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EDITORIAL

UNLOCKING OUR POTENTIAL

"This project isn't about space, it's about people."

That's how Dalhousie President Richard Florizone describes the plans for the \$64 million revitalization of the university's Sexton campus (p. 12). It's tempting to focus on the capital investments, just as it is easy to focus on the facilities that are part of the \$220 million investment in Dal's new Ocean Frontier Institute (p. 20). And while those capital investments are essential, their potential will come to life through the work of the researchers, faculty, staff and students who use them to build knowledge and innovate within their fields.

That potential grows through collaboration, as students and faculty create partnerships that stretch across faculties and beyond. That kind of collaboration is echoed in Dal's participation in the Massachusetts Institute of Technology's Regional Entrepreneurship Acceleration Program (p. 18), which brings together a team of leaders from across Nova Scotia with the goal of improving the province's capacity for innovation, entrepreneurship and social progress.

These three game-changing initiatives are easy to describe in dollar terms. What is harder to capture are the collaborations and explorations sparked as Dalhousie creates the conditions to attract, foster and encourage faculty, staff, students and partners to pursue innovative solutions to the pressing problems of today and tomorrow. Yes, the space is essential. But it's the people of Dalhousie—with their ideas, passion and purpose—who unlock its potential.

Vin Puttana

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DAL NEWS



"Our university is strengthened by our diversity."

Dalhousie President Richard Florizone at the permanent installation of the Mi'kmaq Grand Council Flag on the Agricultural Campus in June, acknowledging that the university sits on unceded Mi'kmaq territory. Installations in Halifax coincided with Mi'kmaq History Month in October.





Change is in the air, from new deans in three Dal faculties to a new approach to diversity and inclusiveness. Plus an expanded Dal Arts Centre and a groundbreaking initiative with the NFB and more.



DAL NEWS

THE LIST

New deans welcomed in Health Professions, FASS and Management



ALICE AIKEN, Dean of Health Professions: Dr. Aiken (BScPT'94) first came to Halifax as a naval officer in the Canadian Forces and later earned a degree in Physical Therapy at Dalhousie. She now returns to her alma mater as dean, with the goal of establishing Dal as a leading voice in regional and national health care reform. "This is an extraordinarily skilled and highly functioning Faculty that is going to lead health care into the future," she says.



FRANK HARVEY, Dean of the Faculty of Arts and Social Sciences: With more than 25 years of experience in Dalhousie's Faculty of Arts and Social Sciences, Dr. Harvey is well acquainted with the history and evolution of the Faculty, as well as the challenges and opportunities it faces now and into the future. Dr. Harvey says one of his key priorities is creating a broader and deeper understanding of the many ways Arts and Social Sciences students and faculty contribute to society. "I think we can do even more to highlight and celebrate the important work being done across the performing arts, humanities and social sciences," he says.



SYLVAIN CHARLEBOIS, Dean of Management: Dr. Charlebois's path to Dalhousie was a journey of varied and notable achievements in fields ranging from farming to the military, from business to academia. Dr. Charlebois believes that the Faculty's responsibilities extend beyond students, researchers and the university to the broader community. "If I can say that what we've done contributed to the economy in a meaningful way, we've done our job. That can mean creating jobs, supporting businesses or getting jobs and placements for our students," he says. "It's not just about providing capacity, it's about building capacity—that's what the community is expecting of us." —Ryan McNutt # by the numbers Movie time!

It might seem odd to think of a video store as a valuable teaching and learning resource, but that's how students, faculty and film buffs viewed Halifax's go-to cinema resource, Video Difference. When the 34-year-old institution announced it would be shutting its doors, professors and library staff at Dalhousie joined forces with the Halifax Public Libraries to ensure that the store's rare and hard-to-find items remained in public circulation. "Anyone with a library card in Nova Scotia can borrow these videos and return them to any library in Nova Scotia through the popular Borrow Anywhere, Return Anywhere (BARA) program," explains Donna Bourne-Tyson (MLIS'90), university librarian at Dalhousie. "This is another exciting opportunity for Dalhousie Libraries to work with our public library colleagues on a productive and innovative initiative of benefit to both the university community and the public."

80,000 Number of titles in Video Difference's collection

5,500 Approximate number of titles jointly purchased by Dalhousie and Halifax Public Libraries

\$25,000+ The amount raised as of press time to support Dal's purchase

WHY I DO IT

CHANGE AGENT

NAME: Norma Williams (BA'77, CPA'90) POSITION/DEPARTMENT: Executive Director, Diversity and Inclusiveness

HER FOCUS: "What I'd like to see is a campus that at all levels reflects the populations we serve," says Norma Williams, who joined Dalhousie late last year as its first-ever executive director, diversity and inclusiveness. In a position that reports directly to President Richard Florizone, Williams works with partners across the university, including its many diverse faculty, staff and student communities, to foster pluralism, equality of opportunity and a more respectful and inclusive environment for all who work and study at Dal. "Policy is going to support where we end up, how outcomes are framed and provide some direction but if people don't take up and implement the policies by their actions, policies will sit on a shelf and gather dust," she says.

HIGHLIGHTS: Despite being relatively new to Dal, she says she's already seen many positive initiatives take flight, including the launch of a new needs-based bursary program for Black Canadian and Aboriginal students funded entirely through payroll deductions from faculty in the English department. "I see people learning together, initiating programs, at times making mistakes, but also having great success." It's like working together on a puzzle, says Williams, except "when you get all the pieces together it's not flat—it has dimension, it has substance and can be ongoing."

WHY I DO IT: Williams has devoted most of her career to helping institutions implement change in the broad area of diversity and sees her new position at Dal as an extension of that mission. "The mix of diversity theory and practice is to a great extent what has always motivated me: the opportunity to make positive change that's going to impact our diverse communities and push forward to guide us all." —Matt Reeder



Reporting directly to Dalhousie President Richard Florizone (below left), Norma Williams works with partners across the university to foster a more inclusive environment for all who work and study at Dal.





INNOVATOR

LEE MACDONALD PHD STUDENT IN MEDICAL PHYSICS

INNOVATION: Lee MacDonald (MSc'14) has created patented algorithms to increase precision and safety when delivering radiation treatments to cancer patients.

FOUNDATION: The intellectual property, developed by MacDonald in conjunction with supervisor Dr. Christopher Thomas (MSc'95) and Dr. James Robar, director of Medical Physics programs at Dal, has recently been licenced to Germany's BrainLab AG, fast-tracking its use in hospitals around the world.

INSPIRATION: MacDonald, a PhD student in the Medical Physics program (which launched in 2014), became fascinated with radiation therapy while getting an undergraduate degree at Mount Allison University, where he worked on a research project on radiation physics. At the same time, his grandfather was undergoing cancer treatments in Halifax and he was offered a chance to tour the Nova Scotia Cancer Centre. "That was a real motivator to me to go into medical physics; to use the knowledge I had to try to make some contribution."

IN HIS WORDS: "What we've seen is it shows some real benefit in patient treatments and can really minimize the dose to the healthy tissue in a patient. The total reward for us would be to see this help patients."

WHY IT MATTERS The challenge when administering radiation therapy to patients is to target cancerous tissue while minimizing the dose on healthy tissue. MacDonald's innovation works to solve the problem by first figuring out the safest route to a tumour in each patient—"the optimal angles of approach"—and to have the least amount of impact on healthy surrounding tissue while targeting cancerous cells. —Pat Lee



"What we've seen is it shows some real benefit in patient treatments and can really minimize the dose to the healthy tissue in a patient."



DAL NEWS

NOTES

Diversity efforts recognized

The Schulich School of Law's Indigenous Blacks & Mi'kmaq (IB&M) Initiative has received the 2016 Zenith Award. Presented annually by Toronto-based Lexpert magazine, the award celebrates Canadian lawyers' contributions in achieving diversity and inclusion in society and the legal profession. Winners may be drawn from law firms, corporate legal and government departments, academia, the judiciary and alternative careers relating to law.

"The IB&M Initiative at the Schulich School of Law has grown to become a model for access to legal education and the legal profession," says Jean Cumming, editor-in-chief at Lexpert.

program has also recently been recognized, this one aimed at giving international Commerce students at Dal the chance to get a glimpse of Canadian workplace culture by spending 35 hours job-shadowing at a local host company or organization. The Workplace Experience Program, operated by Dal's Management Career Services (MCS) team, has been awarded the Excellence in Innovation for Diversity Award from the Canadian Association for Career Educators and Employers. Anna Cranston, director of MCS, says the program offers the spinoff benefit of helping to better integrate international students into the local Halifax business community, an objective in line with the One Nova

Another Dal diversity

Workplace Experience Program participant Wendi Zhao shown with Anna Cranston, director of Management Career Services at Dal.

Scotia Coalition's action plan. —Jane Doucet and Matt Reeder

Groundbreaking Initiative with NFB

A groundbreaking new educational initiative aimed at increasing ocean literacy among Canadian youth is at the centre of a new partnership between the National Film Board (NFB) and Dalhousie. The Honourable Dominic Leblanc, Minister of Fisheries. Oceans and the Canadian Coast Guard, visited Dal this summer to announce \$250,000 for Ocean School, an immersive educational project linked with the Ocean Frontier Institute (see page 20) and designed to inspire youth ages 11 to 15 to learn more about how the ocean works.

Dal scientists are working with NFB filmmakers to bring ocean education to life through engaging learning experiences using cutting-edge technologies, powerful storytelling techniques and audiovisual teaching platforms.

The funds will be used for an Ocean School pilot project that will launch early next year in some grade seven classrooms in Nova Scotia. In addition to supporting the roll out of



The Honourable Dominic Leblanc, Minister of Fisheries, Oceans and the Canadian Coast Guard, tests the Ocean School virtual reality platform.

the pilot in schools early next year, the province has also committed \$120,000 for the initiative. Dal and NFB will use the experience to refine the materials as needed, with the aim of expanding the program across the country over the next three years, before eventually offering it in other countries. —Matt Reeder

An Expanded Arts Centre for Fountain School's Future

Two years ago, Dal's Departments of Music and Theatre came together to form the Fountain School of Performing Arts, a merger made possible by a transformative \$10 million gift from the Fountain family.

Now the university is in the midst of planning

and fundraising for an expansion to the Dalhousie Arts Centre, a \$27.7-million communitybased capital project to accommodate the new scope of the Fountain School and address some of the operational challenges posed by its aging facilities.

The university will be requesting proposals for design services on the project, which would add a 37,000 sq. ft., threestorey performing arts wing to the Seymour Street side of the Arts Centre. The addition will include a new concert hall and practice rooms, and will allow Dal's Costume Studies programcurrently housed in rented space at the corner of Coburg and Oxford streets-to be fully integrated with the other programs in the Fountain School. - Ryan McNutt

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FALL IS A TIME OF RENEWAL, a season in which Dalhousie celebrates our past and looks to the future with Homecoming, Fall Convocation and the arrival of a new class of students beginning the next chapter of their lives.

This particular fall, there are even greater renewals underway—ones that point to Dalhousie's next chapter.

There is our long-planned revitalization of Sexton Campus—recently expanded to a \$64 million project, thanks to government and donor support that will transform our downtown Halifax campus into the heart of an emerging innovation district (p. 12). Together with other Nova Scotian leaders, we are starting a two-year global MIT entrepreneurship program called "REAP," helping our province develop new strategies for economic growth (p. 18). And perhaps most exciting of all is the Ocean Frontier Institute: a Dal-led, \$220 million collaboration that unites the best in Atlantic Canada with the best in the world, positioning Canada as a true world leader in ocean research (p. 20).

Each of these, in its own way, is a game changer—not just for Dalhousie but for the Atlantic region and, indeed, our country. Their common bond is the power of partnership: governments, donors, alumni, faculty/staff and students coming together to make a lasting impact on our communities and our world.

It is with this support—with *your* support—that Dalhousie is propelled towards its third century with momentum and purpose, set to become an even more relevant, more connected and more vibrant university.

Dr. Richard Florizone PRESIDENT





of innovation in Atlantic Canada. By MATT SEMANSKY



arjorie Lindsay (LLD'16) understands the power of a great idea. In her 91 years, the philanthropist has seen ideas transform the world around her many times over. On a more intimate scale, she has witnessed the effect ideas have on the people closest to her. More than a decade ago, her late husband John (DipEng'49, BEng(NSTC)'51, DEng'91), a Dalhousie Engineering alum and the founder of the successful Lindsay Construction company, returned from a meeting with dean of Engineering Joshua Leon and fellow alumni about the possibility of a new building on the Sexton Campus. He exuded an excitement that was palpable to Marjorie. "John came home that night looking five years younger," she says.

That first discussion planted the seed of what would become the Innovation and Design in Engineering and Architecture (IDEA) project, a \$64 million investment to revitalize the university's downtown Sexton Campus, establish Dalhousie as a vibrant hub of design-oriented technical education and leave an indelible impact on Halifax and the regional economy of Atlantic Canada.

Even after the passing of her husband in 2006, Marjorie has remained a steadfast supporter of the IDEA project, contributing a \$1 million donation and serving as its honorary campaign chair. She's also one of many stakeholders who have guided a project that serves as a testament to the value of collaboration. From students to faculty members, individual donors to corporate sponsors, university administrators to multiple levels of government, hundreds of people have come together to nurture an idea into the IDEA. "It has grown slowly," Marjorie says. "And now it's coming."

TRANSFORMING EDUCATION

What's coming is a massive leap forward for Dalhousie, Halifax and the entire Atlantic region. The IDEA project will have a transformative impact in education, in the region's economy and in the city's urban streetscape. It will create new spaces for students and researchers to collaborate with business and community leaders. It will advance Dal's leadership in key research areas—clean technology, advanced material and ocean-related engineering. And, in conjunction with the adjacent Central Library, nearby startup companies, business commissions and research hospitals, Sexton will be the heart of an innovation district that positions Halifax as a hotbed of creativity.

"The future of Dalhousie and the future of Nova Scotia are inextricably linked," says Dalhousie President Richard Florizone. "(The IDEA project) is our way of saying, 'We're a university city, we're a centre of creativity and a centre of innovation.'"

More than a simple facelift, the IDEA project will add two entirely new buildings to Dal's downtown campus. The Innovation Building will house new workshop spaces for students in Engineering and Architecture and Planning, the two faculties that share Sexton Campus. It will also feature spaces dedicated to students working to create start-up companies. The new Design Building, meanwhile, will be the home of a 450-seat auditorium that can host large classes and community events. The development will include additional studios for Architecture and Planning students, including space devoted to the Landscape Architecture program. Together, the buildings represent the first new capital construction projects on Sexton Campus in more than 40 years.

But the scope of the project goes beyond new buildings. Existing structures will also benefit from upgrades and additions to their facilities that increase both the research potential and the sustainability of the campus. And all of it is made possible through funding partnerships linking students, alumni, corporate and individual donors, and the Government of Canada, whose \$32 million infusion from the Post-Secondary Institutions Strategic Investment Fund has been critical in bringing the full IDEA vision to life. "Investments like these in Atlantic Canada will support our world-class researchers and position Canada as a global leader in research excellence and innovation," says Minister Scott Brison (BComm'89), president of the Treasury Board. "Through the Strategic Investment Fund, we are providing Canada's students with the education and training they need to join a strong, healthy middle class."

Dr. Florizone is quick to note that, while the new and improved facilities will be impressive in their own right, their value lies in the human potential they will unlock.

"This project isn't just about space," he says. "It's about people."

The people who stand to reap perhaps the most direct benefits of the reimagined campus are students in the Engineering and Architecture and Planning faculties. IDEA will grow the teaching and learning capacity for an Engineering faculty that has dramatically increased undergraduate enrolment in the last decade, and an Architecture and Planning faculty whose enrolment has been artificially limited by a dearth of available studio space. Even more significant, the upgraded facilities will give students more hands-on learning opportunities. "As an engineer myself," says Dr. Florizone. "I know that half the education takes place in the laboratory."

The IDEA project will advance the university's reputation for producing graduates who are ready to succeed in a professional environment. "(Dal-housie graduates) are the first choice of a lot of large companies and what they tell us is that our students have a strong theoretical background but also are very practical engineers with a lot of hands-on skills," says Joshua Leon (BSc'80, MSc'82, PhD'88), dean of Engineering. "We've introduced more hands-on components into our programs and reinforced the problem-based learning part of our curriculum."

Christine Macy, dean of Architecture and Planning, echoes Dr. Leon's belief that education is about to get better for students in their respective faculties. "Engineers build things all the time and they're not going to learn how to do that in a classroom," she says. "They need these design labs where they can cluster together and work together in small teams."

Dr. Macy says students in the Faculty of Architecture and Planning, which also emphasizes experiential learning, will enjoy similar benefits. "Access to the Innovation Building labs is going to allow our students to engage in concrete fabrication, metalwork fabrication and all kinds of design activities that are central to our curriculum."

In other words, students in these faculties learn by doing and the IDEA project gives them the tools to do what they do best. The students themselves are keenly aware of this and are putting a substantial amount of financial muscle into the project. In separate referendums, students in Engineering and Architecture and Planning voted in favour of a voluntary annual fee of \$200 to help support the project.

"Students have been tremendously supportive and are really excited about a project that is going to make it a lot easier to deliver the programs we want to deliver," says Dr. Leon.

ECONOMIC IMPACT

For students, the IDEA project isn't just about the years they'll spend on campus. With space and programming dedicated to incubating and accelerating startup companies, as well as opportunities to work on projects for existing companies, students can start building the foundation of successful careers long before they graduate.

"Students who are developing ideas for companies are going to have access to the same equipment they have for their class work and that the professors have for their research," says Dr. Florizone. Spaces like a new Learning Commons will also bring students together to share ideas across faculties, encouraging the creation of the kinds of small creative "clusters," to use Dr. Macy's phrase, that can make an impact through innovation.

In this sense, the educational transformation spurred by a revitalized Sexton Campus is linked closely to the economic future of Atlantic Canada, as well as the university's role in mobilizing intellectual capital for economic benefit. If Dalhousie's mission is based on excellence in teaching and learning, research and service, Dr. Florizone sees building a strong regional economy as a key element of the service piece. "Catalyzing the economic and social development of this region is so important," he says. "It's our responsibility to step up."

This responsibility is woven into the DNA of the faculties that reside on Sexton Campus. "Nova Scotia Technical College was founded in 1907 with a mandate to do three things," says Dr. Leon. "One was to educate engineers for the good of the Nova Scotia economy, two was to do applied research to support the Nova Scotia economy and three was to provide well-paying jobs in Nova Scotia." Although the faculty has evolved, first becoming TUNS and then integrating into Dalhousie, Dr. Leon says, "We're still trying to do all three of those things."

The IDEA project positions Dalhousie to play a leading role in an economy that is increasingly based on creativity and innovation. In addition to connecting startup businesses with modern tools and academic researchers, the new and refurbished facilities will allow the Sexton faculties to expand the services they already provide to companies big and small via the Nova Scotia Product Design and Development Centre.



ABOVE, the Design Building viewed from Sexton Field. Together with the Innovation Building (the atrium of which is shown on page 13), the buildings represent the first new capital construction projects on Sexton Campus in more than 40 years.



"We work with over 200 companies at any given time and about half of those are Nova Scotia companies," says Dr. Leon. From prototyping to product development to product and design support to consulting on operational efficiencies, the work done by the Faculty of Engineering for external clients can only grow with additional and improved facilities. "We'll be able to expand our footprint considerably," says Dr. Leon.

Bringing the physical space and technology at Sexton up to modern standards will benefit students, researchers, local entrepreneurs and companies of all sizes—and in doing so, will rev the engine of the local and regional economy.

A NEW VIEW

The IDEA project is an exciting development even for those with no connection to Dalhousie. After all, the new buildings and the spaces around them are intended to transform the urban environment in a central block of the downtown core now anchored by the Central Library.

For decades, citizens could be forgiven for mostly ignoring the Sexton Campus street-front. Other than a renovation of the studio spaces in the Medjuk Building in the early 2000s, it's a view that has remained largely unchanged.

According to Dr. Macy, the opportunity—and the design objective—of the campus refresh is to create spaces that are welcoming to all citizens. "We wanted a porous campus. We want people to walk through it," says Dr. Macy, whose team played an important role in designing the project. "We wanted to consolidate the site as a hub and make the campus feel like part of the city."

These goals are realized in part by spaces that open up the activities of the campus to the world. Workshop spaces will be glassed in and visible to the public, making the ingenuity of students and researchers accessible to all. Bright, clean promenades will link buildings in a manner that invites casual strolls and curious observation.

Dr. Macy adds that the public will also benefit from events that can be held at the new lecture theatre, as well as design-based exhibitions on campus. "We want to give back to the city in a lot of ways, including financially and culturally."

The IDEA project is about giving back, but also looking forward—to the transformation of a university, a city, a region and, above all, people. A revitalized Sexton Campus is where students will get an elite design-based education, where new companies will be formed and existing ones take important steps forward, where citizens and visitors to Halifax can watch it all unfold in the heart of the city. It's also where the countless supporters who nursed the project from its infancy to its final destination can celebrate their successful collaboration.

"It was such a dream of John's that I wanted to help keep that dream alive," says Marjorie Lindsay. Thanks to people like the Lindsays, an entire region can now dream bigger.



ABOVE, the Design Building from Morris Street. In conjunction with the Central Library, nearby startup companies, business commissions and research hospitals, Sexton Campus will be the heart of an innovation district that positions Halifax as a hotbed of creativity



More than a simple face lift, the IDEA project will add two entirely new buildings to Dal's downtown campus: The Innovation Building and the new Design Building. Together the buildings represent the first new capital construction on Sexton Campus in more than 40 years. ABOVE, the Design Building Amphitheatre. BELOW, a section perspective on the Design Building.





How can we build a stronger Nova Scotia economy? That's the question regional leaders are tackling in a one-of-a-kind global innovation and entrepreneurship program. BY MATT REEDER



A unique global program run by the world's topranked university is set to help Nova Scotia develop new strategies to address one of the province's most pressing issues: building a stronger economy. A team of leaders from across the province—including Dal President Richard Florizone—have joined forces to participate in a Massachusetts Institute of Technology (MIT) program designed to empower regions to improve their capacity for innovation, entrepreneurship and social progress.

With only up to eight regions accepted into the program each year, the MIT Regional Entrepreneurship Acceleration Program, or MIT REAP, offers teams from around the globe direct access to MIT's world-leading innovation experts and a one-ofa-kind opportunity to learn from each other. Nova Scotia is the first Canadian region to be accepted into the program. Although the province already has many promising innovation-driven enterprises, pressing economic and demographic challenges have increased pressure on leaders to uncover new ways to accelerate the region's capacity.

That opportunity for collaboration is part of what excites Tracy Kitch, one of nine leaders volunteering their time to contribute to the Nova Scotia team's efforts over the next two years. "I think the energy for change will come from working in diverse groups across the province, not in our typical siloed ways," says Kitch, who is president and CEO at the IWK Health Centre. "It's not that innovation isn't there and that it isn't happening, it's how we are spreading and scaling it."

The MIT REAP approach builds on the idea of an "innovation ecosystem," where closer collaboration between key groups—entrepreneurs, universities, government, the corporate sector and risk capital—has the potential to open up new possibilities for innovation-driven entrepreneurship. That could include cultivating new startups with growth and export potential, fostering social enterprises to meet public needs and encouraging collaborations that create value within public systems (such as improved efficiencies or outcomes within health care, for example).

"We spend a lot of time getting to know the regions and we want to make sure the program is customized to each one, which is the reason we keep it very small," says Sarah Jane Maxted, MIT REAP's executive director, adding that the program is geared to creating a platform for regional leaders to engage in more constructive and actionable conversations about regional innovation and entrepreneurship.

The two-year program involves workshops with MIT staff and faculty and engagement with stakeholder communities across Nova Scotia. A core team, funded by private-sector partners, will work directly with MIT experts as well as with teams from other regions at four separate three-day workshops over the course of the two years. In between workshops, the core team will engage stakeholder communities and build out broader networks, developing and implementing new initiatives to strengthen the province's competitive advantages and its innovation ecosystem. REAP is an inclusive process, driven from the ground up in each region while being informed by global best practice.

Each region's REAP initiatives differ depending on their own unique advantages and needs. Leaders from Scotland, for example, created a new online program called Can Do Scale to democratize entrepreneurship education, ensuring it is available to anyone. Veracruz, Mexico, set up an organization called iLab to help connect young entrepreneurs with the corporate sector. Nova Scotia could choose to focus its initiatives on any number of different sectors, from oceans and clean energy to life sciences and hardware design.

"This is an important opportunity for leaders and other stakeholders across our province to come together and explore ways we can build a brighter social and economic future for Nova Scotia," says Dr. Florizone, who will serve as regional champion for the province's team.

Other members of the Nova Scotia REAP team, in addition to Dr. Florizone and the IWK's Kitch, include Bernie Miller (BA'84, LLB'88), former N.S. deputy minister of planning and currently partner at McInnes Cooper; Chris Huskilson, CEO of Emera; Jevon MacDonald, former general manager at Salesforce.com and co-founder and CEO of GoInstant; John Knubley, federal deputy minister of innovation, science and economic development; John Risley (LLD'05), co-founder of Clearwater Fine Foods; Murray Coolican, N.S. deputy minister of business; and Patrick Keefe, general partner with startup fund Build Ventures.







How can we work to ensure the ocean's—and our planet's—health? Governments, business and private donors have made an unprecedented investment in ocean research at the new Ocean Frontier Institute, propelling Canada to global ocean leadership. BY RYAN MCNUTT

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hrough his work, Dalhousie conservation biologist Boris Worm talks to many people whose lives connect to the ocean—researchers, fishers, naturalists, divers. And as of late, they're all telling him the same story: 2016 has been a very unusual year.

"Totally bonkers" is how Dr. Worm actually describes it. "The sea turtles arrived very late and in small numbers. There's hardly any blue sharks there. Water temperatures are up and down. Fisheries are different; crab's not doing well. There are all these indicators that something's changing—but you can never call it a trend if it's just one year. We need to look carefully and understand these changes in the context of the long term."

His colleague Sara Iverson also has eyes on the changing ocean—hundreds of eyes (and ears) around the world, in fact. Dr. Iverson is scientific director of the Dal-hosted Ocean Tracking Network, a global network that tracks marine life using state-of-the-art acoustic receivers, telemetry tags, ocean gliders and other oceanographic equipment. Discussing the challenges in managing shifting ocean ecosystems, she notes an example that hits home for Atlantic Canadians: cod populations in the Northwest Atlantic that were decimated by overfishing.

"There is clear evidence the northern cod is coming back, which after the moratorium and decades having passed is very exciting," she says. "But we cannot just go in and start to fish again without first understanding exactly where they are, where they're moving, where they're spawning, the times of the year we absolutely shouldn't touch them and, most importantly, how to design a sustainable fishery for the future."

Farther north, in the region that serves as Canada's gateway to the Arctic, Aldo Chircop (LLM'84, JSD'88) is watching ocean change of a different sort: melting ice that's opening up new transportation routes. A faculty member in the Schulich School of Law, Prof. Chircop is a Canada Research Chair in Maritime Law and Policy, with a particular interest in how Canada and other nations will manage these Arctic pathways.

"Just recently there was a report showing much of the southern portion of the Northwest Passage is now ice-free, essentially navigable," he explains. "We're going to see more and more traffic there, which will mean increased safety and environmental risks, but we are still developing the legal framework for it."

Three different researchers, sharing three different ex-

amples of ocean change—each raising complex issues too large for one academic discipline, one economic sector or even one country to solve on its own. Hence, the new Ocean Frontier Institute: a Dal-led international initiative to better understand and manage ocean changes, and one set to propel Canada to global ocean leadership like never before.

"It's an absolute game changer," says Dr. Worm.



ormally, you can see the ocean from the fourth floor of Dalhousie's Steele Ocean

Sciences Building. But on the first day of classes this past September, the Northwest Arm is shrouded in a typically dense Halifax fog. There's not much to look at inside the room either: the space is unfinished, nothing more than a well-lit concrete floor.

But while there's little to see, there's much to celebrate.

More than 200 scientists, politicians, Dal staff and community members have gathered to hear news of the largest research grant in Dalhousie's history: \$94 million from the federal government through its Canada First Research Excellence Fund. The event is the formal kickoff for an ambitious project uniting the leading universities in three Atlantic provinces together with four of the top five ocean institutes in the world, alongside government, industry and donor partners. Their shared goal: ensuring a sustainable future for one of Earth's most important resources.

The Honourable Scott Brison (BComm'84), president of the Treasury Board, echoes Dr. Worm's language in announcing the funding for the Ocean Frontier Institute, or OFI. "This is a game-changing university partnership that will transform Atlantic Canadian ocean research from world class to world leading," he says.

"Canada has just placed a huge vote of confidence in this region," adds Dal President Richard Florizone. "And what better place for this visionary investment than right here in Atlantic Canada? We are entirely up to this challenge, with an incredible collaboration that brings together the very best in this region with the best in the world."

In a few months' time, the empty fourth floor of the Steele Building will be filled with activity. It will house offices and workspaces for OFI staff, postdocs and students, all working to mobilize a comprehensive research program



It has many names the Atlantic, the Pacific, the Arctic—but in fact, the world has only one ocean, spanning the globe



Its endpoint would become an international, interdisciplinary ocean institute

spanning academic disciplines and linked directly with policy-makers and industry. With financial support totaling nearly \$220 million, OFI aims not only to study the changes happening in the Northwest Atlantic ocean—a region of significant scientific interest—but also develop new strategies for safe and sustainable ocean development. The result will be one of the world's most comprehensive ocean science collaborations, focused on what might be (with apologies to Captain Kirk) the true final frontier.

Through its research, OFI aims to have an impact in a wide variety of areas: prediction and mitigation of major storms; better understanding of the North Atlantic's role in global climate change; improved management of the ocean's living resources; more sustainable approaches to aquaculture; improved marine transportation policy and risk reduction; and new data capture and IT tools to monitor the ocean. OFI will also help educate future ocean leaders, from its training programs for students and postdocs to Ocean School, a youth outreach initiative led by Dal and the National Film Board.

"We're able to go to Mars, but we still don't really know what's happening at the bottom of the ocean," says Julie LaRoche (MSc'81, PhD'86), Canada Research Chair in Marine Biogeochemistry and Microbial Genomics at Dal. "It's the last frontier on our planet that's still unexplored."



artha Crago sits in her office in Dal's Henry Hicks Building, engaging in a

cartography exercise of sorts: mapping out OFI's journey from idea to reality. Her blue pen darts across three sheets of white paper, its twists and turns revealing names and acronyms spanning the past decade of Dal ocean research.

There's OTN (the Ocean Tracking Network); MEOPAR (the Marine Environmental Observation Prediction and Response network); CERC.Ocean (the Canada Excellence Research Chair in Ocean Science and Technology held by Doug Wallace); COVE (Halifax's Centre for Ocean Ventures & Entrepreneurship, a new incubator and science park set to open in the former Coast Guard base on the Dartmouth waterfront). Even Angela Merkel, German chancellor, makes an appearance thanks to her 2012 campus visit when she witnessed the signing of an agreement between Dal's Institute for Ocean Research Enterprise and three major German ocean-related science institutes.

This particular map is strictly for background, but Dr. Crago engaged in a similar process shortly after arriving at Dalhousie University in 2008 as the university's new vice-president, research.

"When I was first looking at coming to Dal, I was struck by the ocean expertise here: the Department of Oceanography, all the profs across the university who work in ocean-related science and scholarship," she recalls. "And then you learn about the five federal labs in town and the amount of ocean industry. I thought right then: 'This could be something.' If we can get the university, the federal labs and industry working together, collaborating towards a shared goal—that's your cluster."

Together with Iain Stewart (BA'90, DMA'91, MPA'93) (recruited from Industry Canada to serve as assistant vicepresident, research, and is now president of the National Research Council), Dr. Crago charted a plan that envisioned a rising tide of Nova Scotian ocean research, backed by significant funding and powered by a growing international profile. Not everything in that plan has happened exactly as outlined but the broad strokes have stayed remarkably similar. Its endpoint would become an international, interdisciplinary ocean institute, one modelled after global exemplars like Germany's GEOMAR (an OFI partner).

OFI's opportunity came with the announcement of the Canada First Research Excellence Fund in late 2014. The \$1.5 billion federal government competition sought funding applications from universities for projects that would propel Canadian research to global excellence. Dal's proposal for OFI took months to assemble, with hundreds of meetings, consultations, brainstorming sessions—tapping into the depth and breadth of ocean expertise across the university. Along the way, OFI grew—more diversity in academic disciplines; more collaborators, from federal government labs and the Canadian Coast Guard to the Nova Scotia Community College; more global connecters like GEOMAR and Woods Hole Oceanographic Institution in Massachusetts; more industry partners, from small local companies to international corporations like IBM.

"It became a much larger collaboration," says Paul Hill, chair of Dal's Department of Oceanography, who coordinated the application process. "We couldn't have 100 people in the room for every meeting, but we needed to make sure we were reaching out to the university community and our partners, getting people engaged in such a way that they could understand and contribute to OFI's potential."

Then there was the involvement of Memorial University and the University of Prince Edward Island. Each has particular areas of ocean research strength that complement Dal's: for example, UPEI's Canada Excellence Research Chair in Aquatic Epidemiology held by Ian Gardiner, and Memorial's expertise in offshore fisheries, aquaculture and coastal community engagement. But the idea of a formal inter-institutional partnership between all three universities was a novel one.

"There's certainly been competition in the past between Dalhousie and Memorial, because we have similar interests: we're both in smaller cities where the ocean plays a huge role in our economy and culture," explains Paul Snelgrove, Memorial professor and director of the Canadian Healthy Oceans Network. "But together, and with UPEI, we really bring a cluster that's unequalled. Seeing us working together is really quite wonderful and key to taking full advantage of this opportunity."

"The partnerships we have in OFI are truly spectacular," says Wendy Watson-Wright (BPE'76, MSc'80, PhD'86), who has returned to her alma mater to serve as OFI's CEO after having led UNESCO's Intergovernmental Oceanographic Commission (2010–2015), and Fisheries and Oceans Canada's Science sector prior to that. "All of our researchers have so much exciting work happening, which will contribute to our understanding of ocean changes and to developing sustainable solutions. Our opportunity here is to expand its reach and impact through collaborating more broadly and integrating the various disciplines, positioning OFI as a global best practice."

Also crucial to the OFI opportunity: community support, none more important than that of businessman and philanthropist John Risley. The founder of Clearwater Seafoods personally committed \$25 million to support OFI's operations, a gift that helped catalyze the whole project.

"It is enormously important the community appreciate the extent to which the institute has—and will—bring together so many partners across the Atlantic Canadian scene," says Risley. "I have every confidence OFI can become an engine for regional economic growth and firmly establish us as global leaders in ocean science." 0

f course, in many respects, Dalhousie and Atlantic Canada have always led in

ocean science. If one were to continue Dr. Crago's cartography exercise backwards in time, beyond the past decade, it would sketch a long, impressive legacy. You'd see the formation of Dal's Institute of Oceanography in 1959, with the Bedford Institute of Oceanography shortly thereafter in 1962. There would be faculty members like Robert Fournier, Elisabeth Mann Borgese, John Cullen, Ransom Myers (MSc'80, PhD'83). It would include programs like Marine Affairs, organizations like the Marine and Environmental Law Institute and spin-out companies like Halifax ocean tech firm Satlantic.

"Dalhousie is widely recognized as Canada's leading institution in oceans," says Marlon Lewis (PhD'84), founder of Satlantic and former Dal Oceanography chair. "This is about upping the game, positioning Dalhousie and Canada on the world stage of ocean research—in science, in engineering, as well as law, the social sciences and humanities."

Dr. Lewis' deep links to both ocean research and industry in Halifax are a big reason why he was hired as OFI's launch scientific director. He'll help kickstart a research program that covers 17 different interdisciplinary modules, each addressing a different topic related to the Northwest Atlantic and Canada's Arctic gateway. The reason for that geographic focus is about more than just proximity. The Northwest Atlantic is a region where ocean changes are happening first and fastest, with highly productive marine ecosystems and one of the most concentrated and active carbon sinks on the planet—helping mitigate climate change, but also seeing its effects more quickly.

OFI is not only an important opportunity for our ocean's future, but Atlantic Canada's as well. Dr. Crago was part of the One Nova Scotia Coalition, helping prepare an action plan that includes Nova Scotia's "Ocean Advantage" as one of its pillars in growing a stronger economy. OFI will help build on that rising tide of ocean research momentum in the region, providing the scientific, technological and human capacity to advance Atlantic Canada's ocean economy.

"OFI underlines and aligns with a renewed effort to have an Atlantic economy strategy, one based on the strengths of our different provinces and what we, as a region, can work collaboratively on," says Dr. Crago. "We need to do things together here to succeed—and working together is what OFI is all about."

"I have every confidence OFI can become an engine for regional economic growth"



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"The professors at Dal all accepted me, but more than that, they all wanted me to do well."

BUILDING A BETTER WORLD

Prescription for success

As Nova Scotia's first black pharmacist, Yarmouth's Bruce Johnson (BPhm'74) was a trailblazer. He's spent his career encouraging others to strive to meet their educational and professional goals. By Mark Campbell

ruce Johnson (BPhm'74) isn't quite sure how many young people he's inspired to become pharmacists over the past 40 years. But one person who followed in his footsteps holds a special place in his heart. "My oldest daughter, Vanessa (BPhm'10)," says Johnson. "I think this is a great profession. Every day, you get to help others, and you go home with a sense of satisfaction that you've done something important, that you made a difference. That's why I nudged her into doing it."

Johnson hasn't just made a difference as a pharmacist and role model; he's made history. When he graduated from Dalhousie's School of Pharmacy in 1974, he became the province's first black pharmacist, and forever changed the face of the profession. But he was only getting started. Since then, the lifelong Yarmouth resident has devoted himself to promoting diversity in his chosen field, in Nova Scotia's workforce and in the community.

"Young people need to see people of all races involved in the workplace," he says. "We have a very diverse culture out there, so we should have a wide range of people from all walks of life in different positions."

Although he has long promoted pharmacy as a career option through schools and organizations such as the Black Business Initiative, Johnson says his goal is a bit broader than that. "My message has always been 'Stay in school,'" he explains. "If you go on to pharmacy, that's great, but if not, it doesn't matter. The key is to get a good education. That's more important [than a particular career path]."

Johnson did not set out to become a pharmacist, noting that it was the influence of several Dalhousie alumni, including John Leo Mooney (BPhm'22), his son, Bill (BPhm'56), and Ray MacMillan (BPhm'60) who set him on his academic and career path. "Bill and his wife, Aurel, encouraged me to apply to the Yarmouth Hospital pharmacy for a summer position in 1969. Ray was the pharmacist there, so I learned a lot from him and discovered that I really enjoyed the work. Then Bill's brother, Fraser (BPhm'52), hired me for afterschool work, so their guidance and support helped pave the way for me."

In fall 1970, Johnson entered the School of Pharmacy and found it to be a very positive experience. "I enjoyed the professors at Dalhousie. They all accepted me, but more than that, they all wanted me to do well. It never bothered me to be the only person of colour. I was used to that, so I had the determination to achieve my goal."

Johnson subsequently devoted himself to helping others achieve their goals, not just by advocating education and pharmacy, but also as chair of the Black Employment Partnership at the Black Employment Resource Centre in Yarmouth, which he helped launch in 1997. "Before that, if you went to Manpower, you might see one visible minority," says Johnson. "We had black career workers, black managers and black assistants, so when you came in and looked for employment, you'd see people you'd recognize, and that would make you feel comfortable."

Johnson has become recognizable himself around the community through his charitable and volunteer work. He serves as a basketball coach and helps raise funds for recreational facilities on behalf of the Boys and Girls Club in Yarmouth. He's a member of the Yarmouth Refugee Support Group committee, which has helped resettle one Syrian family in the region and is working to bring in more. And he serves on a committee that is working to establish a dedicated hospice facility in the area.

All of that activity is impressive when you consider that Johnson is also a partner in City Drug Store, where he has been a constant presence for more than 40 years. It's a milestone that has him thinking of what comes next. "I'm looking forward to retirement," he admits. "Not to disappear, but to do other things. I'm still going to be busy in the community, maybe even busier."

Besides, there is another generation of young black Nova Scotians to encourage and inspire, and maybe one beyond that. "I'm hoping, when my daughters start a family, we might encourage their children to go into pharmacy, too. That would be a nice legacy."







TOP Johnson in his Yarmouth pharmacy. LEFT Johnson (#23) and his Dal teammates gearing up for the 1970 basketball season. RIGHT In 2007, Johnson was awarded the Bowl of Hygeia which recognizes pharmacists who have outstanding records of civic leadership and community service.

For nearly 200 years, Dalhousie alumni have made extraordinary contributions that positively impact the lives of others. We're featuring just some of these graduates in our Building a Better World series. READ ABOUT OTHER INSPIRATIONAL ALUMNI AT ALUMNI.DAL.CA/ BUILDING-A-BETTER-WORLD.



Each year, the Dalhousie Alumni Association Awards recognize a number of Dalhousie alumni for their outstanding accomplishments and contributions. These remarkable individuals are carrying on Dalhousie's nearly 200-year tradition of excellence.

RECOGNITION

2016 Dal Alumni Association award winners

THE LIFETIME ACHIEVEMENT

AWARD recognizes alumni for exceptional accomplishments in career and community service

If anyone has had a profound effect on people's lives, it's Dr. John Akabutu (MD'67). He's been at the forefront of pediatric cancer and hematology treatments in Alberta for more than 30 years, helping to save hundreds of lives.

The founder of the University of Alberta's Pediatric Hematology and Oncology Division, Dr. Akabutu led an effort that increased survival rates from less than 10 per cent to 95 per cent among children with leukemia in Northern Alberta. He created a mouthwash to treat sores caused by chemotherapy and radiation therapy that is now used for other procedures and in emergency rooms across the province. And he introduced a revolutionary preventative homecare program that led to a reduction in emergency room visits for hemophiliacs in Northern Alberta.

"I don't think there is any better recognition than that of your alma mater," says Dr. Akabutu about the award. "That's really the crème de la crème for me."

Although retired, Dr. Akabutu continues to heal and innovate as the head of the Alberta Cord Blood Bank, which he founded in 1996. A doctor who has given patients hope that they can live without illness, motivated colleagues to be inventive in the delivery of medicine and inspired others to follow in his footsteps, Dr. Akabutu proves medicine is more than a profession; it is a passion.

THE VOLUNTEERISM AWARD

recognizes alumni for outstanding volunteer contributions to the community

From Canada to Cameroon, Dalhousie Law School alum Glenn Dodge (BComm'91, LLB'94) has devoted himself to making a difference in the lives of others whenever and wherever he can, spending nearly a decade volunteering overseas.

Through the Voluntary Service Overseas organization, he helped develop an advocacy centre for children's rights in Nigeria. In Bangladesh, he helped young people become more effective in their social activism by setting up a system to evaluate activity outcomes. He assisted in coordinating relief response efforts during seasonal flooding in Laos with the United Nations. And he served as project manager with the Muslim Students Association of Bamenda (MUSAB) for an initiative to help eradicate the abuse of widows in northwest Cameroon.

"When you give back, there's a sense that you're helping people in difficult situations feel like human beings again," says Dodge.

That impressive career of advocacy and community involvement continues through Dodge's work with the Justice Education Society of British Columbia. As B.C. program director, he is helping to make the legal system more approachable for youth, immigrants and Indigenous People.

THE A. GORDON ARCHIBALD AWARD recognizes alumni for outstanding volunteer contributions to Dalhousie

For 12 years, Kevin Bourgeois (MBA'96) has devoted countless volunteer hours to making



Dalhousie University's varsity track and field program one of the best in Canada. The horizontal jumps and combined events coach has helped produce provincial, regional and national champions such as team captain Jessica Shannon, among others.

"He's inspired athletes and helped develop them in their respective events," says Shannon. "He brings an enthusiasm and a passion to the sport that is unparalleled."

Bourgeois says the opportunity to help Dalhousie athletes achieve their dreams on and off the field keeps him coming back. "The students I coach are more than athletes. They want to be good students, ambassadors of the university and role models, and I get to help them do that—to encourage them to make a difference in the world."

More than an exceptionally devoted coach, Bourgeois has also proven himself to be a top financial supporter of the track and field program, covering equipment and travel expenses. "I believe you have to give back, especially if you have the means to do it. That's why I contribute regularly: I want to encourage more people to make a gift to the program and to athletics in general at Dalhousie."





CLOCKWISE FROM LEFT Glenn Dodge, R. John Akabutu, Drs. Asile and Asraa El-Barahali, Kevin Bourgeois

THE CHRISTOPHER J. COULTER AWARD recognizes recent graduates for innovative accomplishments and contributions to society, the community and Dalhousie

Sisters Asile (BSc'03, DDS'08) and Asraa El-Darahali (DDS'13) are not yet 40, but these dentists have already built a legacy of accomplishments, professional successes and community commitments that could fill several lifetimes. Longtime mentors, volunteers and fundraisers, Asile and Asraa have touched lives near and far through initiatives like the Spirit of Ramadan, a community food and funding drive, and Coats for Humanity, which provided 1,100 new and used coats donated to children and adults throughout the municipality of Halifax.

But perhaps their most ambitious undertaking was a fall 2015 trip to the Jordanian border to provide volunteer dental services to Syrian refugees. Inspired in part by the kindness they encountered from Canadians when their family escaped Kuwait during the Gulf War, the sisters took it upon themselves to share that spirit of generosity with the world. "The sacrifices the refugees made to get to the camp far outstripped ours," says Asraa.

Delighted to be recognized by their fellow alumni, both Asile and Asraa see this as an opportunity to mobilize others to make a difference. "You don't have to change the world for everybody," says Asile, "but if you can change it for one person, that's what matters."

NOMINATIONS FOR THE 2017 DAA AWARDS ARE NOW BEING ACCEPTED. NOMINATION DEADLINE IS FEBRUARY 15, 2017. FOR MORE DETAILS ABOUT THE AWARD WINNERS, VISIT ALUMNI.DAL.CA/AWARDS

"Women are invisible in Halifax's history and public art. We're working to change that."

SPOTLIGHT

Out of history's shadows

A group of Dal alumnae are among those working to put women's wartime efforts in the spotlight

ive Dalhousie alumnae are among those launching a national campaign to bring the story of women's contributions to the Canadian war effort to Halifax's waterfront. The Halifax Women's History Society (HWHS) hopes that the Woman on the Waterfront (WOW) campaign will result in placing the monument The Volunteers/Les Bénévoles on a donated site near the Halifax Seaport Farmers' Market. "Women are invisible in Halifax's history and public art, yet their con-

tributions are very real," says Mary Somers (MPA'96), communications chair for HWHS. "We're working to change that."

HWHS Chair Janet Guildford (BA'67, MA'83, PhD(History)'90) says women and girls' volunteer work during the Second World War was highly varied, and evolved to meet the needs of the city. "Halifax was as close to the front as you could get in Canada during the Second World War. Virtually overnight, the population doubled in a city still recovering from the Depression," she says. "Women gave countless hours of unpaid work, filling in gaps left by governments that did not have the resources to adequately fund the war."

Women volunteers provided nursing care, respite and hospitality through the Red Cross, St. John Ambulance and the IODE. They organized canteens, cooked and served thousands of meals, made bandages and surgical dressings, knitted clothing, arranged blood drives, ran the rationing program and more—all in support of the war effort. Yet there are virtually no monuments to these or any women in Halifax today, and very few in Canada. In fact, out of over 100 statues, cairns and plaques in the city, fewer than a dozen are of women (and most of those are figures from mythology).

In addition to Somers and Guildford, the Society includes Dalhousie graduates Frances Gregor (BN'67, MN'79, PhD(Education)'94), Elizabeth Ryan (nee Shupe) (BA'69) and Robin MacInnis (BComm'68). They have secured a location for the monument from the Port of Halifax and have already received two gifts totaling \$200,000. They have raised another \$50,000 in member donations and grants.



Women volunteers supported the war effort in the Second World War in myriad ways. The Halifax Women's History Society is working to ensure that contribution is honoured and remembered.





A call for proposals will go out for Canadian women sculptors for the project, and the group is planning to unveil the monument in 2017.

Dr. Guildford says it's difficult to quantify exactly how much volunteer work women provided. But a booklet published at the end of the war by the Province of Nova Scotia claims there were more than 52 million encounters between volunteers and those who needed volunteer service assistance.

"These women were known and appreciated in their era. It's only now that their stories have faded."

Find out more by visiting the project's website halifaxwomenshistory. ca. —*Dawn Morrison*



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"The Forsythes' support will continue to inspire me throughout my career in psychiatry."

DONOR PROFILE

From machines to medicine

An innovator in the field of psychiatry, Dr. Robert Forsythe's impact and legacy carries on through the Dr. Robert and Mrs. Forsythe Prize

he late Robert Forsythe (MD'53) entered the world of psychiatric medicine at a time of fundamental changes—the years just after the Second World War. And it was undoubtedly his own firsthand experiences as a war pilot that influenced his decision to pursue medicine at Dalhousie in 1948. "Bob always had an interest in people, but what he experienced during the war only heightened his curiosity and made him want to help others," says Dorothy Forsythe of her late husband.

While Dr. Forsythe was training to be a physician, the health-care system was feeling the aftereffects of war: understaffing, overcrowding and the lack of effective treatments often led to restrictive care, relying on methods involving seclusion, as well as chemical and physical restraints. As his education and experience evolved, Dr. Forsythe recognized that medical science was on the cusp of developing effective treatments for psychiatric illness.

"When Bob began his career in the late 1950s, mental health was vastly different," recalls Dorothy. "In fact, he was the first psychiatrist to use antipsychotics in P.E.I. It was the first time the staff had seen real changes, and the patients benefited too. The health and welfare of his patients always came first."

Over the course of his 50-year career, Dr. Forsythe continued to influence the field in many ways, including as director of mental health in P.E.I. and as chief medical adviser, psychiatry and neurology for the Department of Veterans Affairs. Making a difference in the lives of his patients always remained his top priority.

Thanks to the Forsythes' generosity, his legacy and passion for helping others will live on through the Dr. Robert and Mrs. Dorothy Forsythe Prize, which recognizes a graduating student in the Faculty of Medicine with an aptitude and interest in psychiatry.

"Creating this award was a way to give back to Bob's alma mater, which has always held a special place in our family," says Dorothy. "We also saw it as a terrific opportunity to support students who could make

DANNY ABRIEL

great contributions to the field someday."

While Dr. Forsythe passed away just months before the first prize was awarded in May 2015, Dorothy says they were both extremely proud to support a student and recognize his hard work and dedication to psychiatry. For Andrew Dutcher (MD'15), the first recipient of the prize, it was an honour to receive the award commemorating someone he sees as an innovator. "Dr. Forsythe's career was very inspiring," says Dr. Dutcher, who is doing a psychiatry residency in Calgary. "The Forsythes' support meant a great deal to me during my fourth year of medicine and will continue to inspire me throughout my career in psychiatry." — Fallon Bourgeois



"Creating this award was a way to give back to Bob's alma mater," says Dorothy Forsythe (right) of the award named in honour of her husband, the late Dr. Robert Forsythe (left).


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"I call Dalhousie my compass for success."

SPOTLIGHT

Programmed for success

Travis McDonough (BScK'94) is building a business by pairing his passion for sports with the science of improving athletic performance

atching waves lap the shores of Georges Island from his new waterfront office, Travis McDonough (BScK'94) can't picture himself anywhere else.

McDonough, CEO and founder of Kinduct Technologies Inc., a Halifax-based performance tracking software company used by nearly 50 professional sports teams, has held many titles: licensed chiropractor, professional tennis player and boxer, to name a few. Although he says each experience has helped get him where he is today—including getting knocked out cold on live television—he thinks his time at Dalhousie provided the real impetus for the success of Kinduct.

"I call Dalhousie my compass for success. Honestly, I cared more about sports when I first started, but the Kinesiology program really opened my ideas as to how I could combine my interest in sport and wellness," McDonough explains, as he enthusiastically points out a massive container ship passing through the narrow swath of ocean between the island and his office.

Kinduct Technologies is the result of a less-than-average path to business success. During a 10-year sojourn in Ireland, McDonough, then running several wellness clinics and playing for the Irish National Tennis Team, began developing what would eventually become Kinduct.

Put simply, Kinduct's software gathers an athlete's physical information from a wide array of different devices that measure heart rate, sleep patterns, diet and more. The software then evaluates the data and determines what changes are needed to ensure the athlete is performing at their top level.

With clients like the Golden State Warriors, the New England Patriots and the LA Dodgers, Kinduct is a rapidly growing business.

"Six years ago, when we started, the office was in a basement, you know, with the boiler in the same room, a few mice. We're really lucky to be where we are today," he says. "Yes, we have some big name clients, but I think our real success is promoting growth and creating jobs here



"I think our real success is creating jobs here in Halifax," says McDonough.

in Halifax." McDonough says Kinduct has already created more than 45 jobs locally with a number of those hires being Dalhousie students and graduates. He says one of the best parts of being located in Halifax is having access to the relatively untapped market of bright young talent coming out of local schools, pointing to a young man exploring the office with a dossier in his hand. "In fact, there's a Dalhousie student right there!"

"We work closely with the Kinesiology department at Dalhousie, through co-op programs, mentorships and other programs. It's great for them, and us," he says.—*Tyler LeBlanc*

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Get in the picture at an upcoming alumni event







TOP Halifax Chapter members helped out at the IWK Telethon. ABOVE LEFT Alumnus Rajeev Chowdhury and his daughter Sujaya Chowdhury, current Dal Dentistry student, at the Halifax Pride Parade ABOVE RIGHT Attendees at the Calgary lobster dinner in May RIGHT Tigers volleyball alumni Sasho MacKenzie (BSCK'00), Steve Boyd (BSC'92), Darren Calabrese (BA'03), and Colin Stairs (BA'05) at the August Dal Golf Classic in support of Tiger Athletics BELOW The President's Fun Run, Homecoming 2016





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ALUMNI EVENTS

Connecting and giving back

he summer was no break for Dal alumni determined to make an impact in their communities. Halifax Chapter volunteers teamed up with current students to run a water station at Halifax's Blue Nose Marathon in May. The Chapter came together again in early June to work the phones at the IWK Telethon for Children, helping to raise over six million dollars. Halifax Chapter alumni also participated in the Dal contingent of the 29th Annual Halifax Pride Parade.

CHAPTER EVENTS The Calgary Chapter and Engineering alumni lobster dinner brought together 62 alumni at Calgary's International Hotel on May 27. Alumni reconnected over lobster shipped directly from Halifax, while hearing updates from Dean of Engineering Dr. Joshua Leon. The Toronto Chapter gathered baseball fans for a Blue Jays Game on June 1. Toronto-area alumni came together again on July 8 for a special performance of the critically-acclaimed *Skylight*, starring Lindsay G. Merrithew (BComm'82) and involving Tony Baylis (BComm'80) and Debra Hanson (BA(Theatre)'72). In September, the Beijing Chapter co-hosted a reception with President Richard Florizone.

FROM HALIFAX TO AUSTRALIA Over 100 math and science alumni returned to Dal on August 8 for a public lecture by Dr. Jamie Vicary about the future of quantum computers and their effects on society. On August 25, alumni joined Kevin MacDonnell, Dalhousie's associate director of advancement data and analysis, for an intimate evening of conversation in Sydney, Australia. Also in August, over 120 alumni and friends gathered at Glen Arbour Golf Course for an annual favourite, the Dal Golf Classic, in support of Dalhousie Athletics.

ALUMNI SUPPORTING NEW STUDENTS Alumni volunteers and the alumni engagement team welcomed new students at fall orientation. New students met their faculty alumni officers, received Dal memorabilia, enjoyed a photo booth and learned how to connect with alumni.

HOMECOMING 2016 From October 13–15, the alumni family gathered for a fun-filled weekend with events across Dalhousie's Halifax and Truro campuses. From faculty-specific events to the Alumni Dinner and President's Fun Run, Dal's seventh annual Homecoming brought together alumni of all ages to reconnect, network and celebrate shared connections. Alumni worldwide also took part in Dal's first-ever Global Homecoming with events hosted by each of Dal's 16 Alumni Chapters. SUBMITTED: PRIDE PHOTO: JORDAN ZARVIE; RUN PHOTO: NICK PEARCE

CLASS NOTES

1960s

'60

RON GILKIE, BSc, BEng'62, MEng'64, was co-chair of the 2016 Canadian Society of Senior Engineers (CSSE) AGM and Awards Dinner held in Halifax on May 21. At the event, four engineering graduates of Dal (Nova Scotia Tech/TUNS) received fellowships in recognition of contributions to their profession, country and community.

'67

SHEILA CLEMENTS, DSTN, a retired nurse educator from SK Polytechnic, received a Life Membership Award from the Saskatchewan Registered Nurses' Association in May, 2016 for outstanding contributions to nursing.

1970s

'72 DR. COLIN LEVINGS,

PhD (Oceanography), has published a book with UBC Press, titled Ecology of Salmonids in Estuaries Around the World-Adaptations, Habitats and Conservation. Colin is an emeritus scientist with Fisheries and Oceans Canada and an adjunct faculty member at the University of British Columbia. Colin and his wife Kay live in Lions Bay, B.C. and also spend time in Pender Harbour, where Colin teaches their five grandsons to fish.

DR. THOMAS MCKENZIE,

MSc, Professor Emeritus, School of Exercise and Nutritional Sciences, San Diego State University, received the 2016 Research Quarterly for Exercise and Science (RQES) Lecturer Award at the recent SHAPE America National Conference in Minneapolis, Minn.

'**73**

ROB BETHUNE, BSc, retired on Dec. 1, 2015 after eight years as faculty in the Medical Laboratory Technology Program at Nova Scotia Community College (NSCC), teaching microbiology and molecular diagnostics. Before going to NSCC, Rob worked for 26 years in microbiology at the QEII Health Sciences Centre and helped develop more accurate and rapid methods for detecting herpes simplex virus, influenza, mumps, EBV, MRSA and VRE. Rob feels that it is great to be able to say without a doubt that you have saved lives due to your career. Rob is currently chair of the Nova Scotia College of Medical Laboratory Technologists and advocates for safe and accurate laboratory testing.

'75

DR. RENN HOLNESS, PGM, has been selected by the

Canadian Neurosurgical Society (CNSS) to receive The Charles Drake Medal, its lifetime achievement award, in recognition of his outstanding career and significant contributions to neurosurgery. He is a former professor and head of neurosurgery, examiner and chair of the Royal College of Physicians and Surgeons of Canada (RCPS) Examining Board in Neurosurgery and secretary and president of the Canadian Neurosurgical Society. Dr. Holness retired from Dal/QEII in 2009 and has been busy setting up a neurosurgical services unit at Cornwall Regional Hospital in Montego Bay, Jamaica, teaching and examining medical students and residents for the past six years. Dr. Holness received an honorary DSc from the University of the West Indies (UWI) in 2011.

'77

CARLA HEGGIE, BA, has set up her own business, Teal Creative Thinking, after 12 years with Classic Bookshops and 28 years working in policy and access and privacy with the government of Nova Scotia. The company, launched in January, 2016, is a consulting business specialising in privacy, policy, process and patient advocacy. Carla has also developed and will be teaching an online course called "The Culture of Privacy" at Dal's School of Information Management. Anyone wishing to contact Carla may send her an email at cheggie@tealcreativethinking. ca.

'78

DR. BRIAN A. RINEHART, DDS, CertPerio'90, has been re-elected for a second term as president of the Canadian Dental Regulatory Authority Federation (CDRAF). This organization represents all

Canadian dentists and is the

body of public protection. Dr. Rinehart is a dual specialist in periodontics and orthodontics. He practises both specialties full-time in Fredericton, N.B.

GORDON WILKINSON, BA,

MA'80, is returning to Ottawa after residing for 17 years in Vancouver. He was hired by the Bank of Canada as an economist in 1980, rose to senior economist in 1991, and retired in 2012 to pursue his interests in horticulture and music. He has been experimenting with nut trees on a property just outside of Ottawa, and in Nova Scotia.

1980s

'81

PAUL RADFORD, LLB, was appointed chair of the Nova Scotia Securities Commission in November, 2015. He served as vice-chair and a commissioner before that for 10 years. The position is a part-time position, and Paul continues his private practice

in commercial and corporate law. Paul's law firm, Coady Filliter, merged with Patterson Law on April 1, 2016.

'**8**5

DR. ROBERT W. ROBERTSON, MPA, has

been named a Fulbright Scholar by the United States Department of State, Bureau of Educational and Cultural Affairs, Council for International Exchange of Scholars (CIES). Dr. Robertson will work with the Faculty of Economics at the University of Ljubljana, Slovenia in developing workplace-relevant skill training, particularly using online education tools and techniques. As part of his new role, Dr. Robertson was the keynote speaker at the Global Universities in Distance Education conference in Madrid in June 2016.



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CLUMSY, OUR LADY PEACE THE SOUND OF, JANN ARDEN DARK HORSE, AMANDA MARSHALL SITTING ON TOP OF THE WORLD, AMANDA MARSHALL

'86

DR. MICHAEL BISHOP,

BSc, DDS'90, pursued a specialization in endodontics at the University of Michigan, graduating in 1996. Since then, he has maintained a full-time endodontic specialty practice in Fredericton, N.B. while also teaching clinical endodontics at Dalhousie on a part-time basis. Two of his children, Adam and Emily, are currently enrolled in Dal's Doctor of Dental Surgery program. Dr. Bishop recently expanded his interests into the restaurant industry, opening a Pita Pit franchise in downtown Halifax in January, 2016.

'88 TED VAUGHAN, BSc,

MPA'97, has retired as the director of universities and colleges for the province of Nova Scotia. He is now the chief administrative officer for the Atlantic School of Theology in Halifax.

'89

ROGER THOMPSON, BA, MA'94, has received a gold medal of appreciation from the chancellor of Kyung Hee University for 10 years of passionate teaching of civics, the ethics of Star Trek and other classes.

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FACULTY OF MANAGEMENT Rowe School of Business

1990s

'n

BLYE FRANK, PhD (Education), recently completed a five-year term as dean of the Faculty of Education at the University of British Columbia and was reappointed for a second term.

DR. JENINE ARAB

O'MALLEY, DDS'90, was the recipient of the 2015 Progress Club Women of Excellence Award in Wellness and Sport. She was recognized for her valuable professional and community accomplishments.

'91

PETER RUSSELL, MArch, has been appointed as dean of Delft University of Technology's Faculty of Architecture and the Built Environment, effective May 1, 2015. He is continuing on a

part-time basis as professor of computer supported planning in architecture (CAAD) at the RWTH Aachen University, where he served as dean of the Faculty of Architecture and chaired the Dean's Council. Russell is a partner at the architectural practice IP Arch GmbH and serves as vice-chairman of the German Architecture Dean's Council (DARL).

'9**?**

FRAN WERTMAN, MN, has retired from the Birth and Women's Health Center in Tucson, Ariz, She has been the centre's Clinical Director since 2007. The Birth and Women's Health Center is a free-standing birth centre with eight full-time certified nurse-midwifes providing women's health care and hospital birthing, with 550 births per year. Fran was honoured in 2015 by the American Association of Birth Centers (AABC) with the AABC Professional Award for dedication to practice. She has been blessed to be part of so many families' lives over the past 12 years.

'95

JUNE DIPCHAND, BSc, BEng'98, was recently promoted to partner at Skadden, Skadden, Arps, Slate, Meagher & Flom LLP and Affiliates, founded in 1948, a law firm based in New York City. With nearly 2,000 attorneys, it is one of the highest-grossing law firms in the world.

<u>'98</u>

ARNOLD CEBALLOS, LLB, has joined The Bank of Nova Scotia in Toronto as senior legal counsel, intellectual property, after more than 10 years with his own intellectual property law firm. He was also recently recognized in the sixth edition of the World Trademark Review's WTR 1000-The World's Leading Trademark Professionals.

TIMOTHY LINDSAY, BScK. married Rebecca Hauck on July 2, 2016 in Waco, Texas, Attending this special event were his parents, **ROBERT** (MSc'76) and DOROTHY LINSDAY (BA'75), brothers JASON (BComm'00) and PETER (BSc'03), and their families. Timothy received a PhD from Cape Town University in South Africa. He and Rebecca are living in Ypsilanti, Mich., where Timothy is employed at Eastern Michigan University.

'<u>9</u>9

ASHWIN KUTTY, BSc (Computer Science), was named one of Atlantic Canada's Top 50 CEOs on May 12, 2016 in Moncton, N.B. Kutty is president & CEO of WeUsThem Inc. From 2012 to 2013, Kutty served on the Council of the Association for European Education in Architecture (AEEA/EAAE). He is also a founding member of the newly-formed European architectural research network, ARENA.

EMILY LEE, BA, LLB'02, REBECCA TOTH, LLB'02, and partner Salima Alibhai recently launched ALT Recruitment Partners, a Toronto-based boutique legal recruitment firm. ALT focuses on the placement of lawyers into law firm and in-house counsel positions. Find out more at www.altrecruit.ca.

2000s

'[]1

SHAWNA HOYTE, Q.C., BSW, MSW'03, received a Distinguished Service Award from the Canadian Association of Social Workers in recognition of significant contributions made by the social work profession in support of building stronger communities and a more equitable Canada, For more about Shawna, visit www. casw-acts.ca/en/shawnahovte.

'በዖ

BRENDA HOGAN, MBA,

senior investment manager with Ontario Capital Growth Corporation, has been appointed co-chair of the Canadian Women in Private Equity committee. She is also a recipient of the 2015 Amethyst Award, which recognizes outstanding achievements by Ontario public servants. Brenda received the award in recognition of her work with the Ontario Capital Growth Corporation, which transformed the province's venture capital program from one that was reliant on tax credits to one driven by market-based returns.

'በ4

DAVE REAGE, MURP, has been named director of Halifax Transit. He first joined Halifax Transit in 2007 as the coordinator of project planning, after working on active transportation, transit and traffic planning with a Toronto-based consulting firm. Within four years of working with Halifax Transit, Dave advanced to become the manager of planning and scheduling, his previous role within the organization.

'09

CHRISTOPHER GUINAN,

CIBC Wood Gundy as an investment advisor, following five years in Ottawa working with the federal government.

2010s

LAURA WEEDEN, BEng (Civil), was nominated and selected as one of Oilweek's Rising Stars class of 2016. Laura has been working tirelessly to educate Quebec's energy regulators and public interest groups on both the technical and environmental dimensions of drilling and to establish a positive oil and gas presence in the province.

'14

LYLE QUINN, BA, was appointed to the Youth Project's board of directors during the organization's annual general meeting on June 16, 2016.

GEORGE WOODHOUSE, BA (French and Sociology), recently began work with Parks Canada in Halifax in the area of youth engagement.

'16 THERESA MCGUIRE. MREM. is a happy new graduate with a new publication in the June

edition of the national nursing journal, Canadian Nurse. The publication is about her Dal Master of Resource and **Environmental Management** (MREM) internship, in which she is working with kids and observing the health effects of nature therapy.

IN MEMORIAM

HELEN ELIZABETH (MUNRO) BEATTY, BA'38, Ottawa, Ont., on June 21, 2016

MARGARET ALICE (GRAHAM) BRACKETT, BA'41, Halifax, N.S., on July 28, 2016

MARGARET FLORENCE BARNARD, BA'42, Halifax, N.S., on March 20, 2016

LEWIS BENJAMIN WOOLNER, MD'42, LLD'01, Rochester, Minn., on June 13, 2016

FRANK EDWARD BARNSTEAD, BSc'43, Dartmouth, N.S., on March 19, 2016

HELEN MARGARET (MACKAY) BLAKELOCK, BSc'43, Oakville, Ont., on July 14.2016

JOHN ALLAN MACKAY, DDIP'43, Oxford, N.S., on May 7.2016

MARGUERITE REBECCA (GRAVES) PECK, BA'43, DED'44, Fredericton, N.B., on June 8 2016

CARROLL BURNELL GREENE, MD'44, Dunnville, Ont., on Aug. 5, 2016

CARL MAURICE LITTLE, LCMUS'44, BSc'45, DENGR'45, Courtenay, B.C., on June 2, 2016

DONALD THOMAS MATHESON, DENGR'44, BEng'47, Halifax, N.S., on July 15.2016

MARGARET INEZ (SMITH) SUNDERLAND, BA'44, Ottawa, Ont., on May 13, 2016

JOYCE CHRISTINE (NICHOLSON) TURNBULL, BA'45, Ottawa, Ont., on July 23.2016

JOSEPH PHILIP JAMES VAUGHAN, BEng'45, DEng'87, Halifax, N.S., on April 8, 2016

MORRIS REUBEN PERCHANOK, BSc'46, MD'50, Sarnia, Ont., on April 1, 2016

GEORGE HARVEY COOK, DDIP'47, MD'54, Truro, N.S., on April 2, 2016

GORDON HAYWARD DUNPHY, BEng'47, Bedford, N.S., on March 8, 2016

MARY DUFFUS (FARQUHAR) HAMILTON, BA'47, DEd'48, East Lawrencetown, N.S., on May 3, 2016

GERALD BERNARD BOYLAN, BEng'48, Halifax, N.S., on May 23, 2016

BANNING HENRY HARDIE, BComm'48, Ottawa, Ont., on May 16, 2016

DONALD ALEXANDER MACEACHERN, LLB'48, Windsor, Ont., on April 22, 2016

JOHN FREDERICK MORROW, DDIP'48, Halifax, N.S., on April 3, 2016

EDMUND ORMSBY ROGERS. LLB'48, Victoria, B.C., on July 1,2016

JOAN KATHERINE WALKER, BA'48, Halifax, N.S., on April 17, 2016

ROBERT DAVID WILLET, BA'48, Stittsville, Ont., on March 24, 2016

LORNE OTIS CLARKE, BA'49, LLB'51, LLD'86, Halifax, N.S., on May 21, 2016

JAMES AUBREY MCLEAN, BEng'49, Halifax, N.S., on July 22, 2016

RUTH LORRAINE (WILLIAMS) COLEMAN, BA'50, Dartmouth, N.S., on May 23, 2016

MAURICE EUGENE DELORY, BSc'50, MD'55, Bridgewater, N.S., on March 31, 2016

FERGUS ALEXANDER ADAIR FERGUSSON, BSc'50, MSc'52, Dartmouth, N.S., on July 11, 2016

KIRBY NASH KENT, DENGR'50, BEng'52, Kingston, Ont., on April 19, 2016

ABE JOE LEVENTHAL.

BComm'50, Halifax, N.S., on March 21, 2016

CHARLES OLER, DDS'50, on March 29, 2016

NORBERT ERNEST LAVIOLETTE, BEng'51, Ottawa, Ont., on March 11, 2016

LLOYD DAVID MOIR, BComm'52, Bobcaygeon, Ont., on May 22, 2016

ALLAN GARTSHORE GRAHAM, LLB'53, Sechelt, B.C., on July 23, 2016

EMERIC HOFSTADER, MD'53, Scarborough, Ont., on March 13, 2016

ELIZABETH WILSON (ROBERTSON) PAGE, BA'53, Edmonton, Alta., on April 7, 2016

JAMES FREDERICK HARRIGAN, MD'54, Madawaska, Maine, on March 9.2016

RALPH EMERSON HENNIGAR, BEng'54, LLB'61, Mahone Bay, N.S., on March 30, 2016

GEORGE GUY SLADE, BEng'54, Deer Lake, N.L., on May 27, 2016

THOMAS STANLEY SPARKES, FRC'54, Clarkes Beach, N.L., on May 8, 2016

ROY EVERETT FRASER, BEng'55, Mississauga, Ont., on March 12, 2016

OLIVER HARRIS MILLARD, MD'55, Halifax, N.S., on March 19, 2016

MERRILL ROBERT PALMETER, AGSY'55, Palmyra, N.Y., on May 3, 2016

ROBERT WILLIAM PENTZ, DDS'55, Halifax, N.S., on Aug. 17, 2016

COLLEEN ELIZABETH ASHWORTH, BA'56, BEd'67, Halifax, N.S., on June 29, 2016

DAL FALL 2016 41

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Janna Boutilier, Wickwire Bursary recipient

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ROBERT GORDON CRANDALL, MD'56, Rome, Italy, on July 1, 2016

W. G. CARLYLE PHILLIPS, BSc'56, MD'61, Halifax, N.S., on Aug. 6, 2016

RALPH DAVID CONNOR, BEng'57, MBA'72, Dartmouth, N.S., on April 5, 2016

DAVID WILLIAM GRUCHY, LLB'57, Halifax, N.S., on May 22, 2016

JOSEPH MICHAEL MACSWEEN, MD'57, MSc'70, Halifax, N.S., on April 23, 2016

CARL FATHERGILL PERRY, BSc'57, Yarmouth, N.S., on July 26, 2016

RITA PERRETT (GREIG) PORTER, BScN'57, Victoria, B.C., on July 13, 2016

GEORGE FRANCIS WALLACE INRIG, LLB'58, Picton, Ont., on May 21, 2016

MALCOLM MURRAY BRUCE, MD'59, Shelburne, N.S., on June 29, 2016

GEORGE MACDONALD CASSON, DDIP'59, Truro, N.S., on March 15, 2016

WILLIAM HART WHITE, BComm'59, Canning, N.S., on March 28, 2016

GLEN HENRY ARCHIBALD GELDERT, DENGR'60, BEng'62, Wolfville, N.S., on March 16, 2016

JOHN JAMES MCKIGGAN, MD'60, Halifax, N.S., on Aug. 6, 2016

HOWARD LLOYD OXNER, BComm'60, Halifax, N.S., on April 21, 2016

REGINALD HERBERT YABSLEY, MD'60, Halifax, N.S., on June 12, 2016

DOUGLAS BRIAN CHAPMAN, LLB'62, Bar Harbor, Maine, on July 19, 2016

PATRICIA FRANCES MACDEARMID, DTSN'63, BN'71, New Glasgow, N.S., on June 24, 2016 FREDERICK RUSSELL CHISHOLM, DPHRM'65, Aylesford, N.S., on May 29, 2016

NORA CATHERINE (BUCKLEY) CONNORS, BEd'65, Gloucester, Ont., May 22, 2016

JEAN ELEANOR SMITH, DNSA'65, Amherst, N.S., on Aug. 14, 2016

THOMAS WAYNE FERRIS, LLB'66, Prince Albert, Sask., on April 5, 2016

TERRANCE BAYNE MEISNER, DENGR'66, BEng'68, MEng'69, Alexandria, Va., on March 18, 2016

RICHARD HASTINGS-JAMES, BEng'67, Houston, Texas, on April 8, 2016

FRANCIS BERNARD WILLIAM KELLY, LLB'67, Halifax, N.S., on May 13, 2016

FRANKLYN DAN MEDJUCK, LLB'67, BComm'70, Halifax, N.S., on March 14, 2016

FREDERICK ROBERT SOPER, DENGR'67, BEng'70, Darlings Island, N.B., on July 16, 2016

PETER WILSON MCCARTHY, DENGR'68, BEng'71, on June 16, 2016

JOHN PHILIP THOMAS GRAHAM, BA'69, BSc'72, MD'79, PGM'80, Upper Tantallon, N.S., on June 17, 2016

RONALD FREDERICK HARPER, BSc'69, MBA'71, Gloucester, Ont., on Aug. 7, 2016

RONALD WAYNE ROSE, BComm'69, Rothesay, N.B., on June 19, 2016

ROGER MICHAEL JOSEPH FLINN, MD'71, Port Williams,

N.S., on March 31, 2016 WILFRED JOHN EDWARD GIRRIOR, DDIP'71, on March

JANICE ADELE (BLACK)

GORDON, DPH'71, Truro, N.S., on April 6, 2016

NANCY MARIE WEBSTER PINEO, DNSA'71, Kentville, N.S., on May 10, 2016 JAMES DOUGLAS ROBERTSON, BA'71, BEd'72, Halifax, N.S., on June 27, 2016

GEORGE HUDSON ANDREWS, MA'72, on March 18, 2016

DOROTHY MAE HILTON, BA'72, BEd'72, MEd'81, Halifax, N.S., on April 19, 2016

EDWARD LEE BLAXLAND, BSc'73, Malagash, N.S., on June 1, 2016

PERMOD KUMAR KAUSHAL, BEd'73, Richmond, B.C., on Aug. 8, 2016

JAMES B. LAMB, TECH'73, Berwick, N.S., on April 15, 2016

CHRISTINE LOUISE ROBB, DDH'73, MEd'96, Moncton, N.B., on March 13, 2016

GEOFFREY FAULKNER KEDDY, BSc'74, BEDS'78, BArch'79, Halifax, N.S., on June 6, 2016

HENRY A. R. LITZ, MD'74, Plaster Rock, N.B., on March 21, 2016

JANET ELIZABETH SERVANT, BA'74, BAHC'76, BEd'78, MLIS'89, Halifax, N.S., on June 25, 2016

RONA EVELYN (GARSON) TOBE, BA'74, MLS'76, Willowdale, Ont., May 26, 2016

NEVILLE JAMES COX GILFOY, BA'75, Dartmouth, N.S., on July 19, 2016

JOHN WALTER DOUGLAS HARGREAVES, MSc'75, Kingston, Ont., July 5, 2016

JEAN ELIZABETH GARTNER, BEd'76, Annapolis Royal, N.S., on March 16, 2016

BARBARA ARLENE (HAYDEN) EISENER, BSc'77, MD'81, Lunenburg, N.S., on April 5, 2016

DENNIS PATRICK PAUL HOLLAND, BA'77, LLB'80, LLM'06, Dartmouth, N.S., on April 29, 2016

KENNETH THOMAS LANGILLE, BEd'77, Yarmouth, N.S., on March 28, 2016 GARNET ROSS DOUGLAS, BSc'78, Nepean, Ont., on May 13, 2016

MICHAEL JOSEPH NOWLAN, BComm'79, New Glasgow, N.S., on July 2, 2016

JAMES MICHAEL DALE, BSc'81, MSc'84, Herring Cove, N.S., on Aug. 15, 2016

JOHN WILLIAM ASHE, BEng'82, New York, N.Y., on June 22, 2016

DWIGHT HAMILTON MACMINN, BSc'82, Moncton, N.B., on March 18, 2016

ARLENE ELIZABETH (MACFARLANE) MORRISON, BComm'82, Baddeck, N.S., on July 23, 2016

RAYMOND LAWRENCE CAHOON, BSc'83, Stellarton, N.S., on March 23, 2016

BARBARA HELEN ABBOTT, BSc'84, Lower Sackville, N.S., on June 23, 2016

GEORGE F FORSYTH, PhD'84, Wolfville, N.S., on July 23, 2016

RICHARD PAUL SANSOUCI, DDS'84, New Bedford, Mass., on May 6, 2016

RALPH GARNET STACEY, BPE'84, Cambridge, N.S., on Aug. 10, 2016

JANE ELIZABETH HOWLETT, BA'85, Saint John, N.B., on May 11, 2016

RONALD WHITNEY JAMES BAIRD, LLB'88, York, Ont., on March 22, 2016

JOHN DAVID NAUSE, PhD'88, Yarmouth, N.S., on July 18, 2016

ANDREW GORDON BUTLER, BA'89, Richmond Hill, Ont., on April 6, 2016

JAMES CLARENCE CAMPBELL, MEd'90, MSW'02, Summerside, P.E.I., on June 26, 2016

STEWART WAYNE NEUFELD, MSc'90, Kingston, Ont., on March 22, 2016

ELIZABETH PAUL, CCH'90, Membertou, N.S., on July 8, 2016 VICTORIA GAIL JELLINEK, BA'91, BAAMCN'98, Fredericton, N.B., on May 26, 2016

JULIE MCKENZIE, BComm'93, Cold Lake, Alta., on May 16, 2016

CLAIRE SVETLANA STOWE, BA'93, BEd'95, Dartmouth, N.S., on May 20, 2016

JULIE SHARON LONG, BSc'94, Edmonton, Alta., on March 17, 2016

KIRK ALLAN CLUETT, BComm'99, BScN'07, Bridgewater, N.S., on May 15, 2016

JANE ALISON STEPHEN, BSW'02, Halifax, N.S., on Aug. 11, 2016

RENEE ANNE BRIAND, BA'05, BScR'07, Hubley, N.S., on May 23, 2016

KIRSTY LEE ST. CLAIR BRUCE, BEDS'05, MARFP'07, Toronto, Ont., on April 20, 2016

ELIZABETH MEERA VARMA, BA'07, MA'11, Toronto, Ont., on May 20, 2016

KEVIN RICHARD HURLEY, BEng'09, Dartmouth, N.S., on July 25, 2016

NTORBEA ASAMOAH-ODEI, BScPH'15, Ghana, on Aug. 11, 2016

DAL FALL 2016

DAL DNA: PURPOSE-DRIVEN

Excellence in teaching and learning is a key priority at Dalhousie. It takes place in a variety of ways and venues, with the university committed to the continuous development of programs and classes that enhance the student experience. By Stefanie Wilson

1904

Gilbert Stairs (BA'03) succeeds as Dalhousie's first Rhodes Scholar.

1838

Dalhousie University offers its first instruction. The official timetable for the autumn of 1838 includes Latin, Greek, algebra, logic, mathematics, moral philosophy and natural philosophy.

1865

The Department of English, one of the oldest in Canada, is founded with the appointment of James de Mille as the first professor of rhetoric.

1879

A Department of Science is set up and includes Dr. David Honeyman, the first, but unpaid and part-time, professor of geology, paleontology and mineralogy. Geology continues to be a one-man operation for 75 years.

George Munro (BA1878)

chairs, in constitutional and international law.

launches the fourth of his

Professor Weldon accepts

the appointment and the

Faculty of Law is created.

2013 1883 Accou

Accounting professor Joan Conrod (BComm'77) becomes a 3M National Teaching Fellow, the only national cross-disciplinary recognition of excellence in university teaching in Canada.

2016

Dr. Matthew Schnurr, an associate professor in the Department of International Development Studies is one of five individuals across Canada to receive the 2016 Brightspace Innovation Award for Teaching and Learning, which recognizes innovative approaches that promote student-centered teaching and learning.

1968

The Department of Music is founded with an emphasis on music education and performance. The BMusEd (Applied, General) degree is granted.

1979

The Dalhousie Alumni Association Award of Excellence for Teaching is established and presented annually to the professor who, in the eyes of his or her students and peers, has displayed the qualities of superior teaching, enthusiasm for the subject and interest in the needs of students.

1998

The annual Dalhousie Conference on University Teaching and Learning is created to promote an ongoing exchange of information about innovative practices in post-secondary teaching and learning among the Dalhousie faculty and beyond.

2012

The Faculty of Dentistry is the first Canadian dental school to be honoured with the William J. Gies Award for Achievement (Academic Dental Institution) for exemplifying dedication to the highest standards of vision, innovation and achievement in dental education, research and leadership.





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