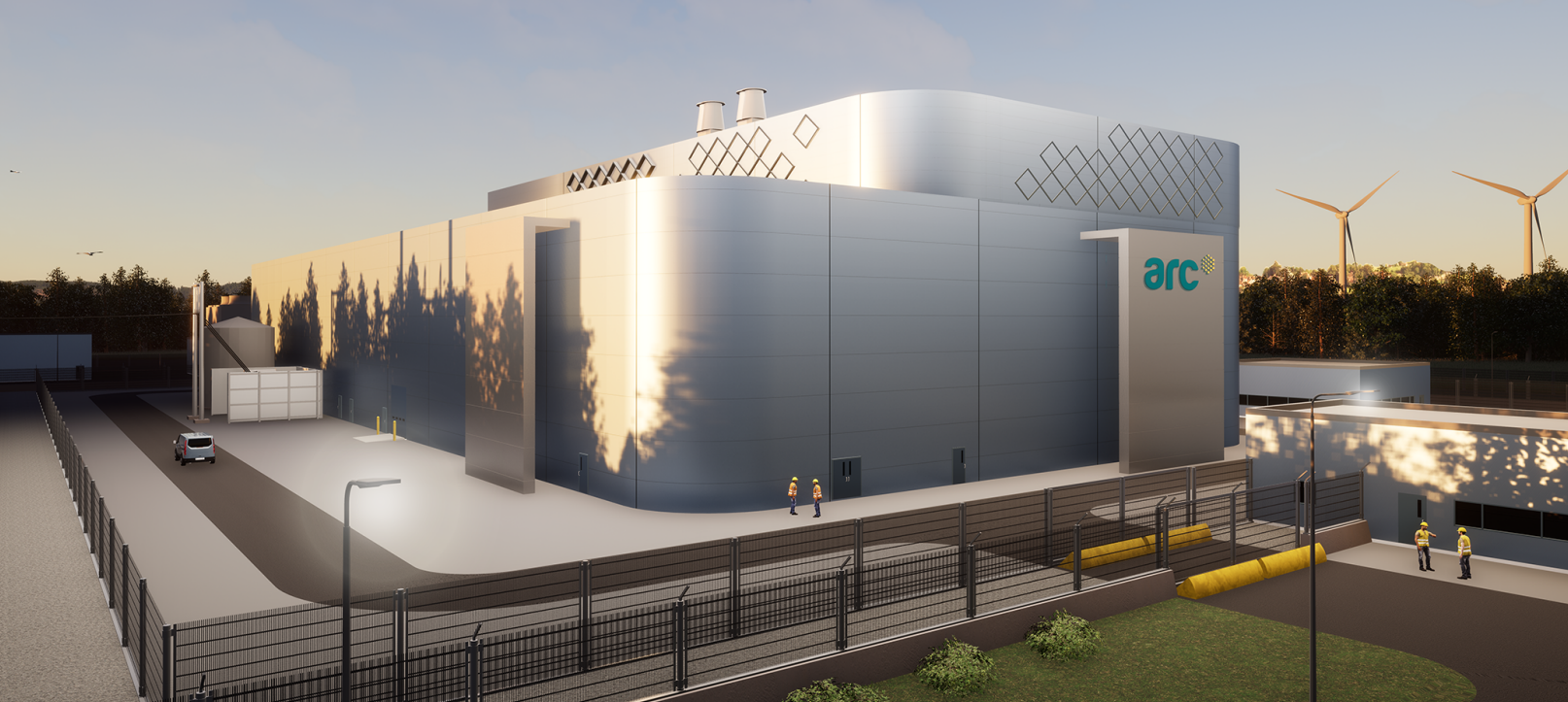
Strategic Goals:

1. Mitigate effect of unauthorized practices
2. Improve the licensing process
3. Comply with technology legislation

Learn more

www.apegnb.com/strategic-plan





Pictured above is an artistic rendering of the ARC-100 reactor.

ARC CLEAN TECHNOLOGY AND NEW BRUNSWICK POWER ACHIEVE MILESTONE FOR ARC-100 PROJECT

Submitted by Laura Kyle, Communications Specialist
ARC Clean Technology



Pictured from left are Bill Labbe, President and CEO of ARC Clean Technology Canada, Inc. and Lori Clark, President and CEO of NB Power.

On June 30, 2023 New Brunswick Power, in partnership with ARC Clean Technology Canada, Inc. (ARC), announced the submission of an Environmental Impact Assessment registration document to the Department of Environment and Local Government (DELG) and a Licence to Prepare Site (LTPS) Application to the Canadian Nuclear Safety Commission (CNSC) on the advanced Small Modular Reactor (aSMR) project. These submissions mark an important milestone in the plans to construct and operate an advanced small modular reactor on the site of the existing Point Lepreau Nuclear Generating Stations (PLNGS).

“This milestone demonstrates that ARC and NB Power continue to be industry leaders in the development and deployment of advanced nuclear technology in Canada,” says Bill Labbe, President and CEO of ARC Clean Technology Canada, Inc. “With this submission, ARC is now one of three SMR companies in Canada who have submitted a LTPS. We have an unprecedented opportunity to grow the low-carbon economy of the future, and ARC looks forward to the open and transparent public licensing processes that are now beginning.”

Since 2018, ARC and NB Power have been working collaboratively on the development of the ARC-100, a modular, advanced sodium-cooled fast reactor that will generate at least 100 megawatts of electricity.

NB Power has been providing technical support for the project, which is expected to be the first deployment of an on-grid advanced SMR facility in Canada. The project is a key objective of Stream 2 of the Strategic Plan for the Deployment of Small Modular Reactors prepared by the governments of New Brunswick, Ontario, Alberta, and Saskatchewan in 2022.

With these submittals, ARC is now one of three SMR companies in Canada who have submitted a LTPS, and the ARC-100 is the only grid-scale, Generation IV advanced reactor this group of industry leaders.

The LTPS and EIA submissions followed the recent release of NB Power’s strategic plan, Energizing our Future which highlights the need to phase out coal by 2030 and achieve net-zero supply by 2035, while maintaining energy security.

Lori Clark, President, and CEO of NB Power, says, “To transition to a cost-effective, clean, and secure energy supply, we are exploring new ways of delivering energy to customers. Small modular reactors are part of the solution to reach our target of being net-zero by 2035 and ensure that we are meeting the needs of New Brunswickers today and into the future.”

In addition to the solution that SMRs offer to the energy transition, the industry has, and will continue to bring New Brunswick many opportunities for individuals working in the engineering field. Since opening its Saint John office in 2018, ARC has been steadily growing its team of engineers who provide design oversight to strategic engineering partners. Some of those partners, such as Kinectrics and Hatch, have established offices in New Brunswick to support the growing SMR industry.

Through the Small Modular Reactor Research and Development Cluster that was announced by the Government of New Brunswick

in 2018, engineers from UNB and UNB’s Centre for Nuclear Energy Research are conducting targeted research and development activities to support the development of the ARC technology.

And this is just the beginning. Over the 2020-2035 time period, the development of aSMRs in New Brunswick is projected to create approximately (direct and indirect):

- 730 jobs per year over 15 years
- \$1 billion in Gross Domestic Product
- \$120 million in provincial government revenue.
-

The development of advanced small modular reactors can lead to fleet deployment opportunities in New Brunswick, Canada, and internationally. As the cluster grows, so will the benefits for New Brunswick.

About ARC Clean Technology Canada, Inc

ARC Clean Technology Canada, Inc. (ARC) is a clean energy technology company developing the ARC-100, an advanced small modular reactor (aSMR) offering inherently safe, reliable, and economical carbon free power. Leveraging proven technology from the 30-year performance of its prototype, the ARC-100’s simple, modular design provides 100 megawatts of electricity and industrial heat that will be cost competitive with fossil fuels. Important applications include the decarbonization of heavy industry, the fueling of low-carbon hydrogen projects, and the creation of life-saving medical isotopes. The ARC-100 has been selected by New Brunswick Power for implementation on their Point Lepreau site with completion by the end of this decade. ARC Clean Technology Canada, Inc. has offices in Saint John, New Brunswick and is a subsidiary of ARC Clean Technology Inc. based in Washington, DC. For more information, please visit: www.arc-cleantech.com



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* To be eligible for the offer of \$50,000 of additional Term Life coverage at no extra cost for up to two years, Members must meet the Engineers Canada sponsored Term Life eligibility requirements: be aged 18 to 65; be applying for Engineers Canada sponsored Term Life Insurance for the first time without having previously been declined for Term Life coverage by Manulife; be applying and approved for \$25,000 of Term Life coverage or more. Available to Members only (not available on Spousal coverage). For complete details, see manulife.ca/termmember.

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OBTAINING A CERTIFICATE OF AUTHORIZATION (C OF A) FOR MINERAL EXPLORATION COMPANIES

In accordance with the APEGNB By-Laws, "Partnerships, associations of persons and corporations that offer services to the public in their own name must hold a Certificate of Authorization".

**BY STÉPHANIE DOUCET-LANDRY, P.ENG., FEC
DIRECTOR OF PROFESSIONAL AFFAIRS, APEGNB**

Only persons who are members of the Association of Professional Engineers and Geoscientists of New Brunswick (APEGNB), licensees, or holders of a Certificate of Authorization (a company permit, also known as a "C of A") shall be entitled to practice the professions of engineering and geoscience in or for application in New Brunswick.



MINERAL EXPLORATION COMPANIES MAY BE REQUIRED TO REGISTER IN NEW BRUNSWICK IF THEY ARE PERFORMING ANY OF THE FOLLOWING TASKS:

Geophysical Surveys

A company designing or collecting geophysical data surveys and interpreting said data is required to be registered with APEGNB (hold a valid C of A), as well as have a licensed P. Geo. on staff who has signed off on the interpretation and/or the accompanying report. However, if a company simply collects data based on direction from other professionals (P. Geo.) and does not interpret the collected data, then they are not required to hold a C of A.

Geological Boreholes

Companies carrying out geological boreholes are not required to hold a C of A. Drilling is typically a subcontracted activity under the supervision of a P. Geo. or Prospector, or a company with a P. Geo. on staff.

Geophysical Interpretations

Companies carrying out geophysical interpretations of data collected in NB by another party are required to hold a valid C of A since the work is for application in NB.

AI Modeling

Companies carrying out AI modeling of data collected in NB by another party are required to hold a valid C of A since the work is for application in NB.

Soil Sampling

Companies carrying out soil sampling and interpreting data are required to hold a valid C of A, as well as have a licensed P. Geo. on staff who has signed off on the interpretation and/or the accompanying report. However, if a company simply carries out soil sampling based on direction from other professionals (P. Geo.) and does not interpret the collected data, then it is not required to hold a C of A.



THE PRACTICE OF PROFESSIONAL GEOSCIENCE MEANS

reporting, advising, evaluating, interpreting, processing, geoscientific surveying, exploring, classifying reserves or examining related to any activity :

- that relates to the earth sciences or the environment;
- that is aimed at the discovery or development of oil, natural gas, coal, metallic or non-metallic minerals, precious stones, or other natural resources or water or that is aimed at the investigation of surface or subsurface conditions of the earth; and
- that requires, in that reporting, advising, evaluating, interpreting, processing, geoscientific surveying, exploring, classifying reserves or examining, the professional application of the principles of mathematics, chemistry, physics or biology through the application of principles of geoscience.

As the regulatory body for the Engineering and Geoscience professions in New Brunswick, APEGNB administers the professions in accordance with the Engineering and Geoscience Professions Act. Inquiries about regulatory or enforcement issues can be directed to Stéphanie Doucet-Landry, P.Eng., FEC, Director of Professional Affairs, at stephanie.doucet@apegnb.com

APEGNB CONNECTIONS PROGRAM

**BY HOLLY AYLES,
PROGRAM COORDINATOR, APEGNB**

APEGNB is excited to launch Connections, a program designed to facilitate conversations between Members-in-Training (MITs) and Professionals. Connections offers MITs the opportunity to network with experienced Professionals at the top of their industries in a one-on-one format.

This format allows MITs the chance to ask questions and receive guidance about career goals, challenges faced and other workplace considerations in an authentic and honest space.

As part of its organizational goals, APEGNB has also placed an emphasis on recruiting Professionals from equity-deserving groups for the Connections program. This effort is designed to offer a broad range of perspectives to MITs participating in the Connections program. Participating MITs may be from similar backgrounds as the connected Professional and seeking advice about specific challenges faced as members of equity-deserving groups in the professions, or they may be from entirely different backgrounds and looking to broaden their perspectives.

Connections Program Expectations



***Are you an MIT interested in the
Connections program? Visit
<https://mentorshiprocket.com/APEGNB>
for more information!***

***Are you a Professional interested in
volunteering with the Connections program?
Email questions@apegnb.com to get details on
our next cohort!***

UNB researcher awarded \$300,000 specialized nuclear research grant

Author: Jeremy Elder-Jubelin, UNB

Dr. Olga Palazhchenko, a researcher at the University of New Brunswick's (UNB) Centre for Nuclear Energy Research (CNER), has been awarded new funding to further develop the centre's leading work in support of small modular reactor (SMR) design, safety and operation.

The Natural Sciences and Engineering Research Council of Canada (NSERC) and the Canadian Nuclear Safety Commission (CNSC) awarded Palazhchenko, an assistant professor of chemical engineering, more than \$300,000 from the NSERC-CNSC Small Modular Reactors Research Grant program.

Palazhchenko's three-year project will focus on ensuring human and environmental safety in the long-term storage of used fuel from small modular reactors (SMRs).

While SMRs are like other forms of nuclear power generation, they are advancing new technologies and materials, including a variety of proposed fuel types, sizes and compositions.

Some of these technologies have not yet been extensively used and Palazhchenko says they will require research to fully understand how they might react in a broad range of circumstances.

"The long-term solution for spent fuel storage for Canada's traditional, CANDU-type reactors is storage underground in what is called a deep geological repository, or DGR," she said.

"Since SMRs are an emerging technology, we need to understand how their fuel could interact with the environment in a DGR, particularly in a worst-case scenario like a flooding event."

Palazhchenko's research will explore the impact of potential storage of fuel from new SMR technologies on the current DGR disposal concept, considering the chemical reactions that could take place if the storage site were exposed to water.

Some of these reactor designs will contain traces of sodium in the fuel. Since sodium is reactive with water and oxygen, understanding and predicting the potential effects of the resulting exothermic reaction is important.

Determining these effects is a complex problem, as the amount of sodium, the extent of water entry through the storage container and fuel cladding, and the environmental scenarios are all variable factors.



Dr. Olga Palazhchenko, a researcher at the University of New Brunswick's (UNB) Centre for Nuclear Energy Research (CNER), has been awarded new funding to further develop the centre's leading work in support of small modular reactor (SMR) design, safety and operation. Photo and content provide by the University of New Brunswick.

This grant will enable Palazhchenko to grow her research team, engaging current and future highly qualified personnel. Ranging from undergraduate to PhD students, these researchers will receive hands-on training and experience in designing, operating and optimizing novel equipment and customizing analytical devices to investigate the reactions and corrosion effects that result from the interaction of the cladding alloys that enclose the fuel, fuel materials such as sodium or molten salts, and water.

Palazhchenko and her team will collaborate with Natural Resources Canada experts at the CanmetMATERIALS research centre in Hamilton, Ontario, which will provide access to their suite of advanced corrosion testing and characterization equipment.

"As well as being novel and interesting science in its own right, Dr. Palazhchenko's project speaks to a number of our institution's values and goals," said Dr. David MaGee, UNB's vice-president (research).

"It responds to Canada's decarbonization and energy transition strategy; it seeks to create a safer future for our communities and our natural environment, and it will educate and inspire tomorrow's experts. Congratulations to her, and to her team, for this success. I look forward to seeing the results and impact of her work."

Palazhchenko's research is also supported by a grant from the New Brunswick Innovation Foundation Research Professional Initiative (RPI) fund, a joint initiative with the New Brunswick Department of Post-Secondary Education, Training and Labour. The RPI provides applied researchers with funding to hire research professionals and will support a lab and project manager position on Palazhchenko's team.



ENGINEERS CANADA SUBMITS RECOMMENDATIONS TO FEDERAL GOVERNMENT ON CYBERSECURITY, AMENDMENTS TO THE TELECOMMUNICATIONS ACT

Engineers Canada has submitted comments and recommendations to the House of Commons Standing Committee on Public Safety and National Security on “*Bill C-26, an Act respecting cyber security, amending the Telecommunications Act and making consequential amendments to other Acts.*”

The government is seeking to strengthen cybersecurity through the proposed changes included in the bill, which consist of two parts. The first focuses on amending the *Telecommunications Act* to prioritize the security of the Canada telecommunications system, while the second introduces the *Critical Cyber Systems Protection Act* to safeguard critical cyber systems vital to national security and public safety. By implementing these legislative changes, the federal government aims to enhance the security and resilience of the Canadian telecommunications system and critical cyber systems.

Engineers possess expertise that makes them uniquely qualified to contribute to the design, implementation, and maintenance of cybersecurity measures. Their specialized knowledge, systems

thinking approach, ethical accountability, adherence to rigorous standards, and commitment to continuous professional development greatly benefit cybersecurity initiatives.

Recognizing the important role that engineers play in cybersecurity, and as the only national voice of the engineering profession, Engineers Canada submitted two recommended amendments to the *Telecommunications Act* that seek to include professional engineers as qualified inspectors under the Act.

Including professional engineers as qualified individuals who can be appointed as inspectors to ensure compliance with the provisions of the Act acknowledges and leverages the technical knowledge and skills that engineers possess. This recognition of engineers’ specialized expertise enhances the effectiveness of enforcement mechanisms and will reinforce the objective of upholding compliance with the Act.

DOUG BELL, P.GEO., FGC, TAKES OFFICE AS PRESIDENT OF GEOSCIENTISTS CANADA FOR 2023-2024

On June 3, 2023, at the 79th Meeting of the Board of Directors of Geoscientists Canada, held in Yellowknife, NT, Doug Bell, P.Geo., FGC took office as President for the 2023-2024 year after serving a year as President Elect.

Mr. Bell resides in Manitoba and is a Partner with Dillon Consulting. He holds an MSc Geology from the University of Alberta (1994), and BSc Honors Geology from the University of Manitoba (1986) and is a professional geoscientist (P.Geo.) registered with EGM, APEGA, and APEGS. Mr. Bell has over 30 years of geological, environmental, and hydrogeological experience across western Canada and in the north. As a volunteer in a variety of professional and learned organizations, Mr. Bell has served in several roles including two terms as a Council member of Engineers Geoscientists Manitoba. Mr. Bell has served as Manitoba Director of Geoscientists Canada since 2018 and has served on the Executive Committee since 2019. During his tenure on the Geoscientists Canada Board of Directors, Mr. Bell has served as a Treasurer and also as a member of the

Securities Committee.

When commenting on his new role as President, Mr. Bell indicated that he looked forward to “reimagining professional geoscience” by seeking, researching, and developing leading practices materials for the benefit of Geoscientists Canada’s Members and the profession of geoscience.

Also, during the June 3, 2023 Geoscientists Canada Board of Directors meeting, Ms. Christine Vaillancourt, P.Geo., FGC, director for Ontario, was elected President Elect and Mr. Matthew Alexander, P.Geo., FGC, director for New Brunswick, was elected Treasurer.

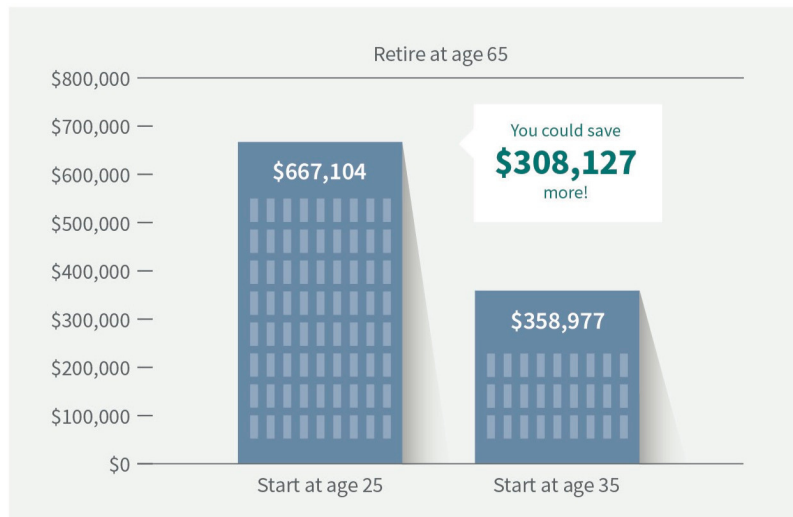
The geoscience profession, which encompasses many specialized practice disciplines, currently comprises over 14,000 licensed professionals (P.Geo.) and Geoscientists-in-Training registered with geoscience regulators across Canada.



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Assumptions: 6% annual gross growth rate and mid-year annual lump sum contributions of \$5,000 are assumed. Ontario HST is applied. Investment Management Fee IMF (%) based on the JF Canadian Equity fund.

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