



UNIVERSITY OF  
NEW BRUNSWICK  
PRESIDENT'S  
ANNUAL REPORT

2014

# THE UNIVERSITY FOR NEW BRUNSWICK...AND THE WORLD

“THE UNIVERSITY OF NEW BRUNSWICK IS DEEPLY WOVEN INTO THE FABRIC OF THE PROVINCE THAT SURROUNDS US. IN MANY WAYS, WE ARE THE UNIVERSITY FOR NEW BRUNSWICK. THE WORK BY OUR FACULTY AND STAFF INFORMS AND BUILDS COMMUNITIES. WE MAXIMIZE THE HUMAN AND ECONOMIC POTENTIAL OF OUR PROVINCE. READ ON, AND YOU WILL DISCOVER THE DIFFERENCE WE MAKE – NOT JUST IN OUR PROVINCE BUT ACROSS CANADA AND AROUND THE WORLD.”



H.E.A. (EDDY) CAMPBELL  
PRESIDENT AND VICE-CHANCELLOR

On the cover: KAYLEY REED, STUDENT AND ENTREPRENEUR

# MAKING A DIFFERENCE AT HOME AND ABROAD

AS THE LARGEST UNIVERSITY IN THE PROVINCE, THE UNIVERSITY OF NEW BRUNSWICK IS A STRONG CONTRIBUTOR TO NEW BRUNSWICK'S GROSS DOMESTIC PRODUCT. WE ARE CRITICAL INFRASTRUCTURE FOR THE KNOWLEDGE ECONOMY AND A LEADING PLAYER IN THE INNOVATION ECOSYSTEM. AS AN INCUBATOR OF AN INCREASING NUMBER OF HIGHLY SUCCESSFUL STARTUP FIRMS, WE SEED FUTURE ECONOMIC GROWTH. AS A MAGNET FOR INTERNATIONAL STUDENTS, UNB IS A NOTABLE EXPORTER OF HIGHER LEARNING.

More than  
**\$300 MILLION**  
in direct spending feeds the  
**NEW BRUNSWICK**  
economy every year.

More than **3,250**  
**PEOPLE** work at UNB,  
making it one of the  
**LARGEST EMPLOYERS**  
in the province.

Our **ANNUAL**  
**EMPLOYEE**  
**PAYROLL**  
amounts to  
**\$188.8**  
**MILLION.**

Within the  
last decade,  
**5,038**  
**INTERNATIONAL**  
**STUDENTS**  
have graduated  
from UNB.



## OUR VALUES, PURPOSE, VISION AND MISSION

### VALUES

Our values are a source of pride and we regard them as central to UNB:

- We seek truth through academic excellence in our teaching, learning and research.
- We respect individuals and their freedom of thought and expression.
- We engage the global community to foster opportunity and enrich lives.
- We embrace the highest ethical standards in our pursuit of excellence.





## /// PURPOSE

Our purpose is to seek and advance knowledge.

## /// VISION

Our vision is to be the university of choice for passionate minds.

## /// OUR MISSION

Our mission is to create the premier university environment for our students, faculty and staff in which to learn, work and live. We will provide an exceptional and transformative education for our students, by encouraging initiative and innovation, unlocking their creative potential. Our graduates will be prepared to make a significant difference — creating opportunities for themselves and for others. We commit to understanding and solving the problems of today and tomorrow, serving our community and engaging with our alumni, retirees and partners around the world.



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P R E S I D E N T ' S M E S S A G E

H.E.A. (EDDY) CAMPBELL, PRESIDENT AND VICE-CHANCELLOR



In holding conversations on our campuses, I often ask the question, “What would we look like if we were the University *for* New Brunswick?” The answers lead to some interesting ideas that can help make New Brunswick an even better place to live and work. It leads us to important debates on the future of our province, to new research and discovery, to outreach that strengthens connections with the society around us.

This year, we are celebrating the 50th anniversary of our Saint John campus. The University of New Brunswick Saint John (UNBSJ) is an institution born of a city whose citizens fought for its very creation. A half a century later, that passion remains. There is great pride in UNBSJ, for who we are and what we do.

Yet, we are more than just a university for a city or a province. Our impact is felt across this nation and beyond. This year, we were honoured to be recognized as the Most Entrepreneurial Post-Secondary Institution in Canada. The award from Startup Canada is deserving recognition for the dedicated faculty and staff who foster a culture of entrepreneurship. We believe entrepreneurship is a way of thinking, and that teaching it opens up a world of possibility for our students.

Our mission is also global – students from around the world come here to study; thousands of our alumni are making a difference in countries they call home.

We do not rest here. We look for new ways of transforming our 229-year-old institution to ensure a strong future. We are, after all, pioneers in discovery.

A handwritten signature in white ink that reads "Eddy".



UNB RANKS **4<sup>TH</sup>** IN CANADA AMONG COMPREHENSIVE UNIVERSITIES BY MACLEAN'S MAGAZINE.

SALUTED AS THE **NATION'S NO.1** ENTREPRENEURIAL UNIVERSITY BY STARTUP CANADA.

RECOGNIZED IN THE **GLOBE AND MAIL** AS ONE OF



LIKE THE PEOPLE WHO LIVE IN NEW BRUNSWICK, UNB TENDS TOWARDS MARITIME MODESTY ABOUT OUR ACCOMPLISHMENTS. BUT WE ARE JUSTIFIABLY PROUD OF THE SUCCESSES THAT COME FROM THE HARD WORK AND DETERMINATION EXHIBITED BY OUR PEOPLE.

RESPONSIBLE FOR ABOUT

**75%** OF ALL PUBLICLY FUNDED RESEARCH IN NEW BRUNSWICK.



THERE IS NO SHELTER FROM DIFFICULT ECONOMIC TIMES. LIKE OTHER UNIVERSITIES, **UNB** NAVIGATES A TOUGH PATH OF **FINANCIAL SUSTAINABILITY**. BUT WE FIND OUR WAY, TRIMMING EXPENSES WHILE SAFEGUARDING QUALITY. WITH THE FORESIGHT OF DISCIPLINED FISCAL PLANNING AND RESTRAINT, OUR FOUNDATION REMAINS STRONG. THE GENEROSITY OF DONORS STRENGTHENS OUR MISSION AND ENSURES FINANCIAL SUPPORT FOR STUDENTS.

<1%

Less than one per cent of UNB's total budget is allotted to executive salaries.

\$25.5  
M I L L I O N

Over the last nine years, \$25.5 million has been trimmed from UNB's overall budget.

9.5%

**UNB** administrative and general expenses accounted for 9.5 per cent of our total operating expense, placing it below the broader Canadian university average.

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Through our leading energy  
management efforts,  
we have enjoyed  
**ANNUAL COST SAVINGS** of

↓  
**\$1.04**  
**MILLION**

---

OUR TOTAL ENDOWMENT  
AND LONG-TERM TRUST  
FUNDS AMOUNT TO  
**\$217.9 MILLION**



GENEROUS  
DONORS  
HAVE GIVEN



**\$10.9**  
**MILLION**



TO UNB OVER THE YEAR,



**\$5**  
**MILLION**



OF THAT  
WILL GO TOWARDS  
STUDENT FINANCIAL  
SUPPORT.







## OUR PRIDE, OUR PASSION AND OUR PURPOSE



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At UNB, we are not only an institution of higher learning – we are a community. While we are shaped by the nobility of our values and mission, it is our people that define us. Our students, inspired to reform the world around them, provide our purpose. Our faculty drive the quest for knowledge and innovation, changing lives and improving our society. Determined and hard-working staff ensure our very future. Our alumni prove us proud, blazing a path to a better tomorrow. We are the University of New Brunswick.

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**RENAISSANCE COLLEGE**

*Seated on couch, from left: ZACHARY DUNSEITH, SHEALYN MACLAUGHLIN, NATHANIEL WALLACE AND DR. MIRA BACHVAROVA (seated on bench) Foreground: ALYSE DUFFNEY AND RYAN DICKSON*



## OUR STUDENTS, DETERMINED TO MAKE A DIFFERENCE

.....

It's no wonder our students are our inspiration. They come to us from all parts of Canada and from countries far away, eager for knowledge and to forge a path to a bright future. But for most, they are not content just to study – they want to excel. They want to make a difference. And they do – at UNB, across our nation and abroad.

.....





## AGILE AND BRILLIANT: UNB TEAM NATION'S SMARTEST

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The UNB Varsity Reds women's volleyball players are not just acing it on the court – they're winning titles in the classroom too. Every single member of the squad received straight As in the 2013-14 academic year. The team GPA was an impressive 3.9 out of 4.3.

Canadian Interuniversity Sport has a term for this: Academic All-Canadian. The title is awarded to each student-athlete who has a GPA of 3.5, or higher, while competing for a varsity team.

It's a truly impressive achievement for student athletes balancing full-time studies with heavy practice and competition schedules. "I couldn't be more proud of this team," head coach Jilliane Goulet says. "They definitely commit fully to everything that they do, and that shows on the court and on their transcripts."

UNB prides itself on having a high number of student athletes who are Academic All-Canadians – indeed, more than four in 10. But this is the first time an entire team has scored the distinction.

# ATHLETES WITH SPIRIT, TALENT AND SMARTS

AT UNB, WE ARE IMMENSELY PROUD OF OUR ATHLETES. OUR VARSITY TEAMS, PLAYING IN THE CANADIAN INTERUNIVERSITY SPORT (CIS) AND CANADIAN COLLEGE ATHLETIC ASSOCIATION (CCAA) LEAGUES, REPRESENT THE PINNACLE OF ATHLETIC – AND OFTEN ACADEMIC – ACCOMPLISHMENT. INDEED, MORE THAN 100 OF OUR VARSITY ATHLETES HAVE BEEN SALUTED FOR ACADEMIC ACHIEVEMENT.

## UNB VARSITY REDS



### ROOKIE OF THE YEAR

Men's basketball guard Javon Masters was named CIS Rookie of the Year, the first player from UNB to win the award.

### TOP EIGHT

Adrian Robertson, the assistant captain of our hockey team, was named among the Top Eight Academic All-Canadians – the most prestigious academic award a university athlete in our nation can achieve.

### RECORD BREAKING

Our women's soccer team had a record-breaking year, losing only one game, and finishing first in Atlantic University Sport (AUS) for the first time in its 19-year history.

### UNDEFEATED

UNB's men's soccer team went undefeated, winning its second-consecutive AUS championship.

## UNB SAINT JOHN SEAWOLVES



WOMEN'S SOCCER DEFENDER CARLY BAXTER IS A SIRC-CCAA ALL-CANADIAN AND HOLDER OF THE GERRY LEBLANC AWARD FOR LEADERSHIP, DEDICATION AND SPORTSMANSHIP.



THIRTEEN VARSITY SEAWOLVES CAPTURED THE CCAA NATIONAL SCHOLARS AWARD FOR OUTSTANDING ACADEMIC ACHIEVEMENT.



AT THE AUS CROSS COUNTRY CHAMPIONSHIPS, KATIE ROBINSON WAS NAMED ALL-STAR, JOSH SHANKS ROOKIE OF THE YEAR AND KATIE WALLACE RECEIVED THE THE COMMUNITY SPORT AWARD.



TWO OF OUR TEAMS WERE FINALISTS AT THE ATLANTIC COLLEGES ATHLETIC ASSOCIATION CHAMPIONSHIPS, WOMEN'S VOLLEYBALL AND MEN'S SOCCER.





## TRANSFORMING STUDENTS INTO LOCAL AND GLOBAL LEADERS

Fifteen years ago, UNB introduced the first undergraduate leadership studies program in Canada as Renaissance College opened its doors to students determined to transform the world locally and globally.

EMILIE CHIASSON is one of these leaders. In 2014, she spent 10 weeks in Malawi as part of the program, volunteering at a community-based lodge for children and adults ostracized because of their disabilities. There she met Husen, a five-year-old boy mentally impaired and blind due to complications at birth. “I’m playing with him, and he’s smiling,” says Ms. Chiasson. “He didn’t learn that expression, because he can’t see it. He feels it genuinely from within.”

Ms. Chiasson says the experience opened her eyes and changed her way of thinking. “I may not have saved the world or even changed a life, but I learned to think more globally,” she says. “And I think that produces more thoughtful and effective citizens at home.”

In addition to domestic and international internships, students at Renaissance College also have opportunities to work with community organizations to make a real and profound impact during the pursuit of their degrees.





## MAKING THEIR MARK: OUR STUDENTS AFFECT CHANGE

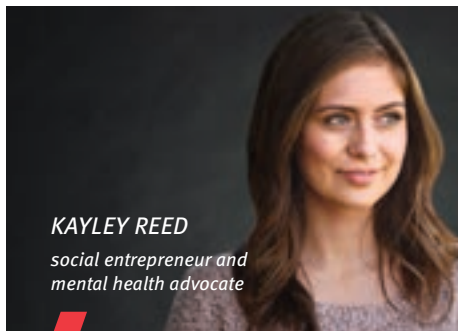
ONE OF THE CORNERSTONES OF UNB'S STRATEGIC PLAN IS TO PROVIDE STUDENTS WITH AN EXCEPTIONAL AND TRANSFORMATIVE EXPERIENCE. BEFORE LEAVING, MANY OF OUR STUDENTS TRANSFORM US.



**LEE THOMAS**  
*student leader and  
social justice advocate*

As the face and force behind the student union-led mental health awareness campaign #MYDEFINITION (mydefinitionunb.com), Lee Thomas (BA '15) went public with her own struggles with an eating disorder and self-harm. Beyond her own daring, she works tirelessly to create meaningful and lasting change over the stigmas that haunt mental health.

"I've always been driven to help people," says Ms. Thomas, who serves as a vice-president with the UNB Student Union in Fredericton.



**KAYLEY REED**  
*social entrepreneur and  
mental health advocate*

Kayley Reed (BPhil '14) is a model, fashion writer, mental health advocate and, with a boost from UNB's Summer Institute program, a business owner.

Ms. Reed is co-founder of Wear Your Label (wearyourlabel.com), a style- and socially-conscious clothing company dedicated to ending the stigma associated with mental illness. In addition to sharing

stories and creating conversations about mental illness, the company gives 10 per cent of profits back to mental health research, organizations and initiatives.

A graduate of UNB's Renaissance College, Ms. Reed is a recipient of a Lieutenant Governor's Silver Medal, awarded to the most outstanding student in each faculty.



**NICK McCULLUM**  
*researcher, founder  
of charitable organization*

While volunteering with Food for the Hungry Canada to build a clinic in Guatemala, Nick McCullum witnessed chronic malnutrition among village children.

The experience made such an impression that he founded The Vitamin Project, a charity that organizes fundraising volunteers to provide Guatemalan children with multi-vitamins and other nutritional supplements.

With a strong belief that everyone has a duty to help others, Mr. McCullum is now headed for his fifth trip to Guatemala in May.

A first-year Bachelor of Science student at UNB Saint John with a double major in biology and psychology, Mr. McCullum also plays rugby with the university, is a student researcher with the Canadian Rivers Institute, high school valedictorian and a 2014 recipient of the TD Scholarship for Community Leadership.



# CLASS 2014







## BUILDING A BETTER UNIVERSITY OF NEW BRUNSWICK

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Sir Howard Douglas, former lieutenant-governor of New Brunswick, was an early champion of our university and a deep believer in community service. More than two centuries later, we continue his legacy by looking for ways to build up our university. We engage pioneers in scholarship. We bolster scholarship support to open up new opportunities for students. We seek partnerships that will enrich our communities and our province. We are building a better UNB.

.....

# STARTUP HUB:

## *Canada's Most-Entrepreneurial University*

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Innovation and entrepreneurship are part of our cultural fabric at UNB and, this year, we proved we were the nation's best.

UNB was named Post-Secondary Institution of the Year at the Startup Canada awards in June. This was a tremendous endorsement of our efforts to cultivate the entrepreneurial mindset that thrives at UNB and to fuel innovation in the region.

It was also a significant achievement for our people — not only in our faculties of business and engineering, where the International Business & Entrepreneurship Centre and Dr. J. Herbert Smith Centre for Technology Management & Entrepreneurship (TME) continue to propel innovation — but also in faculties like nursing and arts where entrepreneurial thinkers continue to push boundaries in the world of social innovation.

Dr. Dharendra Shukla, J. Herbert Smith ACOA Chair, spearheaded the TME Foundry Program this summer, providing technical and social innovators with funding, tools and mentorship to bring viable businesses to life. The Promise Partnership, led by Tracey Chiasson in the office of Saint John Vice-President Robert MacKinnon, connects UNB students as mentors to school-aged children in Saint John's Crescent Valley.







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These entrepreneurial champions represent a trend across UNB, with faculty and staff creating opportunities for experiential learning and leadership, and building connections with key partners across Atlantic Canada's innovation ecosystem. The Pond-Deshpande Centre and Wallace McCain Institute have been instrumental in connecting our students with the vibrant business and innovation community that surrounds us, and equipping them with the tools to succeed.

Thanks to investment and support from government, non-profit and community partners, UNB has launched 23 startups in the last two years, while the university continues to commercialize research at almost twice the rate of other Canadian universities.

UNB is the most entrepreneurial university in Canada because creativity and entrepreneurialism is in our DNA. We recruit and cultivate talent, drive excellence and equip our students with the tools and experience to transform the world around them.

This was a significant moment for our institution. But it's only the beginning.



23

STARTUPS  
IN TWO YEARS







Dr. Valentine comes to UNB from the Massachusetts General Hospital Institute for Health Professions, where she served as associate dean for clinical affairs and community engagement.

She has a PhD in health administration from Cornell University, and has held various clinical positions in addition to her research and teaching. As dean of nursing, and with her leadership in complex health care organizations, she will greatly benefit our nursing faculty, as well as the health organizations serving our communities.

**KATHLEEN VALENTINE** .....

*Advocating for patients  
and their families*

**VAN LANTZ** :

*Finding economic value  
in the environment*

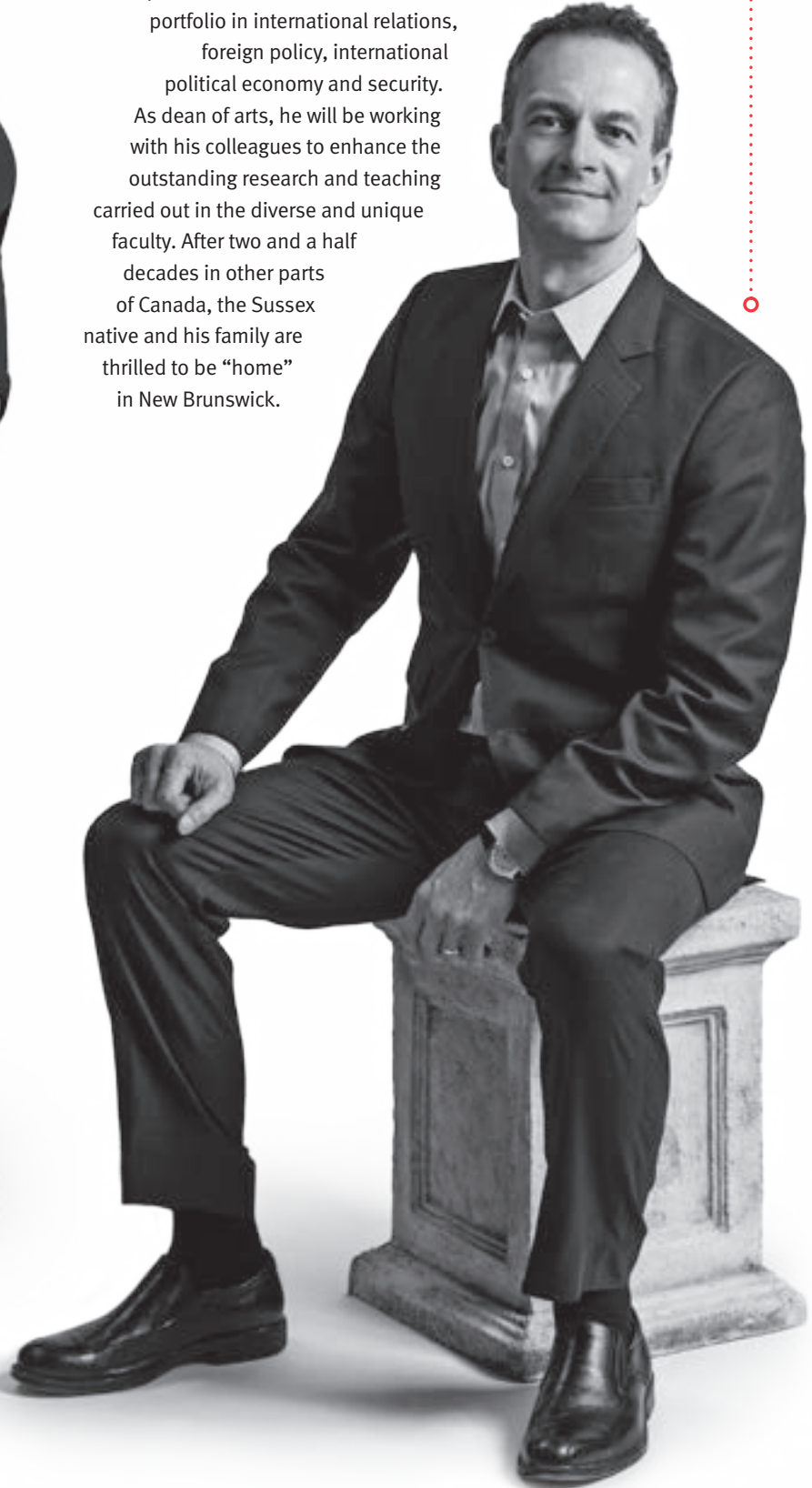
Dr. Lantz came to UNB in 2000 after receiving a PhD at Simon Fraser University in British Columbia in the area of environmental and natural resource economics. His research has been focused on cost benefit and economic impact analysis of environmental and forest management policies. As dean of forestry and environmental management, he is working to enhance the faculty through innovative marketing and student recruiting initiatives, increasing the number of student transfer agreements, re-invigorating the faculty's co-op programs and enriching research through collaboration.



## GEORGE MACLEAN

*Promoting a 21<sup>st</sup> century world view*

Dr. MacLean is an award-winning professor with an extensive research portfolio in international relations, foreign policy, international political economy and security. As dean of arts, he will be working with his colleagues to enhance the outstanding research and teaching carried out in the diverse and unique faculty. After two and a half decades in other parts of Canada, the Sussex native and his family are thrilled to be “home” in New Brunswick.



# SETTING STUDENTS UP TO SUCCEED

ANYONE WHO IS PASSIONATE ABOUT PURSUING HIGHER EDUCATION SHOULD BE GIVEN THE CHANCE TO DO SO. UNB'S COUNTLESS SUPPORTERS AND PROGRAMS ARE MAKING THAT HAPPEN.

## MI'KMAQ-MALISEET INSTITUTE SET TO SOAR

Since taking on the role of director of the Mi'kmaq-Maliseet Institute, David Perley has a vision of not only creating opportunities that benefit Aboriginal students on campus, but also to provide culture-based education to everyone at UNB. The institute administers programs for Aboriginal students at UNB and helps them enter the undergraduate faculty of their choice. Mr. Perley, who is pursuing a PhD in education at UNB, says this position appealed to him because of his lifelong interest in Maliseet/Mi'kmaq education.

### *Creating more opportunities for Aboriginal youth*

Generous supporters of UNB, Judy and John Bragg (DLitt '14) share David Perley's passion for creating meaningful change for Aboriginal students. They've invested \$500,000 in UNB's Faculty of Education to support aboriginal higher education. Their gift will support scholarships and bursaries and a UNB summer camp for high school Aboriginal students. Their contribution will give countless students the chance to become university graduates and go on to pursue the opportunities, which that affords.



JOHN AND JUDY BRAGG

## RICHARD J. CURRIE: IGNITING STUDENTS' ENTREPRENEURIAL SPIRIT

One of Canada's most accomplished business leaders, Dr. Richard J. Currie (LLD '87) established The Currie Scholarships more than a decade ago to recognize Maritime high school students who display outstanding leadership skills. The 2014-15 recipients of the four-year, \$50,000 scholarship were: Jack Campbell of Saint John, N.B.; Kaley Fitzpatrick of Halifax, N.S.; Emma MacDonald of Vernon River, P.E.I.; and Justin Thibault of Tatamagouche, N.S. A legacy of UNB's chancellor emeritus and the university's most generous living benefactor, Dr. Currie has been an inspirational leader for the university, the province and beyond.



RICHARD J. CURRIE



## OUR STUDENTS MAKE US A BETTER UNIVERSITY

ABOUT HALF OF OUR FIRST-YEAR UNDERGRADUATE STUDENTS ARE FIRST IN THEIR FAMILY TO ATTEND A UNIVERSITY, A REMARKABLE STATISTIC. IT SPEAKS TO THE ACCOMPLISHMENT OF THESE STUDENTS. AT TIMES, IT CAN ALSO CALL FOR A HIGHER LEVEL OF STUDENT SUPPORT. FORTUNATELY, AVERAGE SCHOLARSHIP SUPPORT AT OUR UNIVERSITY IS ON THE RISE. AND BECAUSE OF OUR SIZE, WE ARE IN THE ENVIABLE POSITION OF BEING ABLE TO GIVE OUR STUDENTS INDIVIDUAL AND PERSONALIZED ATTENTION. AT THE END OF THE DAY, THOUGH, OUR HIGH-CALIBRE STUDENTS MAKE UNB A BETTER PLACE TO BE.



UNB ENJOYS AN AVERAGE OF ONE FACULTY MEMBER FOR EVERY 17 STUDENTS – THE SECOND-LOWEST RATIO IN THE COUNTRY, ACCORDING TO MACLEAN'S.

# 80%

SEVEN IN TEN FIRST-YEAR UNDERGRADUATE STUDENTS ENTER UNB WITH A HIGH SCHOOL AVERAGE OF 80 PER CENT OR HIGHER.

# \$755

SUPPORT TO STUDENTS IN THE FORM OF SCHOLARSHIPS HAS INCREASED BY 24 PER CENT OVER THE LAST FIVE YEARS, TO AN AVERAGE OF \$755 PER FULL-TIME STUDENT.

# \$23,389

ENDOWMENT AND LONG-TERM TRUST PER STUDENT IS \$23,389 PER FULL-TIME STUDENT.

# PARTNERING WITH COMMUNITY SCHOOL BOLSTERS YOUTH



**THE PROMISE PARTNERSHIP TEAM**

*Seated, from left: JOLEEN SEARLE, STACEY ARTHURS*

*Standing, from left: STEVEN ROBAR, BJORN LISIK, ANGELA THORNTON, TRACEY CHIASSON AND ERIN BIGNEY*

UNB's Promise Partnership is bolstering our community's future by helping public school students in two of Saint John New Brunswick's priority neighbourhoods.

The Promise Partnership is an initiative that supports academic achievement in the classroom through its student mentoring and high school tutoring programs.

From modest beginnings in 2009, with just a few campus volunteers, the Promise Partnership has flourished into a full-fledged community outreach initiative with approximately 145 student volunteers each term, and several dedicated staff, led by Tracey Chiasson in the office of UNB Saint John Vice-President Robert MacKinnon.

From September to April, UNB Saint John students mentor youth at Hazen White-St. Francis School one day per week, supporting the school in its efforts to increase literacy and numeracy rates.

Two evenings a week, from September to June, the program brings high school students to campus, where they break out into small groups to work with Promise Partnership staff and UNB Saint John student tutors.

The Promise Partnership has had a ripple effect that extends beyond the classroom and the results have been extraordinary.

Before the Promise Partnership was created, only 37 per cent of students entering high school from Hazen White-St. Francis School

graduated on time. In 2014, 80 per cent of participating students graduated on time, with 20 per cent set to graduate only one semester behind.

TD Bank Group has recognized the importance of the program and has shown its support by recently dedicating \$250,000 to support activities of the Promise Partnership.

Jennifer Brown, Vice-President of Student Affairs for UNB Saint John's Students' Representative Council, is from the Crescent Valley neighbourhood and has been mentoring and tutoring students through the program for five years. She is a recent recipient of a Caring Canadian Award from Governor General David Johnston, who recognized her work with the Promise Partnership.

"Through the Promise Partnership, I have been given the opportunity to give back to the community where I grew up," Ms. Brown says. "I want to make a difference and I want to be a role model to these students, to let them know that despite the challenges they may have, they can determine their own path."



**JENNIFER BROWN**

*vice-president of student  
affairs for Saint John's students'  
representative council*



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## A TIRELESS ADVOCATE FOR SOCIETAL CHANGE

Rina Arseneault, the associate director of the Muriel McQueen Fergusson Centre for Family Violence Research at the University of New Brunswick, exemplifies the best of the unwavering dedication demonstrated by our staff.

For decades, she has been a passionate voice for ending family violence – advancing a community-based approach toward reducing and preventing it. For her research, education and her tireless advocacy, she has been named to the Order of Canada.

Motivated by a sincere desire to end the pain and suffering endured by victims of family violence and by a deep belief that change is possible, Ms. Arseneault goes about her work with determination and an unwavering professionalism.

A social worker, she has also worked at the HIV/AIDS Clinic at the Ottawa Hospital.

With her work, she does not seek the limelight. Yet, in addition to being invested with one of the nation's top civilian honours at Rideau Hall, Canadian Living declares her one of Canada's Top Women Changemakers. Such recognition is richly deserved.

We are proud of her and of the impact she is making on the world around her.

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**RINA ARSENEAULT**

*Associate Director,  
Muriel McQueen Fergusson Centre*



CELEBRATING  
**50** YEARS  
SAINT JOHN CAMPUS



## 1964

UNB SAINT JOHN IS ESTABLISHED IN UPTOWN SAINT JOHN; TWO YEARS OF ARTS AND SCIENCE OFFERED, AND 97 STUDENTS ENROLLED.



## 1965

CITY OF SAINT JOHN DEEDS 87 ACRES OF LAND FOR THE DEVELOPMENT OF A NEW CAMPUS AT TUCKER PARK.



## 1969

UNB CHANCELLOR SIR MAX AITKEN OPENS TUCKER PARK CAMPUS.



# UNB SAINT JOHN: CELEBRATING 50 YEARS

*A campus built by a community, a community shaped by a campus.*

UNB IS CELEBRATING THE 50TH ANNIVERSARY OF THE SAINT JOHN CAMPUS WITH EVENTS AND ACTIVITIES THAT RECOGNIZE THE ACCOMPLISHMENTS OF THE FOUNDERS AND BUILDERS OF THE CAMPUS; ITS FACULTY, STAFF, STUDENTS AND ALUMNI; AND THE SPECIAL CONNECTION IT HAS WITH THE COMMUNITY. LAUNCHED IN SEPTEMBER 2014, THE GOLDEN ANNIVERSARY WILL BE COMMEMORATED UNTIL APRIL 2015.



1974

FIRST GRADUATING CLASS AT THE TUCKER PARK CAMPUS.



1985-1999

A NUMBER OF MAJOR INFRASTRUCTURE PROJECTS ARE COMPLETED TO ACCOMMODATE INCREASING ENROLMENTS; ACADEMIC, ATHLETIC, RESIDENCES AND STUDENT BUILDINGS OPEN.



2011

THE CAMPUS GAINS A NEW JEWEL WITH THE OPENING OF THE \$25-MILLION HANS W. KLOHN COMMONS, A STATE-OF-THE-ART STUDENT-CENTRED LEARNING AND SOCIAL SPACE.



**DR. ALI MURUGESAN**  
*Postdoctoral Research Fellow*





## ON THE PATH TO NEW DISCOVERY

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Innovation is the catalyst for new growth. It feeds prosperity, enriches lives and communities, and provokes new discovery. At UNB, we have good reason to be boastful about research and innovation. We are the hub for discovery in New Brunswick. Our faculty and students drive new insight and advancement with work that leads the nation and the globe – whether it be devising new theories on the universe, puzzling through better ways to deliver health care or starting up the world’s first dermoskeletal lab. Our impressive record of commercialization has led to new jobs, new wealth and new opportunity.

.....

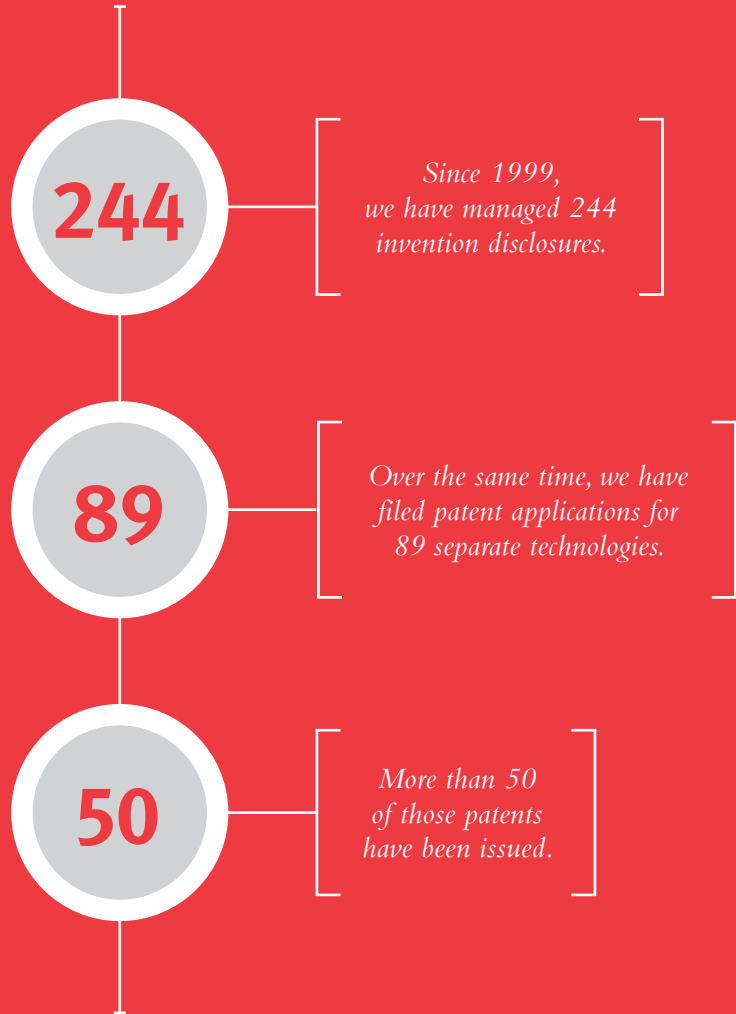


## WORLD-LEADING RESEARCH INSTITUTES THAT ARE CHANGING SOCIETIES

AS THE PREMIER RESEARCH INSTITUTE FOR THE PROVINCE, IT IS NO SURPRISE THAT UNB IS BLAZING THE PATH OF INNOVATION. WE ARE HOME TO LEADING RESEARCH INSTITUTES AND SCIENTISTS WHO ARE PIONEERING DISCOVERY THAT CHANGES LIVES, CHANGES SOCIETY AND FUELS THE KNOWLEDGE ECONOMY. IT'S WHAT WE DO.

UNB ATTRACTED MORE THAN  
\$45 MILLION IN EXTERNAL  
RESEARCH FUNDING IN 2013-2014

**\$45**  
**MILLION**



DR. JON SENSINGER  
Associate Director, Institute of Biomedical Engineering



DR. TIM KOSLOWSKI (LEFT) AND DR. JULIAN BARBOUR



## **DR. TIM KOSLOWSKI**

*Charting a new theory about time*

It's not too often that a young researcher garners worldwide attention for a new theory on time and the universe.

But UNB theoretical physicist Dr. Tim Koslowski has.

In collaboration with colleagues in this country and abroad, he published a paper in *Physical Review Letters* that quickly attracted notice across North America, Britain and Australia.

Mainstream popular media, including *Wired*, *Scientific American* and *Popular Mechanics*, jumped in with explanations of the theory proposing a new direction for the movement of time.

Along with Dr. Julian Barbour at the University of Oxford and Dr. Flavio Mercati of Perimeter Institute for Theoretical Physics, he found for the first time that the forces of gravity have a bearing on how time flows and that gravity helps create markers to the past. No such markers of the future are generated – that's why we form memories of time past but not the future.

Dr. Koslowski, a post-doctoral researcher with UNB's gravity group, notes the fundamental laws of physics are the same whether time moves forward or backward. So why is it that we always watch time move ahead and not back?

That's a question he intends to answer – someday.

## WORLD'S FIRST DERMOSKELETICS RESEARCH CENTRE COMING TO UNB

UNB will host the world's first research centre for dermoskeletics, which is a new science that studies the interaction between the human body and its environment while assisted with a motorized orthosis or "dermoskeleton."

UNB Fredericton was chosen as the location for the Centre for Research in Dermoskeletics because of its extensive knowledge in biomedical engineering and human movement analysis, experience in working with patients that may benefit from the technology, and proximity to the Andrew and Marjorie McCain Human Performance Laboratory, the Stan Cassidy Centre for Rehabilitation and Canadian Forces Base Gagetown. In partnership with the Government of New Brunswick, and industry leaders B-Temia Inc. and Mitacs, the centre will employ more than 13 postdoctoral, doctoral and masters students over the next five years. This university-industry collaboration places our scientists, engineers and students at the forefront of this new science and gives them the opportunity to pioneer a new generation of motorized dermoskeletons.

B-Temia's dermoskeleton is a motorized limb orthosis that recognizes a user's intentions. Its motorized function and ability to move naturally – as a real arm or leg would – allows for much less stress on a person's joints compared to traditional passive orthotics. Using B-Temia's state-of-the-art technology, UNB's faculty and graduate students in the centre will work with health-care professionals to prevent occupational injuries and to improve mobility and quality of life for those living with physical and neurological conditions.



### CHRIS MCGIBBON

*Scientific Director,  
Centre for Research in Dermoskeletics*





## KEVIN ENGLEHART

*Improving the lives of amputees across the world*

Dr. Kevin Englehart, director of UNB's Institute of Biomedical Engineering, has spent nearly 20 years advancing technology that has improved the lives of amputees across the world. Dr. Englehart was inducted into the Canadian Academy of Engineering for his leadership in developing human-machine interfaces that allow amputees much better control of their prostheses. Research accomplishments over his career have contributed greatly to UNB's leadership in innovation and entrepreneurship. Dr. Englehart says seeing the impact of his research on the lives of thousands of people around the world is rewarding in itself, but the recognition by his peers is a real honour.

A portrait of Dr. Shelley Doucet, a woman with long dark hair, smiling warmly. She is wearing a dark blue button-down shirt and has her hands clasped under her chin. The background is dark with a vertical dotted line on the left side.

## SHELLEY DOUCET

*Changing the future  
of health care*

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Improving the lives of Canadians through better health care delivery is the central focus of Dr. Shelley Doucet's work.

As the recently named Jarislowsky Chair in Interprofessional Patient-Centred Care at UNB, and as the recipient of a \$750,000 donation from the New Brunswick Children's Foundation, Dr. Doucet is researching a variety of ways to improve patient care.

In partnership with Mount Allison University, Dr. Doucet and her team will develop a virtual health centre – the first of its kind in New Brunswick – to provide more convenient and integrated care for children with complex medical issues and their families.

As Jarislowsky Chair, she leads research that will be used to develop and evaluate new models of health care focused on patients and delivered in the communities where they live.

“Our goal is to initiate changes in the way that health care is delivered to patients – to develop new practice models that shift the focus away from practitioners and back to patients and their families,” says Dr. Doucet.

Dr. Doucet is an Assistant Professor in nursing and health sciences at UNB Saint John as well as a proud member of a family of UNB Saint John alumni. In 2005, she received her Bachelor of Nursing degree and in 2010 her PhD (Interdisciplinary Studies) from UNB.





## YVES BOURGEOIS

*Tackling social issues  
affecting our communities*

UNB's Urban and Community Studies Institute provides a small city lens to big social problems.

Its examination, for instance, of the links between social issues, sustainable communities and the availability of public transportation caught the attention of the media and various levels of government.

Among the myriad of issues it is turning its attention to is Canada's digital economy and how digital skills are transforming our work and our lives.

As the director of the institute, Yves Bourgeois oversees the strategic direction of the institute, manages staff and handles the oversight of its research, curricular and outreach activities. He is currently managing a number of research projects on innovation, the knowledge economy, polycentric urbanism and transportation.

An active scholar, he specializes in innovation, creativity and regional development. Dr. Bourgeois also teaches regional and urban economics at UNB Saint John, and is active on several boards and committees in the community.



## ERIK SCHEME

*New Brunswick Innovation Research Chair  
in Medical Devices and Technologies*

Medical devices have seen rapid growth over the past five years, in part due to advances in wearable sensor technologies. At UNB, significant advances have been made in portable diagnostic devices, the control of human machine interfaces and human augmentation technologies. Dr. Scheme's work is reaffirming New Brunswick as a world leader in the discovery, innovation and commercialization of medical technologies.



## PAUL PETERS

*Canada Research Chair in Spatial and Social  
Inequalities of Health and Health Service Delivery*

Dr. Peters's research has shown that where Canadians live significantly affects their health. Dr. Peters is assisting in the development of evidence-based approaches to health care policies, health outcomes and the provision of health services. His research directly addresses the fundamental reasons underlying health and social inequalities. He is working closely with a growing group of health researchers at UNB who are leading the direction for better health care policies in New Brunswick and across Canada.



**MONICA WACHOWICZ**

*Cisco Systems Chair for Big Data*

Dr. Wachowicz is developing breakthrough algorithms for real-time analytics, with data coming from 24 billion smart-connected devices by 2020. Her collaboration with Cisco's Internet of Everything Innovation Centre in Toronto will pave the way for the next generation of applications needed to support local and national economic development in Canada. Her research goes a step further in envisaging living laboratories, which will shape intelligently connected communities of the future.



**NATALIA STAKHANOVA**

*New Brunswick Innovation Research Chair in Cyber Security*

Despite enormous achievements in computing, recent cybersecurity breaches have demonstrated that no organization is immune to intrusion or attack. Dr. Stakhanova is leading the research and development of novel detection and response technologies for current, trending and anticipated cybersecurity threats. When commercialized, Dr. Stakhanova's work is expected to significantly reduce the cybersecurity threat response costs to governments and industry.







**KAREN KIDD**

*Canada Research Chair in Chemical  
Contamination of Food Webs and Science Director  
UNB's Canadian Rivers Institute*



## RESEARCH WITH IMPACT ON THE WORLD AROUND US



Karen Kidd, Canada Research Chair in Chemical Contamination of Food Webs and Science Director at UNB's Canadian Rivers Institute, has caught the world's attention with study findings that the birth control pill threatens fish populations.

The Rivers Institute's mandate is to develop aquatic science needed to understand, protect and sustain water resources for the planet. This study has done exactly that by showing that the synthetic estrogen used in the birth control pill not only wiped out fathead minnows, but also seriously disrupted the whole ecosystem.

Dr. Kidd's research built upon discoveries made in the United Kingdom in the 1990s when researchers discovered that male fish began to develop eggs when estrogen was introduced in their habitat. The source was municipal effluents, as estrogen is not completely broken down during wastewater treatment.

From 2001 to 2003, small amounts of estrogen were introduced into a lake at the Experimental Lakes Area in Northern Ontario and the results were surprising. Almost immediately the estrogen affected the fathead minnow's ability to successfully reproduce and that led to larger effects on the lake's food web.

The first surprise was the near extinction of the fathead minnow only one year into the experiment.

"It was really unexpected that they would react so quickly and so dramatically," Dr. Kidd says. "The crash in the population was very evident and rapid, and related directly to the estrogen additions."

That created a domino effect, causing the population of lake trout, the fathead minnow's main predator, to decline. This also caused the number of insects, the fathead minnow's main source of food, to increase.

The good news, Dr. Kidd discovered, is that after the estrogen additions stopped, the fathead minnow population recovered back to what it was before the research began.

A number of rivers in Canada contain male fish that are feminized because of discharges of municipal wastewater effluents. But, as Dr. Kidd notes, "It's a problem that we can certainly solve with better wastewater treatment."



ON ROTATING FRIDAYS THROUGHOUT THE WINTER TERM, TORONTO-BASED LAWYERS AND UNB ALUMNI KEVIN FRITZ (BA '93) AND VAUGHN MACLELLAN (LLB '95) TRAVEL TO UNB TO TEACH A COURSE ON CORPORATE LAW. *Seated, from left: RYAN BAXTER, VAUGHN MACLELLAN, KEVIN FRITZ AND DAVID ABICHAHINE Standing, from left: ELAINA CAMBELL, RYAN ADAMS, BUTCH MALLORY AND KARA HAGUE*





## OUR ALUMNI: PAYING IT FORWARD

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At the University of New Brunswick, we are blessed to have a community of alumni that is generous, involved and resolute. Our graduates exemplify the richness of a UNB education and the opportunities it provides. We are proud of their leadership. We are grateful for the connections they keep, for the mentorship they provide today's students and for the lively engagement they have with UNB. We are grateful for the investments they make in their alma mater's future. They are truly paying it forward to future generations.

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**GIVING BACK TO HELP  
TODAY'S STUDENTS SUCCEED**

Pauline Waggott (BA '08, BBA '11) is firmly focused on giving back to her alma mater – using a prized TD Meloche Monnex fellowship to equip today's generation with tools for lasting success.

She is expanding on the success of The Bridge Network, which helps UNB Saint John students make connections with alumni and the wider community. That, in turn, helps them to discover how the bridges they build today can become the foundation for a strong career and a lasting sense of community.

One of her key contributions is the Bridgepass, which gives students access to tools and networking opportunities for a successful shift from student to professional.

She is also the brainchild behind *What I Wish I Had Known*, an advice forum for alumni and students.

## **DRAWING ON SUCCESS TO BREED FUTURE OPPORTUNITY**

NG POCK TOO (BScENG '68, LLD '93), CHAIRMAN AND CEO OF NEW BOARD TECHNOLOGY PTE LTD. IN SINGAPORE, IS KEEN TO RETURN TO UNB TO SHARE HIS KNOWLEDGE AND EXPERIENCE.

“I ENJOY VERY MUCH SHARING MY KNOWLEDGE AND EXPERIENCE WITH THE BUSINESS STUDENTS,” DR. NG SAYS OF HIS STINTS AS EXECUTIVE-IN-RESIDENCE HERE. A FORMER POLITICIAN AND POLITICAL SECRETARY TO THE PRIME MINISTER OF SINGAPORE, HE IS WIDELY CREDITED FOR HIS WORK DEVELOPING THE ECONOMY OF HIS NATIVE COUNTRY. “TO THE EXTENT I CAN HELP BETTER PREPARE THEM FOR REAL LIFE AFTER UNB, I WILL BE MORE THAN HAPPY TO PLAY MY PART.”

### **‘A UNIVERSITY WHERE ANYTHING IS POSSIBLE’**

Since 2008, Kumaran Thillainadarajah (D-TME'10) has become founding CEO of Smart Skin Technologies, won a New Brunswick Young Entrepreneurs Award and raised \$6 million in capital to support his venture.

And he has UNB to thank for his success.

Mr. Thillainadarajah came up with the idea for Smart Skin Technologies as part of UNB's Activator program, where he worked on an actual startup venture.

“Without the activator program at UNB,” he says, “I wouldn't be where I am today.”

Smart Skin is the commercialization and research of soft flexible sensors technology used by major bottling and packaging companies in this continent and beyond to detect problems in product lines. It's been so successful, it is expanding into Europe and has set up an office in Munich.

Mr. Thillainadarajah isn't the only one from UNB involved with this successful Fredericton-based startup. All 20 of his staff – including 13 full-time engineers – are UNB graduates.

“Hiring employees is one of the most important decisions a company makes,” he says. “It's really no coincidence that I chose to work with people who went to a university that helped get my company started — a university where anything is possible.”



**KUMARAN THILLAINADARAJAH**  
*winner of the New Brunswick  
Young Entrepreneurs Award*

## Senior Leadership and Board of Governors

### SENIOR ADMINISTRATION AND MEMBERS OF THE BOARD OF GOVERNORS

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*H.E.A. (Eddy) Campbell*

Vice-President Fredericton (Academic)

*Anthony S. Secco*

Vice-President Saint John

*Robert MacKinmon*

Vice-President (Research)

*David Burns*

Vice-President (Finance and Corporate Services)

*Daniel V. Murray (Retired)*

*Karen Cunningham (Acting)*

Vice-President (Advancement)

*Robert Skillen*

University Secretary

*Sarah J. DeVarenne*

### BOARD OF GOVERNORS

Ex-Officio Members

*Allison D. McCain (Chancellor), Chairman, McCain Foods Limited*

*H.E.A. (Eddy) Campbell, President and Vice-Chancellor*

*Anthony S. Secco, Vice-President Fredericton (Academic)*

*Robert MacKinmon, Vice-President Saint John*

*David Burns, Vice-President (Research)*

*Karen Cunningham, Acting Vice-President (Finance and Corporate Services)*

*Robert Skillen, Vice-President (Advancement)\**

*Margaret Grant-McGivney, Executive Director, UNB Associated Alumni*

*Sarah J. DeVarenne, Secretary to the Board of Governors*

*Brad Woodside, Mayor of the City of Fredericton*

*Mel K. Norton, Mayor of the City of Saint John*

### APPOINTED BY LIEUTENANT-GOVERNOR IN COUNCIL

*Brian Baxter (Vice-Chair), Chairman and CEO, Botsford Investment Inc.*

*Scott Brittain, Solicitor of the City of Saint John*

*Barry Cooper, Chairman, BMO Global Asset Management*

*Hans O. Klohn, President, OSCO Construction Group*

*Duc Luong, President, Butterfly Energy Systems Inc.*

*Paul Morrison, retired, and former President and COO, ADI Limited*

*J. Christopher Nagle, President, J. Christopher Nagle, PC, Inc.*

*Shelley Pelkey, Financial Executive*

*David Woolnough, past Director of Applied Research and Principal, Nova Scotia Community College*

### APPOINTED BY ASSOCIATED ALUMNI (AE)

*Larry Hachey, President, Bluechip Leasing Atlantic*

*Heather Neilson, Chair, Fredericton YMCA Endowment Board*

*Martine Stewart, Director, Violence Prevention and Community*

*Partnerships Unit at the Women's Equity Branch, Executive*

*Council Office, Province of New Brunswick*

*Karen Taylor, President, K.O. Taylor & Associates*

### APPOINTED BY BOARD OF GOVERNORS

*Roxanne Fairweather, Co-CEO and Co-owner, Innovatia Inc.*

*Thomas Gribbons, Vice-President and Brand Manager of the Saint John Office of RBC Dominion Securities*

*Kathryn McCain (Chair), Chair, The McCain Foundation*

*Wayne Squibb, President and CEO, Realstar Group*

### ELECTED BY FACULTY MEMBERS, FREDERICTON

*Bruce Balcom, Professor, Department of Physics*

*Norman Betts, Associate Professor, Faculty of Business Administration*

*Nicole O'Byrne, Professor, Faculty of Law*

*Donald Wright, Associate Professor, Department of Political Science*

### ELECTED BY FACULTY MEMBERS, SAINT JOHN

*Thomas Goud, Chair, Department of History and Classics*

*John Johnson, Professor, Department of Biology*

### APPOINTED BY THE NEW BRUNSWICK TEACHERS' ASSOCIATION

*Peter Fullerton, President, New Brunswick Teachers' Association*

### ELECTED BY STUDENTS, FREDERICTON

*Kurt Goddard, Student, Faculty of Law*

*Emilie Chiasson, Student, Renaissance College*

### ELECTED BY STUDENTS, SAINT JOHN

*Ashley Macosky, Student, Past President of the Students' Representative Council*

### GOVERNORS EMERITI

*David Ganong, Executive Vice-Chair, Ganong Bros. Ltd.*

*David O'Brien, Vice-President and Treasurer, McCain Foods Limited*

*David Stevenson, Founding Partner, AC Stevenson & Partners*

### CHANCELLOR EMERITUS

*Richard J. Currie, retired, Past Chairman, BCE Inc.*

### OUTGOING MEMBERS (AS OF JUNE 30, 2014)

*Robert Basque, Founding Partner, Forbes Roth Basque*

*Jonathan Cogger, former Vice-President External, Students' Representative Council (Saint John)*

*Kevin Ferguson, Founder and CEO, sustainABILITY*

*Anne La Forest, former Dean of Law*

*Carol Loughrey, semi-retired President, Ashfields Ltd.*

*Judy Roy, Senior Teaching Associate, Faculty of Business Administration*

*Gary Waite, Professor and Chair, Department of History (Fredericton)*

*Benjamin Whitney, Past President, Student Union (Fredericton)*

\* pending revision of the UNB Act









THE RICHARD J. CURRIE CENTER



**OFFICE OF THE PRESIDENT**

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