

# UNB

ALUMNI NEWS

WASTEWATER  
PREHISTORIC LIFE  
CANCER ENERGY

## RESEARCH WITH IMPACT

AGING HEALTH CARE  
CLIMATE CHANGE  
ALIEN LIFE IDENTITY

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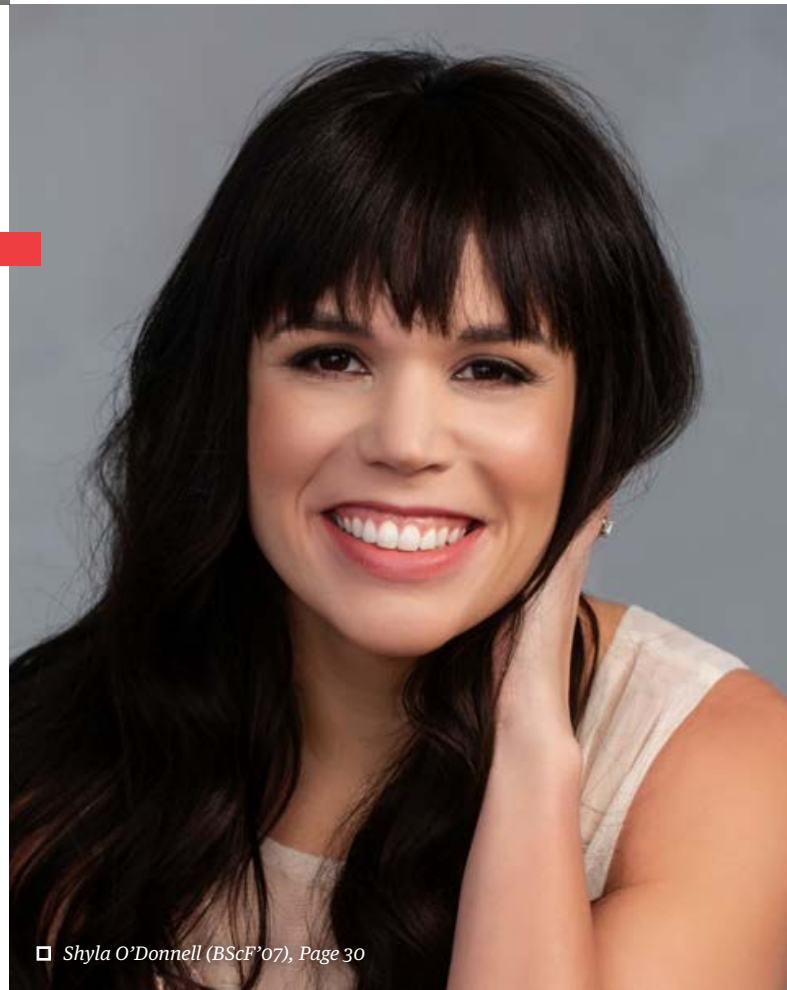
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□ Shyla O'Donnell (BScF'07), Page 30

# Letters from the **PRESIDENTS**



*“Our researchers contribute to some of the most important work being done on this planet and beyond.”*

**I** often say universities exist to change the world and there is no better example of how we do this than through the research on university campuses.

The week of Oct. 3, UNB held our first research celebration week. During the week, we put a spotlight on some of the groundbreaking research at UNB and celebrated the accomplishments of our researchers, students, partners and staff and the impact their work has made in New Brunswick, Canada and the world.

UNB is New Brunswick’s only nationally comprehensive university, and we conduct more than 70 per cent of the research in the province.

We are a national leader in cybersecurity, mobility rehabilitation and forestry research and home to several prestigious research chairs in areas ranging from the digitization of the construction industry, regional economics and medical devices and technologies.

During the past year, we have welcomed five new research chairs to the UNB community. Their work in healthy aging, resilient communities, marine additive manufacturing, the Internet of Things and digital entrepreneurship joins the innovative work of the existing research chairs at UNB.

UNB researchers are finding ways to make health care more inclusive, efficient and effective. Our researchers in cybersecurity are producing technology to help industry, academia and the public confront emerging threats. Researchers in energy and the environment are finding more sustainable ways to power the planet and protect its complex ecosystems.

The research conducted by UNB alumni is also improving lives. UNB alumnus Patrick Whalen (BScChE’03), featured in this issue, is the CEO of LuminUltra, a Fredericton-based company that includes many other

UNB alumni. Their innovative, community-focused solutions to microbiological problems have made them international leaders in their field. From providing hundreds of thousands of tests per week to Canadians to developing water testing systems used by the U.S. Centers for Disease Control and Prevention, LuminUltra has been at the forefront of finding solutions to combat COVID-19.

Through partnerships, our researchers contribute to some of the most important work being done on this planet and beyond. Working with the National Aeronautics and Space Administration (NASA) and the Canadian Space Agency, UNB contributes to the Atmosphere Observing System mission. Currently slated to launch in 2028 and 2031, this major multi-satellite mission will improve extreme weather prediction, climate modelling, and the monitoring of disasters. This work will improve environmental prediction to support adaptation and climate resilience.

Beyond earth’s stratosphere, UNB researchers are working on methods of determining the presence of life on other planets and creating computer simulations to understand better what goes on inside black holes.

Whether creating new technology, policy or ideas, our researchers are at the forefront of innovation in New Brunswick and Canada. Through the work of our researchers, we attract students to our campuses, foster translational research impact and grow our reputation worldwide. We contribute to improving people’s lives, which makes us all proud, and demonstrates clearly that the world does, in fact, need more UNB.

Proudly UNB,

**Paul J. Mazerolle** (BA’89)  
UNB President and Vice-Chancellor ■



**W**ith a new academic year well underway, UNB's campuses are vibrant with students and excitement.

On Sept. 22, we celebrated Red & Black Day at UNB. The Alumni Office hosted an ice cream social on our campuses, and it was wonderful to not only see the sea of red and black colours sported by our students, faculty and staff, but also worn by our alumni around the world in their workplaces, at home and on social media. Thank you to our alumni family for taking part in this special celebration of you, our UNB community, and for showcasing your UNB pride.

This year has also brought an exciting return to in-person graduation ceremonies for members of our spring and fall classes. We welcomed a full cohort of 2022 graduates into the alumni family and celebrated their remarkable achievements. The fall ceremonies took place Oct. 13 on our Fredericton campus and on Oct. 14 in Saint John. Having the honour to attend our Encaenia and Convocation ceremonies as president of the Associated Alumni has been a true highlight for me.

There is much to look forward to over the coming academic year, and I'm so enjoying connecting with you, our alumni, through the return of our many chapter events, alumni celebrations and UNB Talks Online webinars. I encourage you to keep an eye on your email inbox to see how you can get involved or stay in touch. We have a lot to be proud of over the last year and many ambitious goals for the future. Our 2021-22 Associated Alumni annual report is available for you to view online at [unb.ca/alumni/aboutus](http://unb.ca/alumni/aboutus).

Plans continue for the renovation of our Alumni Lounge and the President's Tartan Room in the Alumni Memorial Building on our Fredericton campus. We can't wait to show you the refreshed space and hope to have some of you experience it in person next June 1 to 4 during our 2023 Reunion Weekend. Mark your calendars!

Along with the many exciting plans for the academic year, it is also a season of great change for the Associated Alumni. In December, we said goodbye to Assistant Director Mary Duffley, as she began her next exciting chapter - retirement. Mary has had a truly profound impact on the Saint John campus and our alumni over the last 25 years, as she's successfully worked to build not only an Alumni Office, but a deeply connected, engaged and proud alumni network. Many of you have had the pleasure of knowing Mary, have attended her many celebrations over the years, and have witnessed her unwavering commitment to the alumni family and to the students of UNB. We are overwhelmingly appreciative of Mary, and the significant role she's played in the Alumni Office for so many years. She will be deeply missed, and we wish her all the best in retirement.

Sincerely,



**Jill Jeffrey** (BPE'82, BEd'83)  
UNB Associated Alumni President ■



*“Having the honour to attend our Encaenia and Convocation ceremonies has been a true highlight for me.”*

# NEWS *from* UNB

from UNB newsroom March 30 to Sept. 30

## New program in criminology and criminal justice

This past fall, the faculty of arts on the Fredericton campus launched a new program in criminology and criminal justice. This holistic program includes an examination of the causes and consequences of criminal activities and criminalization processes, and the study of responses, focusing on the comprehension of the law and the operation of the Canadian criminal justice system.

Read more at [blogs.unb.ca/newsroom/2022/07/criminology-program.php](https://blogs.unb.ca/newsroom/2022/07/criminology-program.php)

## A decade of PDC

The Pond-Deshpande Centre celebrated its 10th anniversary in May. The PDC, founded at UNB by entrepreneurs Gerry Pond (BA'66, DLitt'04), and Gururaj (MScEE'75, DSc'01) and Jaishree Deshpande (DSc'22), was aimed at leveraging entrepreneurship to find solutions for complex socio-economic issues. Over the years, the PDC team has inspired the next generation of young changemakers, invested more than \$1 million in early-stage startups and launched the first Public Social Innovation Lab in Atlantic Canada. These initiatives helped launch companies like Resson Aerospace, Symptek Solutions, Hot Spot Parking and SomaDetect.

Read more at [blogs.unb.ca/newsroom/2022/05/pond-deshpande-centre.php](https://blogs.unb.ca/newsroom/2022/05/pond-deshpande-centre.php)

## New bachelor of health sciences post-diploma entry for respiratory therapists



□ UNB Saint John respiratory therapy file photo

UNB Saint John and New Brunswick Community College are offering a bachelor of health sciences post-diploma entry for respiratory therapists. The entry was developed to meet the needs of professionals who already hold a credential in respiratory therapy and wish to obtain a bachelor of health science degree. The degree is designed for part-time study to allow RT professionals to continue working in their field.

Read more at [blogs.unb.ca/newsroom/2022/06/respiratory-therapy.php](https://blogs.unb.ca/newsroom/2022/06/respiratory-therapy.php)

## UNB expands nursing offerings on Fredericton campus

The faculty of nursing in Fredericton has introduced a mental health specialization and doubled the capacity of its nurse practitioner program. UNB is developing a curriculum of specialized theory and clinical courses that will allow 21 students to specialize in mental health each year, preparing them with the expertise and training to

respond to mental health issues. The specialization was added for September 2022. The master of nursing - nurse practitioner program will expand from 10 to 20 seats in September 2023.

Read more at [blogs.unb.ca/newsroom/2022/04/nursing-offerings.php](https://blogs.unb.ca/newsroom/2022/04/nursing-offerings.php)

## Nursing leadership program



□ Holly Knight (BN'11, MN'18) and Erika Kinney (BN'10), members of the department of nursing and health sciences at UNB in Saint John

Launched fall academic year, UNB's Saint John campus now offers a certificate program in nursing leadership and management. This post-bachelor's certificate is an online term-based program designed to meet the needs of health-care professionals starting their career in, or aspiring towards, leadership positions in health care. Students in this program will have access to a team of highly skilled and educated management professionals from the faculty of business and the department of nursing and health sciences.

Read more at [blogs.unb.ca/newsroom/2022/05/nursing-leadership.php](https://blogs.unb.ca/newsroom/2022/05/nursing-leadership.php)

## Experiential learning opportunity

A three-way partnership between UNB, New Brunswick Community College (NBCC), and the Marshall Skills Academy will develop innovative new ways to provide students with experiential learning opportunities in the manufacturing and engineering sectors.

The partnership will address skills shortages for the underemployed, newcomers, and military personnel transitioning to civilian life with a focus on talent retention. The partners will work with regional engineering and manufacturing organizations to stimulate economic growth through a

delivery model of education that will assist in both attracting and retaining the highest quality engineers in the region.

Read more at [blogs.unb.ca/newsroom/2022/06/marshall-skills-academy.php](https://blogs.unb.ca/newsroom/2022/06/marshall-skills-academy.php)



## Fellow in digital education



□ Matt McGuire (BEd'07, MEd'14)

The McKenna Institute launched the McKenna fellow program last March with the appointment of the inaugural McKenna fellow in digital education, Matt McGuire (BEd'07, MEd'14). Located in UNB Fredericton's faculty of education, the fellow will work with the McKenna Institute, the New Brunswick Department of Education and Early Childhood Development, and other education stakeholders to develop and implement a new K-12 digital literacy program across all New Brunswick schools.

Read more at [blogs.unb.ca/newsroom/2022/03/unb-and-the-mckenna-institute-announce-mckenna-fellow-in-digital-education.php](https://blogs.unb.ca/newsroom/2022/03/unb-and-the-mckenna-institute-announce-mckenna-fellow-in-digital-education.php)

## New Indigenous health and social facility

The new Awitgati Longhouse and Culture Centre will be a net-zero carbon facility and serve as a gathering place to celebrate and support Indigenous people and culture. It will provide programs and services for all community members in four priority areas: health and wellness; education, skills and training; arts and culture; and gathering and community building. The spaces will be inclusive, affordable and accessible. The facility

will replace Under One Sky's existing building on Fredericton's north side.

Dr. Jason Hickey, UNB's Canadian Institutes for Health Research (CIHR) Indigenous research chair in nursing, has supported the project. He co-led the feasibility study and funding application for the building. He will now serve on the advisory committee as the project moves forward.

Through collaboration with Under One Sky, UNB students and researchers have been able to learn, develop allyship and understanding, and provide academic support to community members.

Read more at [blogs.unb.ca/newsroom/2022/08/longhouse.php](https://blogs.unb.ca/newsroom/2022/08/longhouse.php)

## UNB first in Atlantic Canada to offer gender and sexuality in literature PhD

Drawing on its 40-year history of research excellence in gender and sexuality studies, UNB will launch a master's and a PhD program in the specialization of gender and sexuality in literature (GSL). Students in the GSL stream will approach gender and sexuality studies through the lens of literature. They will develop a strong

foundation in theoretical approaches and undertake research for a thesis on a topic of their choosing. All students who study in this specialization will take the newly developed course, Theories of Gender and Sexuality in Literature: GSL Core Course. PhD students will also complete comprehensive examinations on

gender and sexuality theory or women's and queer literature. GSL programming will begin in the fall of 2023 at UNB Fredericton.

Read more at [blogs.unb.ca/newsroom/2022/08/gender-and-sexuality-in-literature.php](https://blogs.unb.ca/newsroom/2022/08/gender-and-sexuality-in-literature.php)



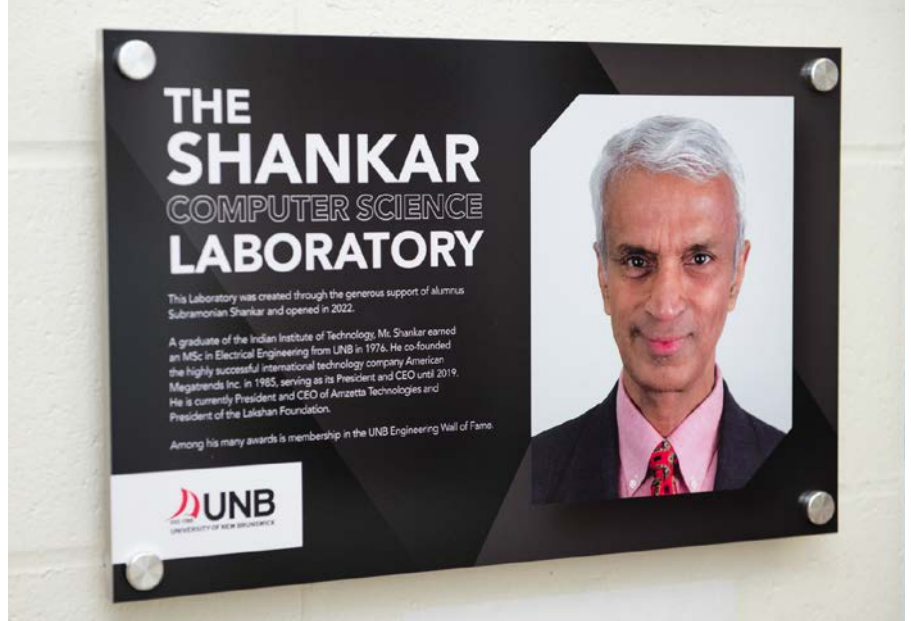
## Digital education in New Brunswick's schools

UNB's McKenna Institute, in partnership with New Brunswick's Department of Education and Early Childhood Development, will help teachers integrate technology in the classroom and enhance their students' learning experience. The partnership with the department's anglophone sector has already begun, with 50 teachers receiving training through the Digital Learning Network.

Other initiatives include:

- a program to enable middle school girls to learn the fundamentals of programming (coding) and explore related career opportunities;
- the launch of the Centre of Excellence in Digital Innovation to connect students with experiential learning opportunities in information technology and cybersecurity;
- the development of digital literacy standards and the creation of a web portal for teachers to access digital literacy resources, including learning activities they can implement in the classroom;
- summer learning opportunities for teachers to help them develop digital skills;
- and virtual and in-person workshops for families, where they can engage in digital literacy activities and explore career pathways.

Read more at [blogs.unb.ca/newsroom/2022/06/gnb-partnership.php](https://blogs.unb.ca/newsroom/2022/06/gnb-partnership.php)



## UNB opens \$1 MILLION Shankar Computer Science Laboratory

Read more at [blogs.unb.ca/newsroom/2022/09/cs-laboratory.php](https://blogs.unb.ca/newsroom/2022/09/cs-laboratory.php)

## Peer support pilot program

UNB, along with the University of Prince Edward Island, Trent University, Medicine Hat College and the University of British Columbia, is part of a \$2-million, three-year campus peer support pilot project led by the Canadian Mental Health Association (CMHA). The project's aim is to provide post-secondary students with the tools they need to support each other's well-being. To achieve this, CMHA will work closely with the institutions to train and empower students who have lived and living experiences of mental health or substance use to support fellow students facing similar issues.

The innovative pilot project will provide in-person and virtual training, as well as certification to 100 student peer supporters across the five sites. Peer supporters will work in tandem with counselling and professional services on campus and help connect students to supports available in the wider community and via their local CMHA. The training materials will be created with students, and peer trainers will be taught to deliver the curriculum so that the project can continue beyond the pilot phase.

Read more at [blogs.unb.ca/newsroom/2022/05/campus-peer-support.php](https://blogs.unb.ca/newsroom/2022/05/campus-peer-support.php)



□ Menahqesk clothing line designed by UNB Saint John student Hayden Hovey

### Student creates clothing line to celebrate Saint John's Indigenous roots

Hayden Hovey is bringing Indigenous visibility to the Saint John campus through a clothing line he designed called Menahqesk. Hayden is in his fourth year of sociology with a concentration in criminal justice and is the first Indigenous representative on the UNB Saint John Students' Representative Council. He hopes the Menahqesk clothing line will pique curiosity to start a conversation and help educate the UNB community on Indigenous land history.

Hayden worked with UNB Saint John's Indigenous adviser, Todd Ross, to create a way to connect the UNB community and celebrate the region's Wolastoqey roots and Maliseet, Mi'kmaw and Peskotomuhkati Peoples. Social Science in Practicum is a course offered at UNB's Saint John campus. It pairs students with a mentor or an organization that best fits their goals and related disciplines to provide experiential learning opportunities.

Read more at [blogs.unb.ca/newsroom/2022/09/menahqesk-clothing-line.php](https://blogs.unb.ca/newsroom/2022/09/menahqesk-clothing-line.php)

### Coding boot camp

UNB's College of Extended Learning, the McKenna Institute and TechImpact have launched an online coding boot camp designed to help prepare learners for the surging number of available positions in the IT sector and workforce.

Read more at [unb.ca/cel/bootcamps/coding.html](https://unb.ca/cel/bootcamps/coding.html)

### New legal clinic aims to improve access to justice through experiential education

The fall of 2022 was historic for UNB Law and the Province of New Brunswick. In late September, the law school welcomed the first clients to the UNB Legal Clinic – the province's first full-time poverty law clinic offering legal representation to operate in over 30 years. The clinic provides free legal services to individuals who cannot afford a lawyer and who do not qualify for legal aid. Students, under the direct supervision of a full-time staff lawyer, will work on client files relating to housing and tenant matters, social benefits, employment law, and small claims.

Read more at [unb.ca/fredericton/law/nexus/faculty/faculty1.html](https://unb.ca/fredericton/law/nexus/faculty/faculty1.html)



□ 2022 Sir Howard Douglas Scholars

### Sir Howard Douglas Scholars

Last May, 16 students were inducted into the Sir Howard Douglas Scholars Society for their exceptional involvement in UNB and their local and international community. Nominated by their faculties, the scholars must have completed at least two years of their bachelor's degree program, achieved academic excellence and actively participated in co-curricular or extracurricular activities. Members of the Sir Howard Douglas Society become part of a network of outstanding students.

Congratulations Alexandre Banks, Michael Boyle, Maegan Burt, Maddie Carr, Niko Coady, Vanessa Dairo-Singerr, Marlowe Evans, Jun Guo, Katie Herrington, Nihla Hussain, Charlotte Knappe, Alexis Matchett, Sofia Mehlitz, Ashlee Morrell, Book Sadprasid, Emily Thomson. ■

Read more at [unb.ca/president/shd/2022.html](https://unb.ca/president/shd/2022.html)



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# GRADUATION



# 2022

UNB celebrated the achievements of more than 2,000 graduates during its spring and fall graduation ceremonies. Here are a few highlights from the Fredericton and Saint John ceremonies in May and October.







▣ UNB Chancellor Dr. Allison McCain (BScEE'72, DSc'07), Dr. Stephen Augustine (DLitt'22), and UNB President and Vice-Chancellor Dr. Paul Mazerolle (BA'89).

Honorary Degree Recipient  
**Chief Stephen Augustine, doctor of letters**

Hereditary Chief on the Mi'kmaq Grand Council, renowned Elder and Mi'kmaq scholar, Stephen Augustine is dedicated to supporting education through Indigenous ways of knowing and fostering an environment for collaboration between organizations.

His book, *Mi'kmaq and Maliseet Cultural Ancestral Material: National Collections from the Canadian Museum of Civilization*, has proven to be a valuable resource for educators and researchers in

understanding Indigenous culture. In 2009, Chief Augustine was awarded the National Aboriginal Achievement Award for his outstanding work in supporting the recognition and teaching of first nations culture, heritage and spirituality. In addition to his personal accomplishments, he is viewed as a respected supporter of the Indigenous community and serves as the Elder advisor for the Federal Court of Canada Judges, the Truth and Reconciliation Commission, and the Human rights Commission of Canada.

Most recently, Chief Augustine was appointed to the Order of Canada, for 2022, where he was recognized for his efforts in advancing Mi'kmaq studies and sharing his scholarly expertise and traditional knowledge with private and public organizations. ■

*(The spring honorary degree recipients were featured in the last issue of Alumni News)*

# *Kerry Norman* finds promising opportunities through work placement

**K**erry Norman wanted a career change, pivoting from environmental geoscience into nursing. After considering her options for accelerated bachelor of nursing programs, she chose UNB to follow her passion for helping others.

“I was working for an engineering firm in Edmonton but I wasn’t fulfilled,” Kerry says. “I was inspired to enter nursing after being exposed to the work health-care professionals do around safe injection sites for substance users.”

The two-year bachelor of nursing accelerated program at the Moncton site appealed to Kerry for two reasons: she could re-enter the workforce quickly with valuable field experience. The accelerated nursing program is open to those with at least 46 credit hours of university experience.

“Nursing clinical placements are some of the finest examples of experiential learning at UNB,” says Dr. Sarah King (BPhil’06, PhD’18), director of experiential education at UNB. “Giving students meaningful experiences helps them develop as professionals and creates a generation of caring, compassionate, community-oriented nurses.”

In her first year, Kerry has had three workplace placements across the Moncton area. These have included a rural placement at Sackville Memorial Hospital, the inpatient psychiatric unit and maternity unit at Moncton City Hospital, and a placement with Ensemble Moncton. She spent last summer at a Tim Horton’s camp for kids.

Ensemble Moncton provides many community-based health-care services, including harm reduction services such as a drug overdose prevention site. It allows people who use substances to inject uncontrolled substance(s) safely with trained staff supervision so that rapid intervention can be provided in the event of

accidental overdose. Support and resources to seek counselling and drug rehabilitation are available on site.

Kerry explains why safe injection sites are essential.

“We can test the substances to check if it is laced with fentanyl, which is a leading cause of overdoses. We keep naloxone (a medication used to reverse the effects of opioid overdose) on site in the event of a medical emergency and provide naloxone kits for clients to take away.”

Working at Ensemble is rewarding, but it comes with challenges. Kerry sees people in distress, and she hears all their concerns. Ensemble provides a temporary haven and a beacon of hope for those seeking a stable life and offers a unique training opportunity in the health-care system for students like Kerry.

Kerry’s clinical instructor, Carolyn Baxter, teaches within the Community and Population Health Nursing course and supports learners in their community placements.

“Most nursing students end up working in the hospital or acute care system,” says Carolyn. “Ensemble gives our students a perspective of primary care outside the hospital. They get to see where patients come from and what situations they go home to. Ensemble provides a glimpse into preventative care and how we, as a society, can do more to keep people out of the hospital.”

As for Kerry’s future in nursing, she is open to whatever opportunities come her way in New Brunswick or elsewhere in Canada. ■







**UNB** is here.

—  
Where caregivers get a  
helping hand.

“When you don’t know, you worry.” Every day, a quarter of all Canadians provide care to the seniors in their lives. As more Canadians age, these caregivers face increasing demands and stress as health concerns grow.

That is why Dr. Erik Scheme is developing PITCH, an easy-to-use, secure digital platform that helps caregivers to collect, analyze and share health information with healthcare providers. It lightens the weight of knowing what to ask and what to do to make sure your loved ones are safe and healthy.

Wherever Canadians are caring for seniors at home, that is where you’ll find UNB. Learn more about our mobility rehabilitation research group at [UNB.ca/mobility](https://unb.ca/mobility).



A photograph showing several archaeologists working in a deep excavation site. One man in a white shirt and glasses is crouching and looking at a white hard hat. Another man is shirtless and crouching in the foreground. The site is filled with dirt, rocks, and various tools like buckets and a hammer. The background shows a high, rocky wall of the excavation.

# DECIPHERING *the* DISTANT PAST *in a record of stone*

▣ Digging at the Bau de l'Aubesier rock shelter, circa 1993.



When Lucy Wilson (BA'83) makes her annual trek to the Vaucluse region of France, it's not the Roman ruins or the medieval ramparts that draw her eye - it's the hidden world of prehistoric life concealed in the area's geology.

Dr. Wilson, a geoarchaeologist and professor at UNB Saint John, is part of a unique discipline in the study of human history, one that searches for traces of our distant ancestors in the stone objects they left behind.

Her focus is on Neanderthals and their precursors in the Middle and Lower Palaeolithic periods in southern France, as well as in several other locales. This takes the record back at least 100,000 to 300,000 years and involves the extraordinarily difficult work of extracting evidence of archaic human behaviour from a small amount of material. For Dr. Wilson, that

evidence is in the raw materials used to fashion stone implements.

"Geoarchaeology is the interaction between geology and archaeology, and many geoarchaeologists study landforms and soil development within an archaeological context," she says. "But I see it as a broader field that also includes studying the rocks that stone tools are made from, which is what I do. It's about applying the tools of geology to solve archaeological questions."

The characteristics of the landscape constrain which activities are possible, just as social and cultural habits condition people's connection with the environment. Dr. Wilson says geoarchaeology is about finding the traces of these interactions and using them to reconstruct how people in the past behaved in their environmental context.

"I have done some work in North America, including some here in New Brunswick," she says, adding that human settlements in the province are relatively modern, reaching back about 10,000 or 11,000 years.

"But my focus has always been on hominids who are not yet modern, because I'm curious about what they were capable of. With older forms, we don't know what they could do and most of the time we don't know what they did do. I did my doctorate in France and carried on working there up until the present day. I've also worked on a project in Israel since 2013."

A doctoral student, Peter Mears (BSc'20), works with Dr. Wilson at the French and Israeli sites. Dr. Wilson says the Israeli sites are mainly Lower Palaeolithic, 200,000 to 400,000 years old. The stone material from



□ Excavated bones and tools in the lower section of the Bau de l'Aubesier (bones and tools in situ, uncovered and about to be coordinated and removed).





□ Lucy Wilson explaining geology to visitors at the *Bau de l'Aubesier* in 2019. Photo by Marjorie Ughetto.

## GEOARCHAEOLOGY IS THE INTERACTION BETWEEN GEOLOGY AND ARCHAEOLOGY

such ancient sites includes tools that were used for butchery, hunting and preparing hides for tanning. Dr. Wilson says archaeologists can tell from marks on the tools whether they were used on wet or dry hides, or on wood, but the hides and wooden objects did not survive the passage of time.

Dr. Wilson tracks where the raw material for the stone was found. It's then possible to work out patterns from that information.

“We can take a multi-layered site that covers a couple of hundred thousand years of prehistory and look at it layer by layer,” she says. “In one layer, we may find that ease of access (to raw material) was more important than the characteristics of the raw material itself. Then in another layer, we may find the characteristics of the raw material were more important - they wanted good raw material.”

“What were they doing? Were they bringing raw material to the site or moving around the countryside with prepared finished tools they used over and over? What kinds of animals were they hunting and eating? Were they using fire, and how much were they using it? You add it all into the mix and try to understand what was going on.”



She says bones found in the sites indicate Neanderthals hunted species of early horses that roamed the area, as well as the ancestor of the cow - a larger, meaner creature called the aurochs. There was also a type of mountain goat, amongst other animals.

“It all adds up to make a complex picture,” she says. “These were people who were always moving around.”

“One site I worked on, there was every sign they were there for a few days. They caught a couple of horses, brought them to the site, butchered the horses, tanned the hides and then they left. It is a very precise few days in time for one group of hunters. That is unusual. Usually, a group of people came, they stayed a couple of days, they went away and left stuff behind. Another group of people came umpteen years later, they stayed a few days, they mixed their stuff with what the other people had left behind and then they went away. It keeps getting repeated over and over

and everything gets mixed so you have maybe hundreds or thousands of years of sporadic visits looking as if they are one. You have to understand, we have really messy pictures here.”

Dr. Wilson is from New Brunswick and studied at UNB. She first taught at UNB in 1988, then returned permanently in 1995 and is a full professor. The courses she teaches include geoarchaeology, a subject that is rarely taught in North America.

She returns every summer to the Vaucluse region of southern France to do fieldwork. “I accidentally have to work in a beautiful place,” she says.

“From a Neanderthal point of view, the area is great. It’s dry but there were sources of water. There were lots of different animals, different habitats and a variety of food and lots and lots of flint to make your stone tools out of. It’s a great place for prehistoric humans, and for modern ones too.”

Dr. Wilson believes we need to understand the past to have any clue about the future, and that there are many lessons to be gleaned from the lives of prehistoric peoples.

“Their cultures were very different from ours, but they had to adapt to rapid climate change,” she says.

“We often underestimate how variable climate has been in the past. We have lived through about 10,000 years of a fairly stable climate. There have been fluctuations but the climate has been pretty stable for the entire length of human history and we have come to believe that is normal. But if you look beyond that, there were rapid and wild changes in climate - in some cases within a person’s lifetime, from the full-on ice age to hotter than it is now. We underestimate how people in the past had to deal with that sort of change. But they did, and they survived. Here we are. Flexibility is the key to that.” ■



□ Peter Mears (BSc'20) digging in summer 2022 at the Middle Palaeolithic rock shelter site of Les Auzières, Vaucluse, France.



□ View of Bau stratigraphy (circa 1990), showing the different areas of excavations.

# RESEARCH *Roundup*

## THE POLITICS OF FRACKING AND RENEWABLE ENERGY IN ATLANTIC CANADA

**D**r. Heather Millar, assistant professor of political science, is interested in the public policy of, and public response to, energy transitions and generation methods. She is currently working on a book project that focuses on the politics of fracking. Her research “examines why governments make the choices they do when faced with economic, scientific, and political uncertainties.” In her book, she looks at “how these dynamics fostered collectively held

beliefs that she calls ‘risk narratives’ and argues that risk narratives help explain why some provincial governments banned fracking while others facilitated it.”

Dr. Millar is also working on a research project that explores the comparative politics of renewable energy generation in Atlantic Canada. She is “curious about what policies helped New Brunswick get to decarbonization, and what might be

some of the barriers related to deep decarbonization - that is, having a completely non-emitting electricity generation system. This project connects to a body of literature in environmental politics that explores how policy design can generate opportunities to destabilize carbon lock-in, the complete dependence on fossil fuels in the modern economy in Canada.” ■

Read more at [blogs.unb.ca/research/2022/05/meet-heather-millar.php](https://blogs.unb.ca/research/2022/05/meet-heather-millar.php)





## CANADA RESEARCH CHAIR IN HEALTHY AGING

**D**r. Catherine Bigonnesse will work to develop evidenced-based healthy aging policies and decision-making tools for the Atlantic provinces. ■

Read more at [blogs.unb.ca/newsroom/2022/06/healthy-aging-at-unb.php](https://blogs.unb.ca/newsroom/2022/06/healthy-aging-at-unb.php)

## USING MATH IN THE FIGHT AGAINST CANCER

**D**r. Nanwei Wang, data scientist and assistant professor of mathematics and statistics, is bringing math and genetics together in his research to tackle big, complex challenges.

His research focuses on “genomic data analysis with mixed genetic networks. In genome-wide association studies (GWAS), researchers work to determine which genes are strongly correlated to cancer diseases or other genetic diseases. The best, most common method in GWAS is linear

mixed models, which use regression to try to identify single nucleotide polymorphisms that have significant correlation with the presence of cancer. However, linear mixed models cannot explore the joint distribution of genetic variables,” which is where Dr. Wang’s research comes in.

His research uses “mixed graphical models to integrate different types of genetic variables and to build global genetic networks. Graphical models use graphs to denote conditional

correlations between variables - that is, the relationships between two different factors being analyzed, based on the other factors present.” In this way, Dr. Wang can determine which factors affect each other - and how - in complex sets of data. “Using graphical or other statistical models to explore the relationships among high dimensional data problems can really help [Dr. Wang and his team] find the useful information within the large amounts of noise.” ■

Read more at [blogs.unb.ca/research/2022/06/wang-math-and-cancer.php](https://blogs.unb.ca/research/2022/06/wang-math-and-cancer.php)

## HELPING TO REFORM HEALTH CARE ACROSS THE PROVINCE

**W**ith more than 20 per cent of the Saint John population living in poverty, Dr. Ziba Vaghri is addressing this issue as a societal challenge and tackling it in a way that will drive social progress and improve the lives of children.

Dr. Vaghri is the principal investigator for two multinational projects: UNB's GlobalChild and InspiRights: Good Practices to Inspire and Facilitate Children's Rights. InspiRights is a collaboration between Dr. Vaghri at GlobalChild and Dr. Sarah Gander

(BSc'00, MEd'16), clinical lead and pediatrician from NB Social Pediatrics.

The InspiRights project will be used to create a global inventory of practices that promote children's rights and inspire governments to strengthen their investments and actions. This ultimately leads to the improvement of children's lives in New Brunswick, Canada and beyond.

Drs. Vaghri and Gander, and their respective programs, remain an important source of information,

expertise and training for future leaders. Their work not only provides a research forum for the students in the two programs, but also for their home universities and the network of their partner universities.

This collaboration is part of UNB's Integrated Health Initiative, as it drives change through research and aims to inspire evidence-informed public policy. ■

Read more at [blogs.unb.ca/newsroom/2022/06/reforming-healthcare.php](https://blogs.unb.ca/newsroom/2022/06/reforming-healthcare.php)

## UNB RESEARCHERS CONTRIBUTING EXPERTISE TO HEALTHY SENIORS PILOT PROJECT

**S**ix research initiatives involving UNB received funding from the provincial government as part of the Healthy Seniors Pilot Project, aimed at fostering healthy aging in New Brunswick.

The six projects are:

- Addressing determinants of senior well-being and reducing social isolation (with the New Brunswick Community College)
- Care-services navigation and care-skills development program for informal caregivers of seniors

and seniors aging in place in New Brunswick (with the New Brunswick Community College)

- CHARM Study - Coordinating transitions from hospital for older adults with fractures: An interventional mixed methods study (with Horizon Health Network and TraumaNB)
- Identification of risk and development of an evidence-informed strategy for the safe reintegration of families into long-term care homes

- Lifting frailty in New Brunswick
- Piloting patient navigation for people with dementia, their caregivers, and members of the care team (with Horizon Health Network and St. Thomas University)

This is the third and final series of projects to receive funding under the pilot project. ■

Read more at [blogs.unb.ca/newsroom/2022/04/healthy-seniors-pilot-project.php](https://blogs.unb.ca/newsroom/2022/04/healthy-seniors-pilot-project.php)

## LOW ACCESS TO PHYSICIAN CARE

**D**r. Chris Folkins (BSc'03), research scientist at the New Brunswick Institute for Research, Data and Training, uses administrative data to study population health and health services in New Brunswick. One of his recent projects studies the outcomes of low access to physician care. This work

will provide insight into how deficits in access to primary care are affecting the health of New Brunswickers and the sustainability of the province's health-care system, and is anticipated to underscore the importance of connecting more New Brunswickers with primary care providers.

By quantifying the health and economic toll of primary care deficits in the province, the research results will help inform and prioritize policy decisions surrounding health system management and spending. ■

Read more at [unb.ca/nbirdt/research/projects/impact-of-physician-access-and-continuity-of-care-on-health-outcomes-of-new-brunswickers-with-chronic-health-conditions.html](https://unb.ca/nbirdt/research/projects/impact-of-physician-access-and-continuity-of-care-on-health-outcomes-of-new-brunswickers-with-chronic-health-conditions.html)

## BIOCHEMISTRY RESEARCH PROVIDES GROUND BREAKING INSIGHT INTO THE PRODUCTION OF KEY CHEMOTHERAPY DRUG

**F**or decades, vinblastine has been an important medicine in chemotherapy regimens to treat a number of cancers and has helped save countless thousands of lives. In fact, the World Health Organization includes it on their list of essential medicines. And yet, in spite of its importance for modern, Western medicine, the world's commercial supply stems from a single, natural source: the Madagascar periwinkle. Since vinblastine's original discovery in 1958, and owing to its value and importance, there has been a significant amount of fundamental and applied research on the chemical, and on other, plant-derived medicinal alkaloids.

According to Dr. Yang Qu, UNB's cannabis health research chair, "today, related research on plant metabolites has yielded significant benefits for human health: about one-quarter of modern medicines are based on plant metabolites - including more than 60 per cent of antibiotic and anti-cancer drugs."

Bit by bit, researchers like Dr. Qu are getting to the roots of the understanding how these metabolic processes work. He is the corresponding author on a new paper published in *Nature Communications*, and his co-authors include three former students: Jasmine Eng (BSc'21) and Daniel Smith (BSc'22), and Mohammadamin Shahsavarani (MScEng'22).

In their research, the team discovered a previously unknown enzyme in the periwinkle plant, which accelerates a redox-neutral reaction highly unusual to its enzyme class, which is a reaction where no external oxidizing or reducing agent is involved. This particular reaction diverts the assembly of vinblastine toward three other alternative alkaloids.

This discovery doesn't simply advance knowledge of how the plant functions, it provides a new goal for periwinkle breeding and may well help save more lives by increasing our ability to produce vinblastine. ■

Read more at [blogs.unb.ca/research/2022/06/qu-research-periwinkle.php](https://blogs.unb.ca/research/2022/06/qu-research-periwinkle.php)

## NAVIGATING A CHILD'S IDENTITY AND DEVELOPMENT THROUGH BOOKS

**H**ow can stories help parents and children navigate a child's identity and development? That's a question two UNB education researchers – Dr. Pam Whitty (BEd'76, MEd'84) and Dr. Pam Malins – sought to explore in their recent project.

Their article, *Families' comfort with LGBTQ2S+ picturebooks: Embracing children's critical knowledges*, was published in the *Waikato Journal of Education*. It shares the research that Drs. Whitty and Malins undertook with parents as they explored the

question: "what are the comfort levels of families, with young children, as they encountered picture books featuring diverse gender and sexual identities?" Through their conversations with mothers, "they learned that all families were comfortable with each picture book category presented: gender expression, gender identity, gender harassment, and family composition."

Dr. Malins says that the study came about "because a lot of the literature that I had been exposed to while doing

my PhD suggested that parents were the reason that educators weren't necessarily having these conversations and had wondered if that was still the case."

"I was really trying to understand the community and how people feel about these conversations with young children. So, we connected and started talking." ■

*(Since publishing this research, Dr. Pam Malins has accepted a faculty appointment at Wilfred Laurier University)*

Read more at [blogs.unb.ca/newsroom/2022/08/identity-development-research.php](https://blogs.unb.ca/newsroom/2022/08/identity-development-research.php)

## CELEBRATING IDENTITIES AND COMMUNITIES TO CRAFT A BETTER FUTURE

**W**orking at the intersection of personal experience and professional practice, UNB PhD candidate Amelia Thorpe wants to create more opportunities to celebrate identity and difference. Amelia is part of the Pride/Swell project team, along with UNB associate professor of education Dr. Casey Burkholder.

In her research, she explores the "intersections between 2SLGBTQ+ activism and education as an individual who has been embedded in that advocacy." She looks at how "we can learn from community-led and collaborative spaces of activism to inform change in educational institutions."

Ultimately, she wants to understand "how schools and academic institutions can learn from work being done on the ground, from grassroots activism and from organizations that are focused on 2SLGBTQ+ community care and advocacy." ■

Read more at [blogs.unb.ca/newsroom/2022/08/amelia-thorpe-pride-swell.php](https://blogs.unb.ca/newsroom/2022/08/amelia-thorpe-pride-swell.php)



## LOOKING FOR LIFE AMONG THE STARS

**D**r. Allison Enright's research has her staring at the stars.

This summer, Dr. Enright, assistant professor of earth sciences, was a visiting scholar at Harvard University working on a research question that sounds straight out of science fiction: what might an alien form of life look like, and how would we know if we found it?

This project is part of an Interdisciplinary Consortium for Astrobiology Research (ICAR). "These are massive, five-year projects funded by NASA and carried out by teams of up to 50 or 100 scientists."

According to Dr. Enright, "the idea is to look for physical, chemical or other signs of life that would constitute a detection. The motivation for this approach is that we have no idea what kind of biochemistry we might expect

on an extraterrestrial planet. So, if we arrive only with instruments and research to look for carbon-based life, there's a good chance we could miss a detection simply because our methods would be limited to life as we know it. Since, to the best of our knowledge, life on Earth has been evolving on its own for four billion years, we expect to see some diversity in another planetary body." ■

Read more at [blogs.unb.ca/research/2022/08/enright-life-detection.php](https://blogs.unb.ca/research/2022/08/enright-life-detection.php)

## THE FUTURE MAY BE WARMER THAN WE THINK

**I**n a paper published in *Nature* and announced last summer, a group of researchers has identified a troubling new finding in the fight against climate change. Findings suggest that a key assumption about the ability of forests to sequester more carbon as climate changes may not hold true.

Dr. Loïc D'Orangeville, a forestry and environmental management professor, is one of the paper's authors.

According to Dr. D'Orangeville, current climate change models assume that temperate deciduous forests - a type of forest that includes maples and birches and makes up a large part of New Brunswick's forests - will grow more as temperatures increase and extend the growing season. This increased growth would increase the amount of carbon sequestered from the atmosphere, decreasing the rate of warming.

"Although climate change does induce a longer growing season, we observed that while trees started growing earlier, they also stopped earlier as well," says Dr. D'Orangeville. "Because trees only shifted and did not lengthen their total growth, we are unlikely to see the gain in carbon sequestration assumed by climate change models. This further highlights the need for our society to reduce its carbon emissions and not rely on nature to do the job for us." ■

Read more at [blogs.unb.ca/newsroom/2022/08/forest-climate-change-research.php](https://blogs.unb.ca/newsroom/2022/08/forest-climate-change-research.php)



# WORLD-CLASS

RESEARCH **AND** PRODUCTION  
*right here in N.B.*

Pat Whalen (BScChE'03) would probably say that spending time in the research lab was one of the keys to success for LuminUltra, the molecular diagnostic testing company he leads in Fredericton that now operates in six countries.

The lab has been a place he's felt comfortable in since he was just 15 years old.

The company was founded by his father, Phil Whalen (BScChE'70, MScChE'72), and in the early days, he recruited his teenage son, Pat, as a lab technician. Pat says that his father had a fervent belief that research could make a difference.

"Dad was a big believer in continuous improvement and always wanted to continue researching to do better and better in all facets of his life, from his profession as a consulting engineer to his passion for the game of golf."

Today, Pat carries on that tradition with the company, albeit not directly from the lab himself any longer. As chairman and CEO, he's constantly working to create market opportunities, find efficiencies and roll out new and better solutions for testing microbiological activity in water and wastewater. "Sometimes we can get a bit carried away with doing things better and faster, but I can't imagine how we would have gotten to where we are without that core philosophy of continuous improvement that was infused into the company from day one."

Day one was back in the mid-'90s when Phil Whalen and business partner Jim Cairns were just starting to explore new concepts in biological wastewater treatment optimization. Having worked for many years at NB Power after graduating from UNB, Phil used his knowledge of the power and environmental sectors to

begin consulting with coal mines, oil companies and power plants across North America to help them clean up their wastewater. He and Jim came up with the idea to apply a new testing technology that was just beginning to be used in industrial water applications that could identify many micro-organisms in a sample of water in real time, facilitating decision making in minutes instead of days.

"Dad realized he needed some more hands in the lab, so he tasked my brother, Tony (BScChE'94), to train me on the ins and outs of being a laboratory technician. That pretty much set me on the path towards chemical engineering, and I continued to work in the lab throughout my studies at UNB. It was at UNB where I learned how to learn. I was taught to think critically, how to critique and how to take critique. My time at UNB really taught me how to get beyond roadblocks and find solutions."



□ Christy Bitcon, director of human resources and administration, with Pat Whalen.



During the course of his studies, Pat took a summer co-op term in the Alberta oil patch.

It was there he realized that the core philosophy of continuous improvement is better executed in smaller, more nimble organizations. He rejoined his father and took LuminUltra's main product to market in 2003. "As with most entrepreneurial endeavours, it took twice as long and cost twice as much as we thought."

Unfortunately, Phil passed away in 2009. Pat, just 28 years old but already with more than a dozen years of experience in the field, took over as LuminUltra's CEO. Shortly after that, LuminUltra became profitable as a result of the extensive market development and continued product research in those early days.

In the years since, the company has continued to evolve, enhancing its line of products to include solutions that monitor and control microbes

in drinking water, manufacturing industries, energy applications and wastewater treatment. In 2018, they acquired another molecular diagnostics company focused on building next-generation DNA analysis tools, as well as opening offices in the United States and Europe. In 2019 they began working on automated monitoring and decision-support tools that would effectively lead to the world's first intervention-free applied molecular diagnostic solutions.

Then came 2020 and the COVID-19 pandemic.

Canada's prime minister put out a call to action in March for businesses to help in the fight against COVID-19, and LuminUltra quickly responded, applying its expertise in molecular diagnostic testing solutions to produce 500,000 COVID-19 clinical test kits per week for the national testing program. In 2020 alone, they manufactured and shipped components for more than 18 million test kits across Canada.

The company also collaborated with Dalhousie University to create and test a new product, resulting in patent filing for the world's first complete, rapid, and on-site COVID-19 wastewater testing solution – making non-invasive community health assessment far more accessible to communities and businesses around the world. This opened up a market opportunity to partner with the CDC for the National Wastewater Surveillance System, testing for the virus that causes COVID-19 in wastewater from hundreds of sites across the U.S.

To meet new demand, LuminUltra scaled up its operations by opening a new, multimillion-dollar, state-of-the-art manufacturing facility in Fredericton and doubling its employees. "We did in four months what would normally take four years. It really felt like we went to battle in 2020-21. It was one of the most stressful and also most rewarding times in my life."

**"Sometimes we can get a bit carried away with doing things better and faster, but I can't imagine how we would have gotten to where we are without that core philosophy of continuous improvement that was infused into the company from day one."**

Pat says that today, the company is now stabilizing and has made the strategic decision to exit the clinical diagnostic market and go back to its original focus - water. "We are incredibly proud to have been able to step up to the plate for Canada during a difficult time for our country. Every single thing that was asked of us - from the provision of mobile testing labs to chemical reagents for clinical tests - we delivered in full. It was a two-year tornado, and we're now in a far better position going forward. When the pandemic first arrived in

Canada at the start of 2020, our initial reaction was to batten down the hatches and prepare for a slower year. But we heeded the call to action and we did the right thing. I am forever grateful for the opportunity to step up and I'm proud of what our team accomplished."

As it moves forward, LuminUltra does so with 118 employees globally, 37 of those being UNB graduates (two long-time employees are Pat's university roommates, Derek Dunn (BScChE'03) and Dave Tracey (BScChE'02)). "We

love to hire UNB grads, and it goes to show you can be world-class from right here in New Brunswick. Our research and production capacity rivals the biggest and best in the world."

"We've grown bigger than Dad ever thought we would. He had the idea and I've been lucky enough to be able to employ fantastic people and partner with wonderful organizations around the world to help us succeed. It's been a great ride and I am excited for what the future holds." ■









ASSOCIATED ALUMNI





# Shyla O'Donnell

## Optimistic about Indigenous rights and culture and a sustainable future for Canadians

**U**nity. It's what Shyla O'Donnell (BScF'07) is most proud of.

For five years, she worked to create and lead The Wolastoqey Nation in New Brunswick, a non-profit organization formed in 2017 to help coordinate and provide technical support and consultative advice to the Wolastoqey Communities of New Brunswick on matters that relate to Wolastoqey constitutionally protected Aboriginal and Treaty Rights.

"The organization was formed to bring unity to the six Wolastoqey communities by providing technical advice to Chiefs and communities on topics the Chiefs want to unite on," says Shyla. "We did a huge amount of community engagement to understand how to build an organization that could bring people together through effective, targeted communication and be able to fully participate in government processes. We assembled a team with the ability to process highly technical information and engage on various issues of concern. We essentially created a unity office, and with so many other issues separately facing Chiefs and Councils, it was crucially

needed. We've been able to accomplish it by working together, and it's a huge win."

Shyla says it took moving around in various roles, travelling the world and living in different parts of the country to understand her passion and find the right place to make a difference.

She had originally enrolled in the science/kinesiology program at UNB before deciding it wasn't for her and transferring to forestry and environmental management. During her studies, she worked for a summer on biodiversity research in protected natural areas of the province. It re-ignited her passion for being outside in nature. She had grown up in Boiestown, N.B., and spent a lot of time in the woods, and her Indigenous background instinctually connected her with the earth. She spent subsequent summers travelling to work on different projects: entomology research on Vancouver Island, climate change research in Newfoundland and Labrador, and forestry management in Port McNeil, B.C. She also travelled to Europe, Australia and New Zealand, took up boxing and ran triathlons.

"I wanted to move around and explore what this country and world had to offer. It helped me build my confidence and find what excited me."

After she graduated, she was hired by the Province of New Brunswick as a forestry intern and worked toward a registered professional forester designation. She was able to move around with different departments and regions of the province and after two years landed in the Aboriginal affairs department. "It was a great experience and I learned a lot, including that we need to change forest management in the province to better incorporate Indigenous forest rights. Unfortunately, there was not enough political will or resources at that time to make it happen. There just wasn't enough movement in government for what I wanted to accomplish. But I came away with great relationships that have helped me with the work I've done and continue to do."

Shyla stepped away from government to work with St. Mary's First Nation in Fredericton and began a project to work with the Six Nations on building

consultation capacity. “It became evident to me that the constitutional duty to consult and accommodate was not being meaningfully implemented in New Brunswick.” Along with the Chiefs and others in the communities, she formed The Wolastoqey Nation in New Brunswick (WNNB), which accelerated quickly. “I spent a lot of time during the growth phase on change management, engaging people in the communities, and hiring. We grew a stellar team of advisors, lawyers, scientists, environmentalists, historians, financial experts, Wolastoqey youth and Elders. We built huge capacity to be able to work well in unison. This accomplishment was done as a team - with the Chiefs, staff, Elders and many in the communities coming together.”

Recently, Shyla’s taken on a full-time role as operations lead for SOAR Professional Services, an Indigenous-owned and operated company. Along with founder Ryan Dunbar (BScCE’03, MScCE’09), the team at SOAR is building capacity and taking on innovative projects across the country focused on reconciliation - with Shyla operating out of Victoria, B.C.

“I’m working on building our business in B.C. and specifically taking on projects focused on reconciliACTION. I’m not interested in talking about reconciliation any longer. What we need now is action.”

Shyla admits that her work can be challenging at times, especially while raising two young daughters. “There is so much work behind the scenes at a bureaucratic level. But I’m learning so much being here - in a province that’s further ahead on Indigenous rights than New Brunswick is. I hope to keep close ties with N.B. and bring back knowledge gained from seeing what’s working here.”

Despite the challenges, Shyla continues to advocate for forest stewardship and Indigenous rights. She remains hopeful that we’re moving closer to a green economy and zero-emissions world, and one which is moving

further along with solving major social issues that exist.

“I hope my daughters live in a world that’s more respectful of the earth and each other. I hope they have access to Wolastoqey language programs and feel a massive amount of pride in their Indigenous heritage. I have a long-term vision of where New Brunswick and Canada can get to, and I choose to remain hopeful that will be accomplished.” ■







# REUNION WEEKEND

**Reunion Weekend 2022 was a huge success.  
Recognize anyone in these photos?**

Come back to the Fredericton campus from June 1 to 4 for Reunion Weekend 2023. We will be celebrating the golden grads of 1973 and many other reunion groups.

Want to plan a reunion for your class or affinity group? Reach out to Shonda Irving Cotton at [reunions@unb.ca](mailto:reunions@unb.ca) to see how we can help.

Visit [unb.ca/reunionweekend](http://unb.ca/reunionweekend) to stay up to date on the latest plans and to watch the highlights from Reunion Weekend 2022.

SAVE THE DATE FOR  
**REUNION WEEKEND 2023**  
**JUNE 1-4**

*We can't wait to see you!*  
**Visit [unb.ca/reunionweekend](http://unb.ca/reunionweekend)**







# Alumni GATHERINGS

Brisbane, Australia



Fredericton - Men's  
Hockey Fellows Society  
Reunion Weekend 2022



Calgary - Lobster Boil







Edmonton

Ottawa - Redblacks Game



Southwestern Ontario



Vancouver



# THANK YOU *Mary*



**A**fter nearly three decades of profound contributions to UNB, Associated Alumni Assistant Director Mary Duffley is retiring on Dec. 30. The deep legacy she leaves will be felt across our campuses, within our internal UNB community and with our proud alumni family for decades to come. Her dedicated commitment to the Alumni Office has led to a number of integral initiatives, traditions and events in support of our students and alumni.

“ My mother worked at UNB in the early days, with Colin Mackay and Barry Beckett so I was introduced to UNB Saint John when I was young. She would tell stories of her day at the supper table about many of the people I came to know when I started in 1993. I never imagined I would be working here this long and also retire from the same place as my mother. ”

To share well wishes for Mary, send them to [alumni@unb.ca](mailto:alumni@unb.ca) ■

Mary started the alumni honour guard at fall Convocation in 2002, and led it for its entire 20-year history.





Mary started the Graduate Student Leaders Program in 2005.

“My proudest initiative was the Grad Leaders Program that I started with the executive of the day in 2005. Recognizing student leaders for 17 years is pretty special.”



In 2009, Mary received an honorary alumni designation by the Associated Alumni.



Mary carried on the tradition of the alumni toast as part of UNB Saint John's Convocation ceremonies.

“The hundreds of alumni whom I have connected with over the years - many of whom are now friends - has been wonderful. Not to mention, the many events I have been part of: years of golf tournaments, graduations - I have never missed one Convocation over the years.”



In 2004, Mary introduced the graduation class photo, and has adorned her office with all 18 photos.



# Supporting Future Alumni

ALUMNI STUDENT LEADERSHIP AWARD

The Alumni Student Leadership Award is presented each year to undergraduate students who have demonstrated outstanding leadership through involvement in extracurricular activities on campus and in their community.

## 2022 Award Recipients



### Houda El Hajjaoui (BScChE)

Houda is a chemical engineering student who has been actively involved on campus and in the community. She is the communications director for Shades of Change, an organization designed to advocate for a kinder and more respectful environment for people of colour. Houda has also taken on many leadership roles such as events director and councillor for the engineering society.



Staying here at UNB and pursuing my passion in renewable energy, while also being able to be an important part of this community has been a special moment in my life that I hope will last as long as possible.





### **Callum Hunter (BPhil)**

Callum, a Renaissance College student, has been heavily involved in her faculty and campus life. She has served as a residence proctor and represented UNB in the community through her volunteer work with hospice and L'Arche.



I am truly so grateful for the opportunities I've had to get to know my UNB community better, and I hope that my engagement in my faculty and in residence have helped others to find their place and their passion here as well. //



### **Kate Palmer (BSc)**

Kate, a science student on the UNB Fredericton campus, is not afraid to tackle uncomfortable topics to improve student life. Kate's involvement on campus includes advocating for mental and menstrual health. Her community volunteer work includes Liberty Lane, a shelter for women and children who are victims of domestic abuse.



My experience has deeply instilled my sense of pride in the UNB community, and I hope my contributions leave a long-lasting impact. //



### **Ridhi Sharma (BN)**

Ridhi, a nursing student on the UNB Fredericton campus, has previously served as the Student Union's vice-president internal, in addition to holding many other student and volunteer roles. Ridhi is committed to student wellness, supporting diversity, and advocating for academic resources for students.



I am proud to be part of the UNB community and will continue advocating for student experiences and further serve the community provincially and nationally. //

# ALUMNI COUNCIL

## *New Council Members*



**Chris Weir (BA'93, BEd'95)**

**Saint John, N.B.**

Chris is director of customer development at Mariner Partners, Inc. He also works part-time at UNB, teaching in the MBA program. Chris says that UNB has been an important part of his professional and personal life. "I met my wife, Shelley, at UNB Saint John and we have been married for 30 years. Both of our children studied at UNB. One has moved on to graduate school in the United States and the other is in her third year." Chris joined alumni council to continue his commitment to UNB. He has been an active alumni member for more than 20 years, has raised funds for the university, and is "proud of my family legacy here." ■



**Shawn Quinlan (BBA'94, MBA'96)**

**Buchans, N.L.**

Shawn is the director of human resources and administration/assistant general manager at Skillsoft Canada. He has volunteered his time with UNB for more than 15 years, first on the advisory board of the faculty of management (then the faculty of administration), and more recently has lent his time as a panellist and mentor for several Associated Alumni Career Talks events. Shawn says that the faculty and staff at UNB Fredericton helped "mould me as a professional and drove my curiosity." He wanted to join the alumni council, because "I have an interest in paying forward the opportunities that I received at UNB as a student." ■

## RETURNING MEMBERS

### **PRESIDENT**

**Jill Jeffrey** (BPE'82, BEd'83)

### **VICE-PRESIDENT**

**Jennifer Sutherland Green** (LLB'99)

### **TREASURER**

**Beverly Guimond** (BBA'04)

### **SECRETARY**

**Andrew Martel** (BCS'15)

### **SAINT JOHN REP.**

**Olive Ozoemena** (MBA'16)

### **PAST PRESIDENT**

**Peter Syroid** (BScME'98, D-TME'98, MBA'03)

### **COUNCILLORS**

**Sarah Birch** (BBA'01, LLB'04)

**Stephanie Fox** (BBA'04)

**Ian Hardy** (BBA'07)

**Erin Stafford** (BSc'08)

### **UNB PRESIDENT**

**Paul Mazerolle** (BA'89)

### **REPRESENTATIVE FROM THE ASSOCIATED ALUMNAE**

**Jane Kidney-Hermelin** (BBA'97)

### **ASSOCIATION EXECUTIVE DIRECTOR**

**Michelle McNeil** (BBA'03, MBA'09) ■



# PROUDLY UNB AWARDS 2023

*– Save the Date –*

**Join the UNB Associated Alumni on April 21  
in Saint John as we recognize the 2023  
Proudly UNB award recipients.**

Alumni of UNB are changemakers, distinguishing themselves through outstanding service to their alma mater, their communities, province, country, and beyond. The Proudly UNB awards recognize these outstanding alumni and demonstrate our pride in their accomplishments.

**Visit [unb.ca/proudly](https://unb.ca/proudly)**

**for more on the Proudly UNB awards.**



# *Improving* the Culture of Wildland Fire in Canada

**M**aria Sharpe (BScF'07) didn't fall far from her family tree when she followed in her father's footsteps to study in UNB's faculty of forestry and environmental management. Now working as the fire science manager with the Canadian Interagency Forest Fire Centre (CIFFC) in Alberta, Maria is helping to improve the culture of wildland fire in Canada.

In her role with CIFFC, Maria provides leadership to a diverse group of committee members representing the provinces, territories, Parks Canada, the Canadian Forest Service, and non-government agencies. She also co-leads annual post-fire season discussions on behalf of CIFFC, in conjunction with Canada Wildfire and Canadian Forest Service and hosts monthly fire management conversations.



“

*Now more than ever though, we are seeing women in significant leadership roles, and I strongly believe there is huge momentum building and finally propelling women into the positions they deserve.*

”

“In wildland fire, we have two busy seasons,” says Maria. “In the winter I’m facilitating strategic planning meetings or working with committees and working groups to determine how we can best improve the culture of wildland fire in Canada.”

“In the summer, I focus internally to support Canadian wildland fire management efforts by filling in as the CIFFC duty officer or CIFFC rep embedded within a busy provincial or territorial fire center to help support the coordination of resources within Canada or internationally.”

Maria says the opportunity to work outside has always reassured her that she made exactly the right career choice. But her career in forestry has certainly also come with its own set of unique challenges.

Though she didn’t recognize it at the time, entering the forest industry as a woman in the early 2000s was a significant challenge. Today, many of the same obstacles exist for women entering the field, including personal protective equipment still being largely designed for men.

“Now more than ever though, we are seeing women in significant leadership roles, and I strongly believe there is huge momentum building and finally propelling women into the positions they deserve.”

Maria says UNB’s forestry program provided her with a solid foundation of integrated resource management that positioned her well to fully consider the impacts of forestry-related decisions. Since her studies at UNB, Maria has worked in several unique roles in the industry including as a forest ecologist, woodlot manager, communications officer, silviculture forester, and wildfire management specialist.

“From what I see, this unique and engrained understanding and consideration appears to be particularly strong within the UNB graduates I’ve worked with throughout my career. I am also convinced that my strong leadership and management skills harnessed during my days at UNB have given me the confidence to lead strong and diverse national teams.”

Truly passionate about her field of work, Maria loves that there is still so much about the forests and people – and how they interact – that we have yet to understand. She hopes that one day, like her father, her love for forestry will translate to feeling like she has “never worked a day in her life.” ■

# LEGACY LIVES ON

## *in inaugural scholarship*

**E**ddy (DSc'22) and Diane Campbell were a driving force behind UNB for a decade. While Eddy, as UNB's 18th president and vice-chancellor, was the face of the university, Diane worked quietly behind the scenes. Among other duties, she planned and hosted a myriad of events at her home for students, alumni, and friends of the university, taking care to remember details – like the names of guests' children – that help to foster connection. "She worked really hard at the job of being the spouse of the president," Eddy says, adding jokingly that she was his "social manager."

The couple was a few months from retirement – for which they had many plans and intended to spend in Diane's hometown of St. John's, N.L. – when Diane passed away suddenly from lymphoma in October 2018.

In the years before her death, the couple had established a scholarship fund. Eddy saw a need for increased support for students at the graduate level. Since Diane was a nurse and Eddy a mathematician, they decided on an award that would alternate between those two fields. After Diane's death, friends and family generously contributed to the scholarship fund in her name.

The Diane Brennan Campbell Scholarship, valued at up to \$12,000, is awarded to an outstanding full-time graduate student studying in the field of nursing or mathematics and statistics on either the Fredericton or Saint John campus. Selection is based on academic achievement and significant contributions to the recipient's academic or professional field.

The first recipient of the Diane Brennan Campbell Scholarship, Ruth Lue, is a third-year student in the master of nursing program. "It's an absolute honour to be the inaugural recipient of this prestigious award," says Ruth. "Receiving the Diane Brennan Campbell Scholarship has been an encouragement to remain dedicated to my passions and to continue to strive for excellence. This award has served as a massive investment in the development of my career and has provided reassurance to my family (and my lovely son) for their many sacrifices in my pursuit of a master's degree. My gratitude overflows."

Three years out from his retirement as president, Eddy is still passionate about the work of UNB. He still emphasizes the importance of its being the "university for New Brunswick," and is still inspired by its people. "UNB is full of people who believe they're helping to build a better province. They do it through their research, through their teaching, through the way they mentor their students ... there's a real passion for the institution and the work that we're doing," he says.

In May, Eddy was granted an honorary doctor of science degree from UNB in recognition of his significant and lasting impacts on the university, including his dedication to implementing the

recommendations of the Truth and Reconciliation Commission and his tremendous fundraising success, doubling the university's endowment. In his speech, he offered graduates some advice by quoting Winston Churchill: "When you find yourself in hell, don't stop."

"I interpret that phrase as 'keep going.' No matter what is happening in your life, keep going. In some ways, it's your job to be your best self, to realize the potential that you have," he said.

Eddy is grateful for the opportunity this scholarship offers to keep Diane's memory alive. "She was just such a wonderful person, and this is a nice way to remember her, which is also one of the reasons why I'm looking forward to connecting with the students who hold the scholarship – I'll get to tell them about her," he says, adding with a laugh, "whether they want to hear it or not!"

"Grief, they say, is the price you pay for love," he adds, "And it's far better to be grieving than not to have loved." ■



# Largest ENDOWED SCHOLARSHIP *in UNB history*



**U**NB's largest scholarship endowment, the Betts/Wilbur Memorial Scholarship, has grown to nearly \$6 million thanks to the generous support of Dr. David Betts and his late wife, Dr. Wendy Betts.

Valued at \$44,000 over four years and awarded to graduates of New Brunswick high schools, the Betts/Wilbur Memorial Scholarship is one of UNB's most prestigious awards.

Since its inception in 2009, 62 Betts/Wilbur Scholars have benefited from the scholarship. There are currently 21 Betts/Wilbur Scholars at UNB.

David (BSCEE'59, DLitt'14) and Wendy Betts (BA'63, DLitt'14) established the Betts/Wilbur Memorial Scholarship as a way to give back to the province and the university that had given them so much. A Beaverbrook Scholar himself, David knows firsthand the tremendous value of scholarships - value that extends throughout a recipient's life.

The Betts/Wilbur Memorial Scholarship was established in honour of David's parents, LeRoi and Audrey Betts, and his teacher at Derby Superior School, Aletha Wilbur. "My dad was a tireless worker on the family farm and in the fishing business and he served the community in many ways. He encouraged us to not follow in his footsteps, but instead to

pursue a higher education," says David, adding that under the tutelage of Aletha Wilbur, nine students from the tiny three-room school went on to attend UNB.

The 2022-23 Betts/Wilbur Scholars are:

- Konan Brown of Saint John, enrolled in the bachelor of science program on the Saint John campus;
- Dryden Doucette of Saint John, enrolled in the bachelor of science program on the Saint John campus;
- Kallum Fletcher of Richibucto, enrolled in the bachelor of science in engineering program on the Fredericton campus;
- Lily Glazier of Miramichi Bay, enrolled in the bachelor of science program on the Fredericton campus;
- Gabe Keith of Petitcodiac, enrolled in the bachelor of business administration program on the Fredericton campus;

➤ Braeden Martin of Miramichi, enrolled in the bachelor of computer science program on the Fredericton campus; and

➤ Jessica Palmer of Nerepis, enrolled in the bachelor of science program on the Fredericton campus.

"It means a great deal to us at UNB when alumni like David and Wendy Betts feel inspired to give back, and the Betts/Wilbur Memorial Scholarship represents the very best kind of full-circle generosity," says UNB's President and Vice-Chancellor, Dr. Paul Mazerolle. "David came to UNB on a Beaverbrook Scholarship. Like Lord Beaverbrook, he is ensuring that generations of New Brunswickers will have all the benefits of a UNB education and a community of fellow scholars that lasts a lifetime." ■



# Congratulations

to the first  
Good Energy scholars

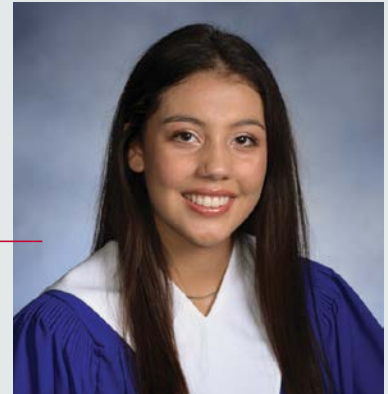


**Estella Calderon**

Richibucto, NB  
Bachelor of Health

**Veronica Garcia**

Florenceville-Bristol, NB  
Bachelor of Nursing



**Kaley Paul**

Fredericton, NB  
Bachelor of Science

**Chani Salomon**

Riverview, NB  
Bachelor of Nursing



With a commitment to putting good energy in action and creating learning opportunities to empower the next generation, Irving Oil is proud to support University of New Brunswick students and encourage diverse, sustainable and equitable communities.

The Good Energy Scholarships offer assistance to New Brunswick students beginning an undergraduate degree program at UNB, with a focus on supporting students from underrepresented groups. Valued at \$40,000 over four years, selection is based on academic achievement, community impact, volunteerism and extracurricular activities.

We wish the inaugural class of Good Energy scholars, and all students, a great year ahead!



[unb.ca/goodenergyscholarship](http://unb.ca/goodenergyscholarship)

# SCHOLARSHIPS, AWARDS *and* BURSARIES

*Thanks to our donors, the following scholarships, bursaries and prizes not only support students during their studies, but throughout their lives.*

## AOV AND FSD LAND SURVEYORS BURSARY

**FIELD:** Geodesy and Geomatics Engineering  
**VALUE:** \$2,000      **NUMBER:** 1      **DURATION:** 1 year  
**DONOR:** Annis, O'Sullivan, Vollebekk Ltd.; and Farley, Smith and Denis Surveying Ltd.

Awarded on the basis of financial need to a student on the Fredericton campus enrolled in the bachelor of science in engineering (geodesy and geomatics). Preference will be given to students in their third or fourth year. The recipient must demonstrate successful academic performance.

## MARY DABLE ARAB BURSARY

**FIELD:** Business Administration  
**VALUE:** \$1,000      **NUMBER:** 1      **DURATION:** 1 year  
**DONOR:** Mary Dable Arab (BBA'93)

Awarded based on financial need to a Fredericton campus student enrolled in the bachelor of business administration degree program. The recipient must demonstrate successful academic performance.

## BAMFORD FAMILY BURSARY

**FIELD:** Business  
**VALUE:** \$1,000      **NUMBER:** 1      **DURATION:** 1 year  
**DONOR:** Joe and Fatima Bamford and the Bamford family

Awarded based on financial need to a Fredericton campus student enrolled in the bachelor of business administration degree program. The recipient must be majoring in marketing, and demonstrate successful academic performance.

## ANDREW BOYLE MEMORIAL BURSARY

**FIELD:** Computer Science  
**VALUE:** \$500      **NUMBER:** 1      **DURATION:** 1 year  
**DONOR:** Friends of Andrew Boyle

Awarded based on financial need to a Fredericton campus student who has completed at least the minimum requirements for the first year of a bachelor of computer science degree program. Pending no suitable candidate, applicants from concurrent bachelor of computer science/bachelor of science degree program or the bachelor of arts/bachelor of computer science degree program will be considered. The recipient must demonstrate successful academic performance. Preference will be given to applicants from the Moncton/Riverview region.

## JACQUES AND BERNADETTE DEGRACE SCHOLARSHIP

**FIELD:** Unrestricted  
**VALUE:** \$1,500      **NUMBER:** 1      **DURATION:** 4 years  
**DONOR:** Michele A. Thebeau (BScEE'84) and the New Brunswick University Opportunities Fund

Awarded to a student who is a graduate of École Sainte-Anne High School and is beginning an undergraduate degree program on the Fredericton campus. Selection is based on academic achievement, financial need and extracurricular activities. The recipient must be a New Brunswick resident, according to the definition of the Provincial Government's Student Financial Services guidelines. One scholarship will be active at any given time.

## DWIGHT AND FAY FRASER SCHOLARSHIP

**FIELD:** Computer Science  
**VALUE:** \$1,000      **NUMBER:** 1      **DURATION:** 4 years  
**DONOR:** Dwight and Fay Fraser, through The McKenna Institute

Awarded to a student who is enrolled in the bachelor of computer science, bachelor of science in computer science or bachelor of science in software engineering degree program. Selection will be based on academic achievement. Consideration may be given to financial need. Preference will be given to a graduate of Woodstock High School, Carleton North High School or Canterbury High School.

## JOHN GOLTZ MEMORIAL BURSARY

**FIELD:** Geodesy and Geomatics Engineering  
**VALUE:** \$1,500      **NUMBER:** 1      **DURATION:** 1 year  
**DONOR:** Members of the Eastern Regional Group Ontario Land Surveyors

Awarded on the basis of financial need to a student on the Fredericton campus enrolled in the bachelor of science in engineering (geodesy and geomatics). Preference will be given to students in their third or fourth year. The recipient must demonstrate successful academic performance.

## GOOD ENERGY BURSARY

**FIELD:** Unrestricted  
**VALUE:** \$1,000      **NUMBER:** Multiple      **DURATION:** 1 year  
**DONOR:** Irving Oil

Awarded based on financial need to a student enrolled in an undergraduate degree program. The recipient must demonstrate successful academic performance and be a Canadian citizen or permanent resident.



## SCHOLARSHIPS, AWARDS *and* BURSARIES

### GOOD ENERGY SCHOLARSHIP

**FIELD:** Unrestricted  
**VALUE:** \$10,000      **NUMBER:** 4      **DURATION:** 4 years  
**DONOR:** Irving Oil

Awarded to students beginning an undergraduate degree program. Selection is based on academic achievement. Consideration may be given to students who are actively involved in community volunteerism and extracurricular activities. The recipients must be graduates of a New Brunswick high school. Preference will be given to students in underrepresented groups.

### GERRY JOUDREY SCHOLARSHIP

**FIELD:** Forestry or Science  
**VALUE:** Min \$5,000      **NUMBER:** 1 or more      **DURATION:** 1 year  
**DONOR:** Gerry Joudrey (BScF'74)

Awarded to Fredericton campus students who have completed at least the minimum requirement for the first year of the bachelor of science in forestry, bachelor of science in environment and natural resources, or bachelor of science degree program. Selection will be based on academic achievement (minimum 3.0 scholarship grade point average). Consideration may be given to leadership qualities and community involvement. The recipients must be from one of the Atlantic provinces, with preference given to students from Nova Scotia.

### PETER C. KELLY HOCKEY SCHOLARSHIPS

**FIELD:** Unrestricted  
**VALUE:** \$2,500      **NUMBER:** 2      **DURATION:** 1 year  
**DONOR:** The estate of Peter C. Kelly

Awarded to Fredericton undergraduate or graduate students who have demonstrated talent in the field of UNB Reds hockey. The recipients must have achieved a 2.0 grade point average for continuing students or an 80 per cent scholarship average for high school students, as per U SPORTS regulations. One scholarship will be awarded to a member of the UNB Reds women's hockey team, and one will be awarded to a member of the UNB Reds men's hockey team. This award is open to transfer students, as well as students who are enrolled in a minimum of nine credit hours.

### JACK, LOIS AND CINDY KIDD BURSARY

**FIELD:** Unrestricted  
**VALUE:** \$6,000      **NUMBER:** 1      **DURATION:** 4 years  
**DONOR:** Greater SJ Community Foundation

Awarded based on financial need to a student beginning an undergraduate degree program on the Saint John campus. The recipient must demonstrate successful academic performance and be a graduate of a high school in Greater Saint John. Preference will be given to a student who participates in extracurricular activities.

### DUNCAN MACDONALD STUDENT VENTURE ANALYST AWARD

*One or more prizes valued at a minimum of \$2,000 each will be awarded annually on the recommendation of the faculty of management, in conjunction with the professor of the venture assessment course and program coordinator, to outstanding students who have completed the assessment course and exceeded the course requirements. The recipients must demonstrate due diligence, balanced and concise summations, and provide strategic feedback within their assessments and contribute to the annual report of the Fraser Student Venture Fund. The prize has been donated by Duncan L. MacDonald (BBA'68).*

### PHILIP MAVOR SCHOLARSHIP

**FIELD:** Unrestricted  
**VALUE:** \$10,000      **NUMBER:** 3      **DURATION:** 1 year  
**DONOR:** Philip Mavor (BA'49)

Awarded to students enrolled in an undergraduate degree program. Selection will be based on academic achievement and financial need.

### FRANCIS J. "FRAN" MCHUGH MEMORIAL SCHOLARSHIP

**FIELD:** Unrestricted  
**VALUE:** \$1,000      **NUMBER:**      **DURATION:** 1 year  
**DONOR:** Family of the late Francis J. (Fran) McHugh

Awarded to a Saint John campus student who has completed at least the minimum requirements for the first year of an undergraduate or graduate degree program. The recipient must demonstrate dedication in the field of varsity athletics and have achieved at least a 3.0 grade point average. Consideration will be given to a student's involvement in community and extra-curricular activities.

### NURSING CLINICAL PLACEMENT TRAVEL BURSARY

**FIELD:** Nursing  
**VALUE:** \$225      **NUMBER:**      **DURATION:** 1 year  
**DONOR:** Carole Peacock (BA'65)

Awarded on the basis of financial need to Canadian and international nursing students completing clinical placement enrolled in an undergraduate or graduate degree program on the Fredericton, Moncton or Saint John campus. This bursary is open to students enrolled in full-time and part-time studies. The recipients must demonstrate successful academic performance.

### CAREY A. RYAN BURSARY

**FIELD:** Unrestricted  
**VALUE:** \$1,000      **NUMBER:** 1      **DURATION:** 1 year  
**DONOR:** Carey A. Ryan (BA'70, PD-Ed'78, MEd'79)

Awarded based on financial need to a full-time or part-time mature woman student enrolled in an undergraduate degree program. The recipient must demonstrate successful academic performance. The awarding of the bursary will alternate each year between the Fredericton and Saint John campuses.

**VISIT [UNB.CA/GIVING](http://UNB.CA/GIVING)**  
*for information on creating scholarships.*

The Arthur and Sandra Irving Primrose Scholarship

# CONGRATULATIONS TO THE 2022 RECIPIENTS



## KIERSTEN HAMILTON

Miramichi Valley High School  
Bachelor of Health



## MORGAN HASLETT

Centre scolaire Samuel-de-Champlain  
Bachelor of Health



## KATELYN LEBLANC

Simonds High School  
Bachelor of Health



## AVA YERXA

Fredericton High School  
Bachelor of Health



## RUHAMMA ZAHEEB

Harbour View High School  
Bachelor of Health

## THE ARTHUR AND SANDRA IRVING PRIMROSE SCHOLARSHIP

The Arthur and Sandra Irving Primrose Scholarship is an undergraduate award valued at \$10,000 per year. It is renewable over a four-year period for a total value of \$40,000. The scholarship is awarded to students entering UNB Saint John, recognizing academic achievement, community involvement and athletic leadership.

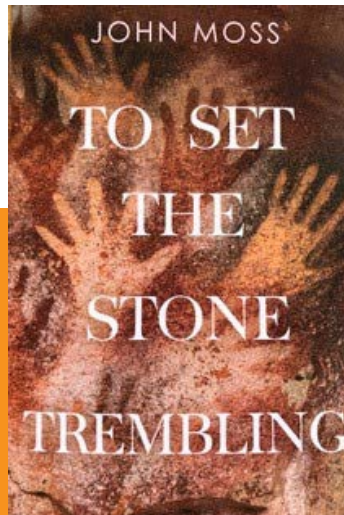
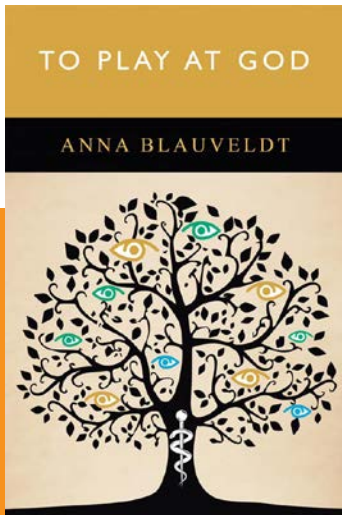
The Primrose scholars are leaders of tomorrow who serve as important mentors and inspire others, making a positive impact on our communities.

[unb.ca/primrose](http://unb.ca/primrose)





# Fall/Winter Reading BOOKSHELF



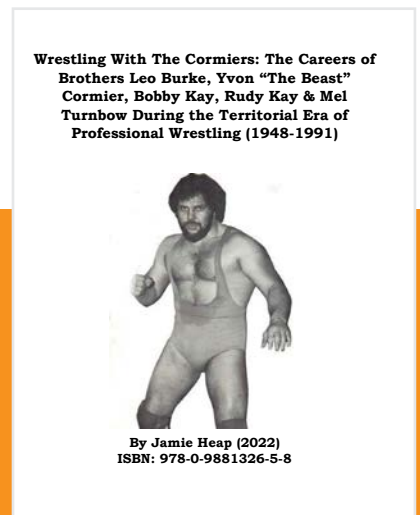
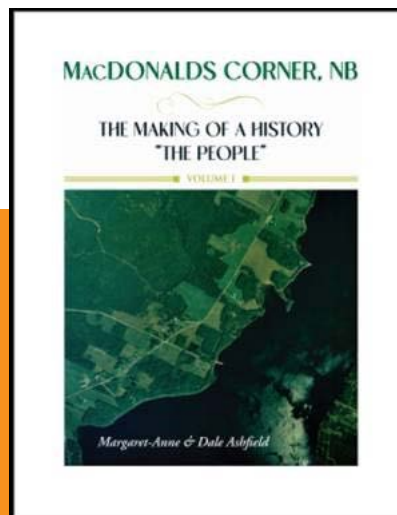
We welcome submissions about recent books by our alumni. If you have been published, send the name of the book, your name, the publisher, the ISBN and a cover image to [alumni@unb.ca](mailto:alumni@unb.ca). Don't forget to include your UNB degree(s).

## To Play at God

By: Anna Blauveldt (BA'74)  
 Publisher: Publerati, U.S.  
 ISBN: 978-1-7350273-9-5

## To Set the Stone Trembling

By: John Moss (PhD'73)  
 Publisher: Vanguard Press  
 ISBN: 978-1-80016-322-5

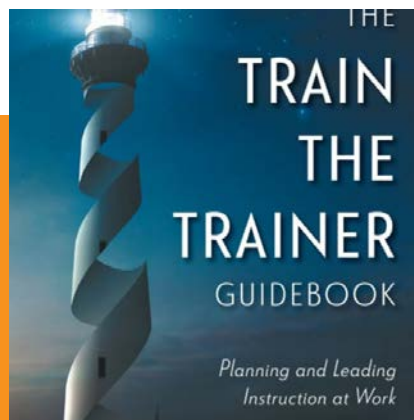
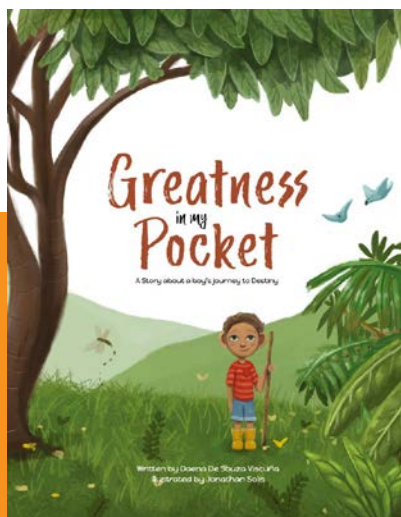


## MacDonalds Corner, NB: The Making of a History of "The People"

By: Dale Ashfield (BSc'70, BEd '71)  
 and Margaret-Anne Ashfield  
 Publisher: Queens County Heritage  
 ISBN: 978-1-7780491-1-8

## Wrestling with the Cormiers

By: Jamie Heap (BEd'01)  
 Publisher: The Head of River  
 Publishing  
 ISBN: 978-0-9881326-5-8



**Greatness in My Pocket**

By: Daena De Souza Viscuna (BBA'07, MEd'12)

Publisher: self-published

ISBN: 9789769 670617

**F.R.Y. First Responders Yoga**

By: Julia Long (BBA'90) and Sasy Cacace

Publisher: FRYCanada

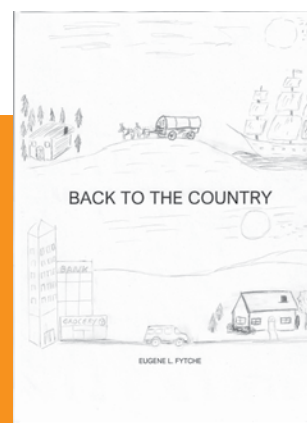
ISBN: 979-8702422213

**The Train the Trainer Guidebook**

By: Marg Wall (MEd'92)

Publisher: Friesen Press

ISBN: 978-1-03-914099-8



**A Stunning Backdrop – Alberta in the Movies, 1917-1960**

By: Mary Graham (BA'86)

Publisher: University of Calgary Press

ISBN: 1773853937

**Back to the Country**

By: Eugene L. Fytche (BScEng'47)

Publisher: self-published

ISBN: 978-0-9809420-4-0



## HITHER & YON

# Here is what some of our *Alumni* have been up to this year

Entries may be edited for length. Visit [unb.ca/alumninewsmagazine](http://unb.ca/alumninewsmagazine) for the complete Hither and Yon.

'65

**ALEXANDER D. MCNAUGHT** (BPE, BA'66, MEd'73) of Wallbridge, Ont., was awarded the Sovereign's Medal for Volunteers by the Governor General of Canada for his restoration/preservation of a historic site – the Old Sidney Town Hall Park in Wallbridge, Ont. – and the installation of 11 commemorative plaques and cairns to honour historic people and events, as well as publishing his book, *A Place Called Walbridge*, a the local history of the home of Ontario's oldest municipal government, est. 1790. The SMV is the highest honour for volunteer service that an individual can receive within the Canadian Honour System.

The citation said: "For more than a decade, Alex McNaught has been promoting Wallbridge's rich history through his leadership and contributions to the Old Sidney Town Hall Park Restoration Project. His coordination of this endeavor and his conceptualization of historical plaques has preserved the area's history and made it available to residents and visitors."

'66

**JOHN BOILEAU** (BA) of Bedford, N.S., was awarded the Queen Elizabeth II Platinum Jubilee Medal by the Lieutenant-Governor of Nova Scotia at a ceremony in Government House, Halifax. The award is for his "service to volunteerism," specifically his time as a member of the No. 2 Construction Battalion National Apology Advisory Committee. This resulted in an apology from Prime Minister Justin Trudeau to

the men and descendants of those who served in No.2, an all-Black unit, for the racism and discrimination they faced before, during and after their service to Canada in the First World War.

'77



**ROBERT QUARTERMAIN** (BSc, DLitt'09) is a 2022 inductee of the Canadian Mining Hall of Fame.

'84

**GORDON BROWN** (BScEng, BA'93) of Quebec City, Que., retired as academic dean of John Abbott College in Sainte-Anne-de-Bellevue in June 2022, and has returned to Quebec City and nearby St-Laurent on Île d'Orléans. He will continue as a member of Quebec's Conseil supérieur de l'éducation, an advisory board for the ministers of education and higher education, and is currently chairing its committee on the teaching profession.

'85



**P.E.I. CLASS REUNION:** a great time was had by all on P.E.I. this past July. Twenty "girls" from the UNB BN Class of '85 gathered for their 37th reunion. We are a group that has stayed connected! Our 10-year reunion was in 1995, our 25th in 2010 and five more get together since then!

We enjoyed a lot of fun activities, Anne the musical, lobster supper, beach time, group BBQ at our cottage's campground, visiting Dalvay By the Sea, the Dunes Art gallery and anywhere the roads would take us. One thing that never changes is talking nonstop, playing "our" music, dancing and lots of laughs. We had three girls who we had not seen in 37 years and we all picked up as if it were yesterday. As our Facebook group is called, UNB Nursing Grads & Still Rocking!

In the photo are: Eileen Larkin, Marion Harris-Barter, Beverly Dunstan-Barkholz, Elaine McGuire, Carmel O'Shea, Jody Ainsworth-Eyer, Marg Milburn, Angela Snyder, Debbie Stewart, Barbara Walls, Terri Drover, Deborah Hawkins, Margaret Coleman-Russell, Karen Ward Cheeseman, Sandra Clouston, Tracy Busson, Kathy Foreman-LeBlanc, Martha Vickers, Judy Wood, and Jeannie Underhill-MacWilliams.

'86

**DAMIEN HORIGAN** (MA) of Okinawa, Japan, had his essay *What can a dramedy teach us about America's longest war?*, published in Joel R. Campbell's *Politics Go to the Movies: International Relations and Politics in Genre Films and Television*. Lanham, MD: Lexington Books, 2022.

**JOHN CLARK** (BBA) of Woodstock, N.B., in December 2021, was awarded his fellowship in recognition of his outstanding achievements, knowledge and contribution to the accounting profession in New Brunswick. John completed his two-year term as chair of CPA NB in June 2022 after having served the past six years on the Board with CPA NB.

'92

**SEAN MITTON** (BBA) of Cary, U.S., co-authored *When Canada Shut Down*, for the 50th anniversary of the historical '72 Summit Hockey Series. It includes 72 unique stories with the foreword

written by Paul Henderson. During the 40th anniversary, Mitton co-authored *The Goal That United Canada*.

'97

### Jason Sherwood named President and CEO of Atlantic Industries Limited

Mike Wilson, P.Eng., Chief Executive Officer of The AIL Group of Companies, is pleased to announce the appointment of Jason Sherwood, P. Eng. as President and Chief Executive Officer of Atlantic Industries Limited (AIL), effective April 4, 2022. He will be working out of AIL's new Cambridge, Ontario, office.



Jason Sherwood, P. Eng., UNB BScCE'97, President and Chief Executive Officer Atlantic Industries Limited

Joining AIL in 1998, Mr. Sherwood has held increasingly senior positions with AIL, including his most recent role as VP Operations, Western Canada and International.

He has also been very active in his professional community over the years, serving as President and a Director of The Canadian Steel Pipe Institute (CSPI) and Chair of the Service and Supply Sector for The BC Road Builders & Heavy Construction Association. He is currently an active member with The National Corrugated Steel Pipe Association (NCSIPA), ASTM International, The American Railway Engineering and Maintenance-of-Way Association (AREMA) and The Association of Professional Engineers and Geoscientists of British Columbia (APEGBC).

With a head office in Cambridge, Ontario, and sales/engineering offices and manufacturing plants across Canada, Atlantic Industries Limited is an award-winning innovator of engineered solutions in structural plate bridges and tunnels, prefabricated bridges, pipe and drainage solutions, retaining walls and abutments, sound barrier walls and specialty products. AIL International extends the Company's global reach and supports licensees in Europe and Australia. AIL has qualified as one of Canada's Best Managed Companies for the last four years.



Atlantic Industries Limited

ail.ca

'06

**DAVID MALLESON** (BA) of Enfield, Middlesex, England, married Ms. Fernanda Vega Castro in her home district of Tlalpan, Mexico City, in November 2021. The event was preceded by much uncertainty around travel and pandemic restrictions, but thankfully went ahead in warm sunshine. Several UNB friends joined via Zoom. A celebration will follow

in England, eventually, and a visit to Fredericton is in the cards too. ■



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# IN *Memoriam*

## FREDERICTON

- KENNETH BAIRD (BSc'43), Ottawa, Ont.
- RICHARD DOUGLAS 'DOUG' BANNON (Class of '43), Moncton, N.B.
- VERNON COPP (BA'48, BCL'50), Saint John, N.B.
- JOHN CUNNINGHAM (BScF'49), North York, Ont.
- MARGARET FORESTELL, née Duffie (BA'49, BCL'51), Fredericton, N.B.
- ALLAN DONALDSON (BA'50, MA'51), Fredericton, N.B.
- MARY MACKENZIE CORMIER, née Cormier (BA'50), Saint John, N.B.
- JOAN LAWRENCE (BA'52), Victoria, B.C.
- J. RAYMOND ROY (BScEng'52), Ottawa, Ont.
- ROBERT 'BOB' BURRIDGE (BScEng'53), Fredericton, N.B.
- CHARLES DEGRACE (BScEng'54), Burlington, Ont.
- DOROTHY BAILEY, née MacDonald (BE'd'55), Upper Tantallon, N.S.
- MARY OLAND, née Hachey (BE'd'55), Quispamsis, N.B.
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- GERALD PRICE (BSc'58), Gallagher Ridge, N.B.
- WALTER BODZIAN (BScEng'59), North Vancouver, B.C.
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 John, N.B.  
 HERTA SAUERTEIG (Class of '85), Saint John, N.B.  
 MELBOURNE BROWN (BA'87), Saint John, N.B.







# A LIFETIME WITH UNB ESTABLISHES A LEGACY FOR THE FUTURE

**Professor emerita Dr. Mary Lou Stirling (BA'68) has a long and varied history of connection to UNB, a connection she has ensured will extend long into the future.**

Mary Lou was already a qualified teacher when she enrolled as a student in 1965. After graduating with a bachelor of arts in 1968, she went on to teach at the New Brunswick Teachers' College, moving to UNB's faculty of education when the college closed in 1973.

In 1989, while still teaching in the faculty of education, Mary Lou became UNB's dean of residences.

"My entire adult life has been associated with UNB," Mary Lou said. "I've had three distinct roles – student, administrator, professor at the Fredericton campus as well as in Trinidad and Tobago – and in every one of those roles I've made lifelong friends."

Mary Lou has been deeply involved over the years in advancing women's issues. She has, among other

commitments, been chair of the New Brunswick Advisory Council on the Status of Women, acting director of the Muriel McQueen Fergusson Centre for Family Violence Research, and involved at the national level with the Women's Legal Education and Action Fund (LEAF) Foundation. Today, she is co-chair and heavily involved in the Festival of Lights, a fundraising endeavour of Pine Grove Nursing Home.

Mary Lou has chosen to give back to UNB through a planned gift, in the form of a life insurance policy for which UNB is beneficiary. "I think there was a very natural connection there, supporting the institution that supported me," she said. Because of her deep passion for the teaching of literacy, the gift will be directed toward a project that makes an impact in this area.

"My motivation is strong because of my connection to UNB, but also because of how important the teaching of language arts is, particularly to young children," she said. ■

## PLAN YOUR ESTATE, SUPPORT THE UNB OF TOMORROW

It's easy to have an impact: A \$50,000 gift in your will creates an annual \$2,000 scholarship in perpetuity.

For more information about making a planned gift to UNB, please contact:

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# DONOR IMPACT REPORT

MAY 1, 2021 – APRIL 30, 2022

## UNDERGRAD RESEARCHER A SUPERSTAR IN THE LAB

### LAUREN MCGRATH

Bachelor of Science with Honours

**Lauren McGrath's passion for science research was ignited at UNB before she even had begun her first year.**

Lauren was a high school student in 2019 when UNB Fredericton hosted the Canada-Wide Science Fair. She said that presenting her research to a national audience made her realize she could pursue science as a career. "It was amazing to me," she said. "It put me on the path to doing more research."

Now in her fourth year of the biology-chemistry honours program, Lauren's research is breaking new ground, optimizing a technique called "expansion microscopy" to circumvent the limitations of conventional microscopes by making the sample itself larger. Lauren describes it in very simple terms, discussing the zebrafish embryos used in her research:

CONTINUED ON PAGE 59





# A heartfelt thank you from Development and Donor Relations



The University of New Brunswick is as welcoming as it is beautiful, and it is incredibly beautiful. I have reached this conclusion having joined the UNB Development and Donor Relations team just six months ago.

There is a sense of community here that is evident across the student body and within every faculty. This sense of togetherness is nurtured by our professors, researchers, staff, and our president and senior leadership.

UNB's encouraging and supportive campus culture leads to meaningful and exceptional learning experiences that offer more than just a degree. This university is also about making lifelong memories and friends, finding mentors (and sometimes finding yourself), learning about different cultures, and becoming a global citizen.

**The theme of togetherness is reinforced each year by the incredible generosity and support students experience from across the UNB community of alumni and friends. Thank you for your ongoing investments in our students and campuses, and for your trust in our team's capacity to ensure your financial support has a direct and meaningful impact.**

With much appreciation,

Jeff Wright  
Executive Director, Development and Donor Relations

## FIND THE DONOR HONOUR ROLL ONLINE

Support from donors like you is critical to the mission of UNB. We celebrate those who give in the 2021-22 Donor Honour Roll, recognizing each donor at:

[unb.ca/dhr](http://unb.ca/dhr)

We are grateful to each of our alumni and friends who stepped up to empower our students and help us tackle society's challenges for a better tomorrow.

## Your gift makes a difference. Join us in our ongoing effort to define excellence at UNB.

If you have questions on making a donation, please contact us:

### Development and Donor Relations

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(506) 648-5989



CONTINUED FROM PAGE 57

"It's really hard [with a traditional microscope] to get high-resolution images where you can see a lot of detail, but also have a large field of view. Expansion microscopy is the idea where you take the sample and then instead of looking at it closer, you just expand it and make it bigger." By embedding the samples in a gel and placing them in water, they can expand to a point that their detail is easy to discern with a microscope.

"This is such a simple idea I'm amazed people didn't try it decades ago, and I'm even more amazed that it works," said Lauren's research supervisor, Dr. Bryan Crawford. Dr. Crawford shared in the award that helped make Lauren's research possible.

Funded through the generosity of an anonymous donor, the **Science Undergraduate Research Experience (SURE) Award** is co-presented annually

Lauren has been a real superstar since she started in the lab, and the SURE Award was central to her success. [She] has already seen things we've never seen before."

DR. BRYAN CRAWFORD

to a student and their faculty supervisor. It provides \$6,000 in support toward the employment of a promising undergraduate student during the semester leading up to their final-year research project for a BSc Honours by Thesis. This year, the award went to Lauren and Dr. Crawford.

"Lauren has been a real superstar since she started in the lab, and the SURE Award was central to her success," said Dr. Crawford, adding that they are excited by the potential this technique shows in other applications. "Lauren has already seen things we've never seen before; we're very excited to put this approach to work in combination with approaches like xenografting, in which human tumour cells are transplanted into zebrafish embryos,

so we can see how the tumour cells use the tissue remodeling system during metastasis."

Through a partnership with researchers at University College London, Lauren is also using expansion microscopy to get an unprecedented look at a process that occurs in the retina during development of the eye. This research has exciting potential for understanding many cases of blindness in humans.

This innovative research is winning Lauren accolades beyond UNB. In September, she was invited to present her findings at the 9th annual Atlantic Regional Developmental Biology Symposium in Halifax, N.S., where she won the award for best presentation. "Not only is she doing extremely challenging and unique-in-the-world science, she's demonstrated an amazing aptitude for science communication," said Dr. Crawford.

That aptitude for communicating science brought Lauren full circle this past summer, when UNB again hosted the Canada-Wide Science Fair and she was able to participate, this time as a volunteer.

"None of this would have been possible without the SURE award, the support of Dr. Crawford, and my high school teachers who encouraged me to do research in the first place," said Lauren. "I am very grateful." ■

# THE MCKENNA INSTITUTE: DRIVING PROSPERITY AND PROGRESS IN NEW BRUNSWICK

The McKenna Institute is fulfilling a broad, multifaceted agenda for digital transformation in New Brunswick. Since its establishment in 2021 and throughout the 2021-22 academic year, the Institute has collaborated with stakeholders in education, industry and government, working to nurture a larger and diverse workforce for the digital marketplace.

Through the prestigious and growing McKenna Scholars program, \$125,000 in scholarship funding has been allocated to students across UNB's campuses. The McKenna Scholars program is an integral part of the McKenna Institute's mandate for a greatly expanded and even more engaged faculty of computer science. With a focus on women, Indigenous students and students in financial need, the McKenna Scholars program attracts the best and brightest students across Canada and worldwide.

The McKenna Fellow program was launched in March with the appointment of the inaugural McKenna Fellow in Digital Education, Dr. Matt McGuire. The McKenna Fellow program supports collaboration across industry, academia and government, engaging stakeholders, faculty and graduate students to ensure good ideas are examined and executed within New Brunswick.

In May, UNB announced the launch of the Barrett Chair in Entrepreneurship for Digital Transformation, funded through a \$2.5 million commitment from New Brunswick business leaders Edward (Ed) and William (Bill) Barrett. Based within the faculty of computer science, the Barrett Chair will advance the faculty's mission while furthering its shared goals with the McKenna Institute to drive digital progress in New Brunswick. The inaugural Barrett Chair is Dr. Kenneth (Ken) Kent.



William Barrett, Frank McKenna and Edward Barrett at the announcement of the Barretts' \$2.5-million gift to UNB.

Looking forward, we continue to gain momentum as we work toward our goal of helping New Brunswick to compete globally in a digital society and a digital economy. The digital transformation is underway, and The McKenna Institute is at its heart. ■



# DESIGNATION OF GIFTS

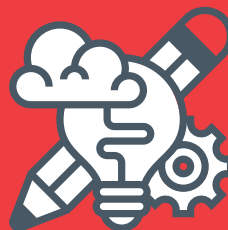
## 2021-22

### STUDENT SUPPORT: \$12,140,504



Donors supported **2,554** students in 2021-22, ensuring access to a UNB education and the opportunities that foster the next generation of engaged and educated citizens.

### RESEARCH AND CHAIRS: \$378,989



Thanks to our donors, UNB is tackling society's great challenges head-on. With 70 per cent of research in New Brunswick conducted at UNB, these gifts allow us to continue our ground-breaking work.

### CAPITAL MAINTENANCE: \$90,850



UNB strives to preserve architectural heritage while upgrading energy efficiency and accessibility. Through donor support UNB maintains our spaces, ensuring every student has access to experiential learning in an inclusive environment.

### TEACHING PROGRAMS: \$1,281,044



At UNB, our 14 faculties manage more than 75 undergraduate and graduate programs for thousands of students on our campuses. With support from our donors, we continue to lead the way in providing quality education.

### LIBRARY ACQUISITIONS: \$108,617



In 2021-22, donors supported the acquisition of **1,448** publications to boost our physical and online resources, keeping UNB a leader in digital technology.

### ATHLETICS: \$453,415



A gift to Athletics allows us to attract and retain talented student-athletes to our teams. In 2021-22, donors supported **257** athletes across our campuses, recognizing their hard work on the field of play to showcase UNB.

### OTHER PURPOSES: \$2,352,020

# TOTAL: \$16,805,439

## THANK YOU!

# HELPING ARTS STUDENTS BENEFIT FROM THE CO-OP EXPERIENCE

## JOHN AND LAURA RUNCIE

BA'12 | BN'13

**UNB graduates John and Laura Runcie drew on their own memories of university life in establishing a co-op bursary program for arts students on the Saint John campus.**

John (BA'12) and Laura (BN'13) say they both received financial support from UNB during their undergraduate years and realize how much it helped them succeed in their studies.

John said he wishes there had been a co-op program he could have applied for while he was a student because he believes work experience provides an essential element of life experience beyond classroom learning.

"I am convinced, and research supports, that exposure to the work experience throughout post-secondary education leads to better employment opportunities post-graduation," he said. "For me, as an arts student, I loved most of the topics I studied but I wanted to find a way to take the tools I gathered, such as critical thinking, research, and making an argument on paper, and find relevant work experience to support and further enhance those skills while I was in school."

**The Runcie Family Co-op Bursary** is their answer to making sure that invaluable work experience can be achieved by arts students. It is awarded annually on the basis of financial need to a Saint John campus student enrolled in the co-op program within the faculty of arts. The bursary is held during the recipient's co-op placement.

"Hopefully, this is an incentive for students who want a co-op-like experience, and the extra financial support is enough to enable this to occur," Laura said.

John and Laura still live and work in Saint John. Laura is a registered nurse who



The Runcie family.

// Our time at UNB created a strong educational foundation that allowed us to pursue unique experiences."

LAURA RUNCIE

specializes in cardiac care in the Heart Centre at the Saint John Regional Hospital and John works at the Port of Saint John, on the business strategy team.

John and Laura went on to complete graduate studies at other universities but they have always maintained strong ties to UNB and a desire to see its graduates succeed.

"We are convinced UNB is a university that punches above its weight and needs to do a better job of telling its story and promoting the quality of education that it gives to students through its amazing faculty," John said. "I hope that by establishing the bursary we can provide an incentive to students to have an impact earlier in their community of study, and hopefully future employment."

Laura said the bursary is also a way to show appreciation and a chance to give back to their alma mater and their community.

"Our time at UNB created a strong educational foundation that allowed us to pursue unique experiences within our professions and the community," she said. "I hope that the bursary shows a sense of appreciation for the experience that I had while I was at UNB and enables others to experience positive post-secondary education as well."

The UNB Saint John bachelor of arts co-op program allows students to gain real-world experience in public, private, and not-for-profit organizations. The co-op students complete paid work terms that complement their course-based learning.

"There was no arts co-op program when I was at UNB," John said. "I had to seek out opportunities. I am so thankful that individuals such as Heather Campbell, Mary Duffley, David Emerson, and Peter McGill mentored and presented me with opportunities to use my skills both within UNB, and in the community.

"Without those opportunities I do not believe I would be where I am today." ■



# INNOVATIVE RESEARCH AT UNB PLUMBS OCEAN DEPTHS AND SEEKS ALIEN LIFE



Allison Enright

## ALLISON ENRIGHT

ASSISTANT PROFESSOR EARTH SCIENCES

## AND KIMBERLEY DAVIES

ASSISTANT PROFESSOR BIOLOGICAL SCIENCES

**From protecting life in the oceans to the limitless search for alien life in outer space, researchers at the University of New Brunswick are breaking new ground through innovative approaches to complex questions, helped in large part by our donors.**

Two researchers and faculty members, Allison Enright, an environmental electrochemist, and Kimberley Davies, an oceanographer, are being supported by donations as they develop amazing new techniques relating to their areas of study.

For Allison, distinguishing between chemical processes and biosignatures may help in discerning alien life forms, while for Kimberley, new technology in the form of an underwater glider is helping keep track of the endangered right whale.

“We would not have been successful without our donors,” said Kimberley, an assistant professor in marine biology on the Saint John campus and recipient of the **Allan and Elizabeth Quartermain Research Fund**.

Allison, an assistant professor in earth sciences on the Fredericton campus, said that without the support she received from the Allan and Elizabeth Quartermain Research Fund, she would not have been able to renovate and set up her research laboratory as quickly as she did in 2020.

“Without that support, there would have been a huge bottleneck for me setting up the lab,” she said. “It probably would have been an entire year of delay. So having those funds available was incredibly important.”

Robert A. Quartermain (BScGeol’77, DSc’09) is the retired executive chairman, director and founder of Pretivm Resources Inc. He established the Allan and Elizabeth Quartermain Research Fund to honour his parents and to support timely and strategic investments in the most promising researchers in their respective fields.

Allison’s area of research recently led her to Harvard University where, as a visiting scholar, she participated in a project known as the Interdisciplinary Consortium for Astrobiology Research (ICAR). ICAR supports NASA’s astrobiology program, which examines the distribution, evolution and origins of life in the universe. Allison said the development of an agnostic biosignature is one that doesn’t depend on terrestrial biology and biosignatures to be used for proof of life.



Allison Enright at work in the field with graduate students.

Here on earth, Allison said her work can help with wastewater management and environmental monitoring. “When you are dealing with contaminants and running remediation programs, if you are using organisms to stimulate a particular process, you can quantify whether they are doing what you want,” she says. “It allows long-term monitoring of sites to ensure they stay safe and that there are no big changes to the chemical processes.”

She said this will be especially important as the climate heats up. “With this technology, we would be able to give a high degree of confidence that these sites are continuing to be safe or, if they are not, we would know early on and be able to take preventative action before water supplies are polluted and people could be hurt.”

Kimberley’s research focus is on ocean ecology. She studies the endangered right whale — there are believed to be fewer than 350 in the North Atlantic — as a model organism for studying marine hotspots. She has pioneered the use of a new oceanographic technology, the underwater acoustic glider, for monitoring the North Atlantic right whales in shipping lanes and in fishing areas where they are at high risk of mortality.

The gliders, first deployed in 2020, are already making a difference. “Every time the glider detects a whale when it is in a certain designated management area, Transport Canada will slow ships to 10 knots or DFO will close the area around it to fishing,” Kimberley said. “It absolutely is fully integrated into management plans for right whales and it is absolutely making a difference.”



We would not have been successful without our donors.”

KIMBERLEY DAVIES

The small, unmanned gliders move back and forth through the water by changing buoyancy. The machine has a hydrophone sensor attached, which records sounds in the ocean. A software system then processes the acoustic data and identifies the different whale calls.

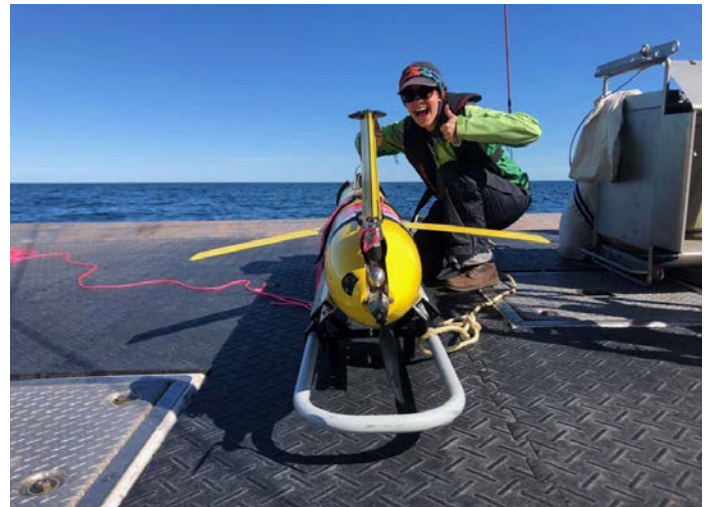
The gliders are a huge improvement over the airplane spotters that were previously used to monitor shipping lanes and fishing grounds. “You can leave the gliders in for months so you have monitoring 24 hours a day, seven days a week,” Kimberley said. “Whereas with planes, you might get one or two flyovers of an area in a week.”

Kimberley said that, like the work Allison is doing, there are broader applications beyond trying to save the right whale.

“We’re making an impact on ocean conservation and sustainable development as well,” she said. “Industries are relying on sustainably using our oceans. These right whale deaths cost a lot of money to industry, so we’re working not only to try and save the species but also to facilitate sustainable development of our ocean industries.” ■



Kimberley Davies



Kimberley Davies and the underwater acoustic glider in the field.

## Stay Connected

The impact of our UNB community is immense – to read the full report, stories from our students, and newsroom updates find us online.



[unb.ca/giving](https://unb.ca/giving)  
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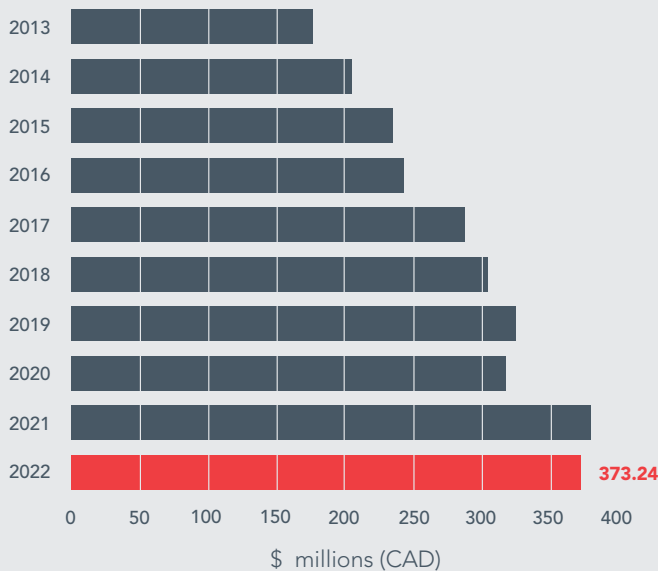
# UNB'S TRUST AND ENDOWMENT FUND



Read the full report online:  
[unb.ca/giving](http://unb.ca/giving)

## PRINCIPAL GROWTH 2013-22

As of April 30, 2022



## CHANGES IN TRUST AND ENDOWMENT

**Balance 2021-22**  
(Market value in millions)

Balance April 30, 2022	\$373.24
Balance April 30, 2021	\$380.60
<b>Net decrease during the year</b>	<b>- \$7.36</b>

### DECREASE DUE TO:

Donations and other additions to capital	\$16.69
Investment income	- \$1.54
Spending	- \$22.51
<b>Total</b>	<b>- \$7.36</b>



The Integrated Health Initiative has developed new bachelor and master's programs at UNB Saint John.

## THE INTEGRATED HEALTH INITIATIVE

**UNB's Integrated Health Initiative (IHI) is establishing a world-class centre of excellence in applied health innovation in New Brunswick. Throughout the 2021-22 year, new partnerships continued to transform health education, research and innovation at UNB.**

In the fall of 2021, UNB Saint John welcomed its second cohort of students into the new, interdisciplinary bachelor of health degree program. In the spring of 2022, all five Arthur and Sandra Irving Primrose Scholars chose to study in this nationally unique program. The Primrose Scholarships are supported by The Arthur L. Irving Family Foundation.

In December 2021, UNB Saint John celebrated Dr. Ziba Vaghri, the first of five prestigious new research chairs who will lead collaborative and interdisciplinary research clusters in Saint John. As Chair in Child Rights and Child Health, Dr. Vaghri is earning UNB global recognition with research that has the potential to improve child health in more than 190 member states of the United Nations.

The Saint John campus is continuing to explore collaborations with The McKenna Institute in digital health research and digital education. In spring 2022, thanks to the ambassadorship of The McKenna Institute, Shoppers Drug Mart gave UNB \$2.5 million to identify, build and test new models of health care for communities in need using pharmacies and new digital tools that make health care more accessible and convenient.

Our university community has made a commitment to mobilize knowledge to transform New Brunswick communities, to prepare students to thrive through transformative education, and to solve the challenges of today and tomorrow through engagement and impact. Your support for IHI enables UNB to achieve these strategic priorities to the benefit of students and society. ■

# A MÉTIS STUDENT LOOKS AT ATTITUDES IN UNIVERSITY SPORTS

## LUKE GUST

BRSS'22, MScKin student

**For Luke Gust, understanding the attitudes of university athletes towards sexual minorities is a research area that could open new doors for the LGBTQ+ community.**

Gust, who is studying for his master of science in kinesiology at UNB, is the first member of his Métis family in Saskatchewan to attend university. He said that being awarded a **TD Insurance Indigenous Bursary** during his undergraduate studies at UNB helped him achieve academic success and propel him forward in his postgraduate studies.

"I'm the first person in my family to go to university," Luke said. "I really had to work a lot to get the money I needed. I was pretty much working full-time hours and trying to balance school work. The bursary helped so much. I was able to put more time towards school and I didn't have to constantly worry about having enough money. The bursary made a huge difference."

Gust graduated last year with a bachelor of recreation and sports studies, honours, in kinesiology and exercise science. His honours project examined attitudes towards homosexuality and sexual minorities in university hockey and basketball athletes. He is continuing this area of study in an accelerated master's program, looking at attitudes toward homosexuality in university sports in general, and also at group cohesion.

During his studies last year, an item on a questionnaire really stood out for Luke: "It would be very upsetting to me if a close team mate turned out to be gay."

"The answers to that question were spread very differently with some saying they strongly agreed, some saying they strongly disagreed, and some saying they didn't really know," he said. "I wanted to understand the context behind those



Luke Gust

answers – is it because they don't want their close teammates to be gay? It's about looking at the different influences at different university-level sports."

Gust is a part of the LGBTQ+ community and grew up playing sports in his small Saskatchewan hometown. He said he wanted to research a subject that he is personally passionate about. For him, attitudes toward sexual minorities in sports is an area that intersects with his own life as a queer Indigenous person.

He said there is more acceptance today of sexual minorities in sports. He believes attitudes are changing, but he is uncertain how deep the change goes when it comes to strongly held ideas about sexuality.

"I think there is a lot of performative activism that goes on, especially when you're talking about a higher-up athlete who has an image to protect. I can recall, for example, a couple of professional athletes who were involved in the You Can Play project which includes sexual

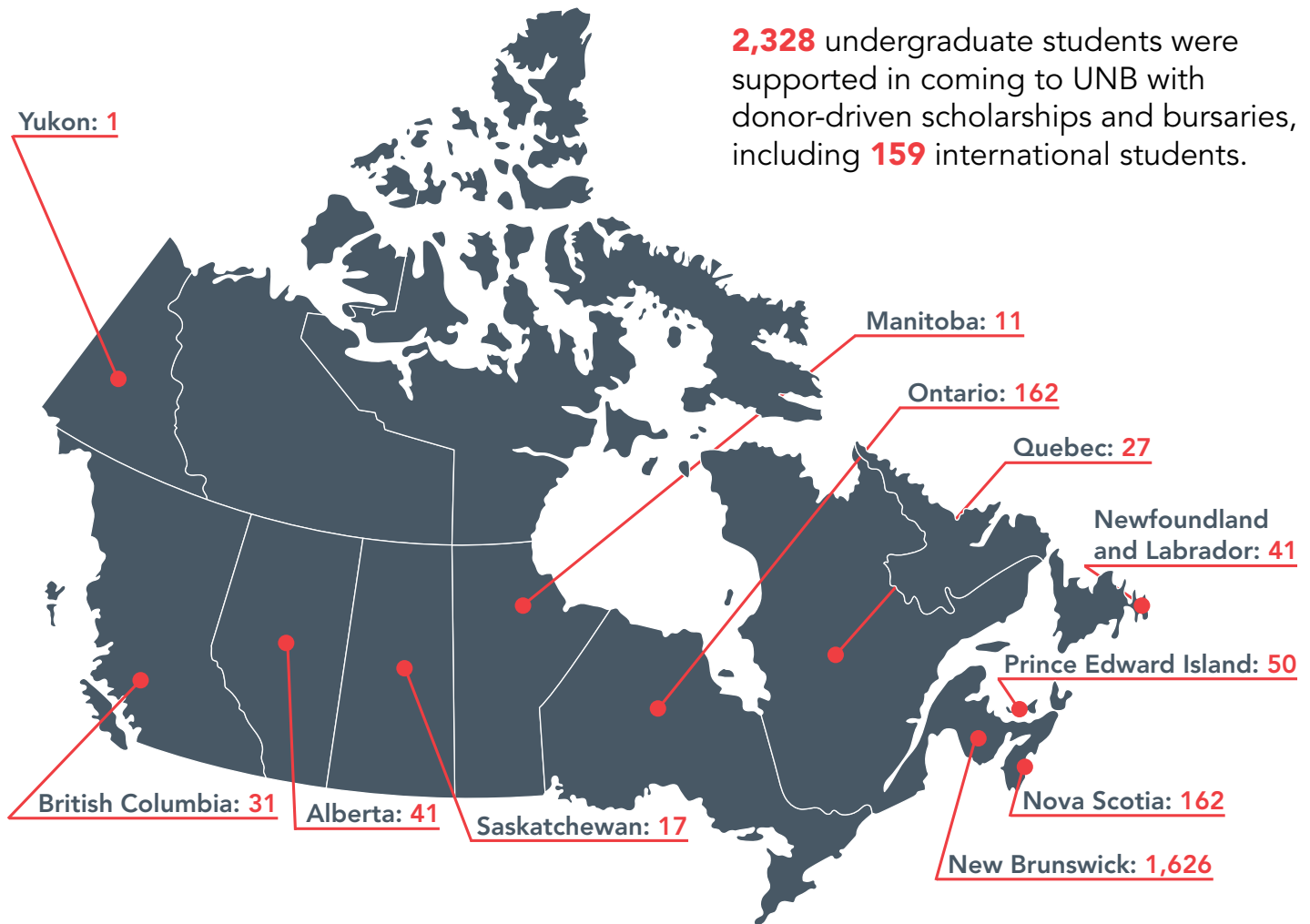
minorities in hockey. But on their social media, the athletes would like homophobic posts. So I think outwards, attitudes may be changing but I don't think people's personal beliefs sometimes are as easily changed. It is a little frustrating."

The TD Insurance Indigenous Bursary is one of several financial awards aimed at helping Indigenous students succeed at UNB. The bursary is given annually to part-time or full-time, undergraduate or graduate Indigenous students, based on financial need. The recipient must demonstrate successful academic performance. ■



# STUDENTS SUPPORTED BY DONORS: 2021-22 AT A GLANCE

**2,328** undergraduate students were supported in coming to UNB with donor-driven scholarships and bursaries, including **159** international students.



"My university experience would have been vastly different had I not received any scholarships. They saved me from ... distractions from my studies that really would have prevented me from putting all of myself into my schoolwork."

— CHRISTINA MCLEAN  
BACHELOR OF HEALTH STUDENT  
UNB SAINT JOHN 50<sup>TH</sup> ANNIVERSARY SCHOLARSHIP RECIPIENT

# COMMUNITY-MINDED ALUMNA RECOGNIZED FOR GIVING BACK

# WAYS TO GIVE

## NEELAB RAHIMI

BA'15, MBA'21

**Neelab Rahimi (BA'15, MBA'21) is excelling in her chosen career in Saint John, N.B., a long way from her early childhood in Afghanistan.**

Neelab says her parents brought her family to Canada to take advantage of educational opportunities not open to women in her home country. She has made the most of those opportunities throughout her time at UNB, while consistently giving back to her community of Saint John.

While pursuing her MBA at UNB Saint John, she was awarded the **Kerry McLellan Award** in recognition of her academic achievement and community involvement. Founded through support from the late Saint John business leader Dr. Kerry S. McLellan (BBA'83), the Kerry McLellan Award is awarded each year to an outstanding MBA candidate on the Saint John campus.

The financial support the award provided was helpful but Neelab had another reason for her appreciation. "It was touching to see that someone had taken time to read my story and understand where I had come from and what I was working towards. When someone believes in you without even knowing you, there is a boost of confidence that what you are doing is correct, that all the hard work is worth it," she said.

On top of her studies, Neelab has a long history of serving her community. She volunteered throughout her undergraduate degree as a peer mentor with the Backyard Book Club, a program within UNB's Promise Partnership initiative aimed at improving educational attainment in Saint John's priority neighbourhoods. In 2016 she helped to establish the Kennebecasis Valley Oasis Youth Centre, Atlantic Canada's first multifaceted mental health youth centre, whose mission is "to provide safe, comfortable, accessible, multifaceted and stigma-free spaces" for youth and their families.

Today, Neelab is putting to use the skills she acquired through her UNB education in her career as a human resources professional.



Neelab Rahimi

She is not finished learning, though: her next goal is to attain the chartered professional in human resources (CPHR) designation necessary to fulfill her career goals. This designation, she said, "will help me be more effective in my role now and in the future." The future is bright for this dedicated, community-minded UNB alumna. ■



It was touching to see that someone had taken time to read my story and understand where I come from and what I was working towards. When someone believes in you without even knowing you, there is a boost of confidence that what you are doing is correct, that all the hard work is worth it."

NEELAB RAHIMI



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# A UNB FAMILY LEAVES AN **ENDURING LEGACY** FOR STUDENTS AND COLLEAGUES

## **JACK AND EILEEN IWANICKI**

1931 – 2014 | 1936 – 2011

**Professor Jack Iwanicki and his wife, Eileen (Haworth), made many students feel welcome in their 31 years of service to UNB. Students and faculty members will continue to benefit from their generosity thanks to the couple's \$2.8-million bequest in support of student financial aid, engagement and faculty research.**

Jack joined UNB's department of philosophy in 1965. Eileen worked for CBC and the federal Department of Consumer Affairs before joining UNB's office of human resources as one of the university's first employment equity co-ordinators. Together, they made UNB their home, and until Jack retired in 1996 they played central roles in the intellectual and social life of the faculty of arts in Fredericton.

Eileen died in 2011 and Jack in 2014 but UNB was never far from their thoughts. Jack created their first student award, **The Eileen M. Iwanicki Scholarship**, in honour of his wife. It is awarded on both campuses to science students who wish to pursue an interest in environmental studies. **The Prof. Jack A. Iwanicki Scholarship** for students majoring in philosophy on both campuses followed, along with the **Jack and Eileen Iwanicki Fund**, which supports research excellence and the creation of new opportunities in UNB Fredericton's faculty of arts and the philosophy department.

The Iwanickis' legacy of student and faculty support is one of the largest gifts ever made to UNB by a former faculty member.

To Anne Pugh, a colleague, longtime friend and former member of the philosophy department who served as Jack's co-executor, this was typical of the way in which the Iwanickis approached life at the university.

"UNB meant so much to Jack and Eileen," she said. "They wanted to ensure that they could keep helping students and colleagues after they were gone. The scholarships and strategic funds are their way of investing in the continuing success of UNB as a community of scholars that is engaged in the life of the larger community."

One of the young scholars whom the Iwanickis impressed was a young Paul J. Mazerolle, now UNB's president and vice-chancellor.

"I had the great fortune of knowing Eileen and studying with Jack," said Dr. Mazerolle. "They had a tremendous capacity to engage students in the world of ideas, in the life of the university and in our community of Fredericton. I am grateful that they will continue to help UNB students for generations to come, thanks to this generous legacy."



Anne Pugh speaks at the event announcing the \$2.8-million estate gift from the Iwanickis.



Eileen and Jack Iwanicki

Dr. Joanne Wright, dean of arts on UNB's Fredericton campus, expressed the faculty's gratitude for the many opportunities the Iwanickis' bequest has created.

"The Iwanickis' legacy is a testament to what we can do, as scholars, to ensure students will continue to benefit from the sort of opportunities that we benefited from as undergraduates, graduate students and new faculty," Dr. Wright said. "I am inspired by the depth of their commitment to our UNB community and I hope others will be, too." ■

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