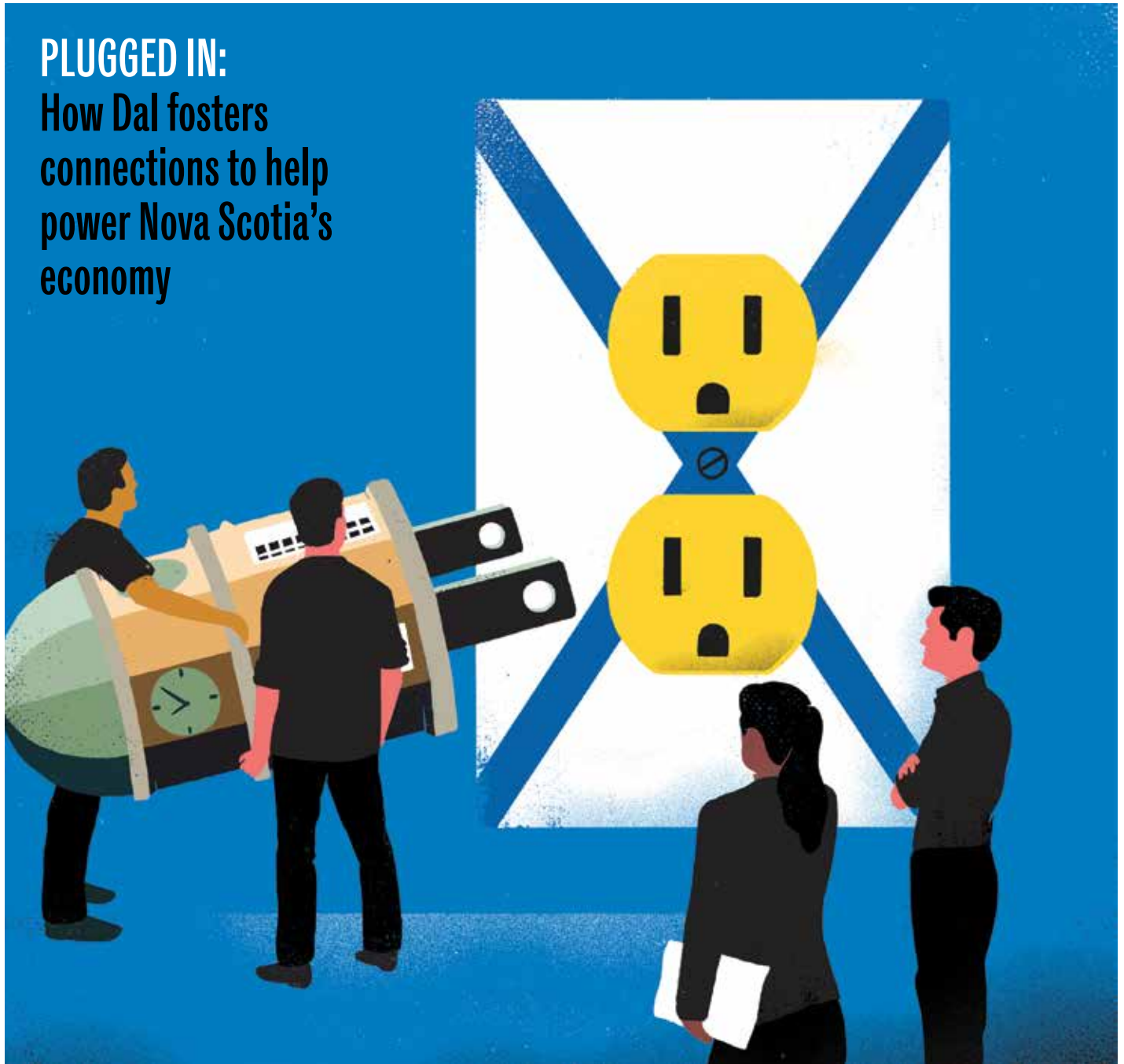


# DALMAGAZINE

WINTER 2016

**PLUGGED IN:**  
How Dal fosters  
connections to help  
power Nova Scotia's  
economy



THINKING OUR WAY TO GOOD HEALTH   STUDENT REFUGEES WELCOMED   TOP HONOURS FOR DAL SCHOLARS

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### USING YOUR HEAD

Shaun Boe's Dalhousie-based physiotherapy lab is focused on figuring out how our brains could help heal our bodies. By Dawn Morrison

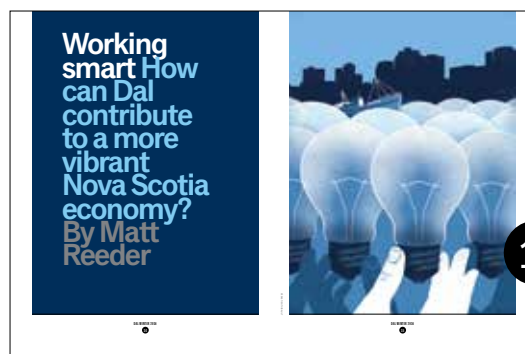
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# DALMAGAZINE



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## EDITORIAL

# MUST WINTER EQUAL DISCONTENT?

I'm usually not a winter hater. A winter grumbler? Yes, probably. But hater? Not usually. Still, the winter of 2015 nearly knocked the stuffing out of me, as one storm after another left my driveway piled high with the white stuff and our local sidewalks packed with ice. As Dr. Seuss might have rhymed, "It wasn't nice, that ice, not nice!" But as I considered winter 2016, I thought, "I don't want last year to ruin this year." And so I tried to think nice winter thoughts.

Turns out my strategy might be a winning one: a U.S. researcher studying attitudes of winter-loving Norwegians found that thinking and, importantly, sharing good thoughts about winter—"I love winter's soft light" or "It's so warm and cozy by the fire"—contributed to winter happiness.

It's not the only way what goes on inside our heads can make a difference in how we move through the world. On the pages that follow, you'll read about the work of Shaun Boe and other Dal researchers who are studying how training our brains can improve our physical health ("Using your head", p. 20). It's fascinating, important work with the potential to positively affect the lives of many.

In the meantime, I'm doing my bit for winter positivity. Isn't the light beautiful at this time of year?



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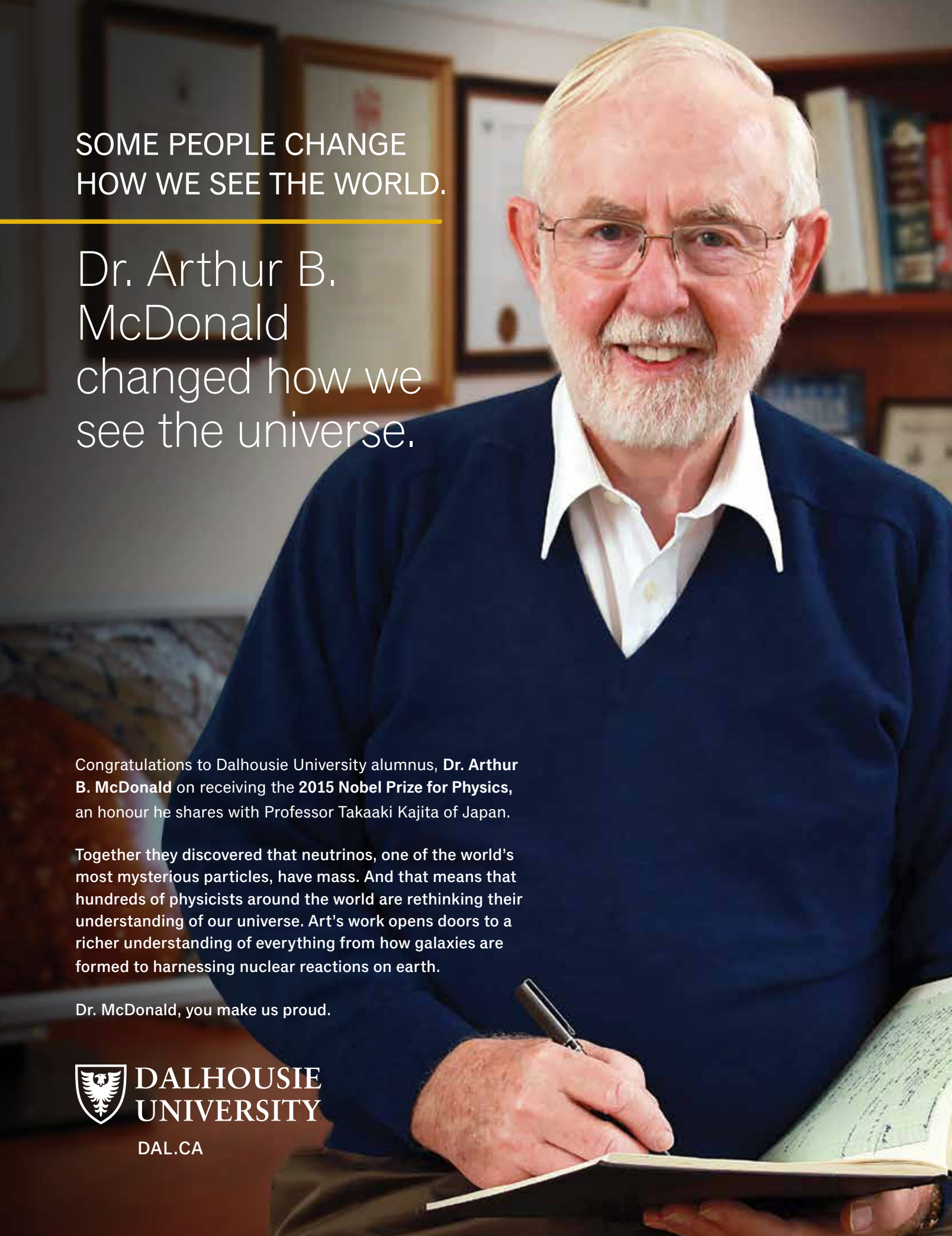
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SOME PEOPLE CHANGE  
HOW WE SEE THE WORLD.

---

Dr. Arthur B.  
McDonald  
changed how we  
see the universe.

Congratulations to Dalhousie University alumnus, **Dr. Arthur B. McDonald** on receiving the **2015 Nobel Prize for Physics**, an honour he shares with Professor Takaaki Kajita of Japan.

Together they discovered that neutrinos, one of the world's most mysterious particles, have mass. And that means that hundreds of physicists around the world are rethinking their understanding of our universe. Art's work opens doors to a richer understanding of everything from how galaxies are formed to harnessing nuclear reactions on earth.

Dr. McDonald, you make us proud.



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SMART WORDS

**“Most of the world’s problems will be solved when we have the capability to solve food crises around the world.”**

John Yool (BSc(Ag)'15), a Sudanese student who completed his bachelor's degree in Agricultural Economics at the Truro campus through the World University Service Canada Student Refugee Program and is now enrolled in Dal's Bachelor of Engineering program.



PG 4



PG 7



PG 10

From women of excellence to winning scientists and agricultural hall of famers, Dalhousie alumni and faculty are in the spotlight. Plus new buildings and welcoming student refugees.

## DAL NEWS

### EVENTS



The Atlantic Agricultural Hall of Fame 2015 inductees included two NSAC alumni: former Nova Scotia deputy minister of agriculture Richard Huggard (Class of '56, pictured second from right) and New Brunswick pork producer Stephen Moffett (Class of '72, pictured far right). Mervin Wiseman (far left) of Newfoundland and Dale Dewar (second from left) of Prince Edward Island were also inducted.

### JUST THE FACTS

## Royal Society welcomes 5 Dal scholars

Richard Devlin of the Schulich School of Law and Jeffrey Hutchings of the Department of Biology have been elected to the Royal Society of Canada (RSC), the country's National Academy of distinguished scholars, artists and scientists. Prof. Devlin is one of Canada's leading thinkers on legal theory, equality, jurisprudence, legal ethics and the regulation of the legal profession. Dr. Hutchings is world-renowned for his unique approach to researching the ecology and evolution of fish.

As well, three of Dal's outstanding researchers are part of the 2015 cohort joining the RSC's College of New Scholars, Artists and Scientists. Launched last year, the college is Canada's first national system of multidisciplinary recognition for scholars who have demonstrated a high level of achievement at an early stage of their career. Dal's latest members are Dr. Krista Kesselring (BA'94, MA'95) in the Department of History; Dr. Chike Jeffers in the Department of Philosophy (cross-appointed with Canadian Studies and International Development Studies) and Dr. Christine Chambers (BSc'96), jointly appointed to the Faculties of Medicine and Science. —Jane Doucet, Nikki Comeau and Ryan McNutt



### RESEARCH IN PROGRESS

## Nova Scotia's first Trudeau Fellowship

Jocelyn Downie, Schulich School of Law professor (cross-appointed in the Faculty of Medicine), is Nova Scotia's first recipient of a Trudeau Fellowship. The prestigious fellowships were established by the Pierre Elliott Trudeau Foundation in 2003 to support original initiatives and innovative projects in the social sciences and humanities that would not necessarily receive support through traditional funding mechanisms. Part of the foundation's mandate is to celebrate engagement in public issues that are important to Canadians. Prof. Downie will receive \$225,000 over three years to research law, policy and practice around end-of-life care in Canada. Over the course of the Trudeau Fellowship, she will bring together small teams of academics and practitioners from law, ethics and health care. Together they will wrestle with complex and controversial issues and propose changes to law, policy and practice, all the while with a focus on the ultimate goal of helping society care deeply and effectively for the dying.

—Jane Doucet



Prof. Jocelyn Downie

THE LIST

## WOMEN OF EXCELLENCE

Thirteen women with connections to Dalhousie were among the 19 honoured at 2015's Progress Women of Excellence Awards. Hosted by the Canadian Progress Club Halifax Cornwallis on Wednesday, November 19, the event celebrated inspirational women who play an important role in their communities. The awards banquet is also a fundraiser for Phoenix Youth Programs.

### DAL HONOUREES INCLUDED:

**Dr. Martha Crago**, Dalhousie's vice-president research, recognized in the Education and Research category.

**Dr. Michelle Adams**, School for Resource and Environmental Studies (SRES) associate professor, recognized in the Entrepreneur/Innovator category. Dr. Adams is an alumna, having earned her PhD from Dal in 2006.

**The Honourable Lena Metlege Diab** (MPA'87, LLB'90), Immigration Minister for Nova Scotia, in Management and the Professions.

**Karen Oldfield** (LLB'85), president and CEO of the Halifax Port Authority, in Management and the Professions.

Author **Carol Bruneau** (BA'77, MA'81), in

Arts and Culture.

**Heather Gibson** (BA'96), executive director of the Halifax Jazz Festival and of Jazz East, in Arts and Culture.

**Sandra Starratt** (BED'83, MEd'92), Halifax West High School's social studies and languages department head as well as student government adviser, in Education and Research.

**Jane Adams Ritcey** (BPE'71), president of Adams & Knickle Ltd. in Entrepreneur/Innovator.

**Dr. Jenine Arab O'Malley** (DDS '90), dentist at Halifax Dental Studio, in Health, Wellness and Sport.

**Kerry Copeland** (BSW'89), Kids' Run Club co-ordinator and Doctors Nova Scotia health promotion adviser, in Health, Wellness and Sport.



Dr. Martha Crago (LEFT) and Dr. Michelle Adams (RIGHT) were among Dal's honourees.

**Sara Wilson** (BA'99), professional golfer and owner of Metro Ladies Golf Inc., in Health, Wellness and Sport.

**Faten Alshazly** (BScCS'99), WeUsThem Inc. principal and chief creative officer, in

Communications and Public Affairs.

**Paula Sibley-Fox** (BA'00), director of strategic communications for Nova Scotia's RCMP, in Communications and Public Affairs. —Ryan McNutt and Miriam Breslow

## DAL NEWS



Winners at this year's Discovery Awards. Dal recipients include: Paul Gratzner (third from left), Axel Becke (fourth from left), Orlando Hung (third from right), Nick Nickerson (second from right).

### THE LIST

## Winning scientists

It was a big night for Dalhousie at the Discovery Awards. At the 13th edition of the annual event in November, Dalhousie researchers from the Faculties of Science and Medicine walked away with wins in three of the four major categories and celebrated another entrant into the province's Science Hall of Fame. Hosted by Halifax's Discovery Centre, the awards celebrate the brightest minds in Nova Scotia and honour contributions to science, technology and innovation.

**Dr. Axel Becke**, professor emeritus with the Department of Chemistry, was inducted into the Discovery Centre's Science Hall of Fame. Dr. Becke's life work advancing a computational method called the "density-functional theory" (DFT) of electronic structure has landed him international recognition and Canada's top science honour last year: the \$1-million Gerhard Herzberg Canada Gold Medal for Science and Engineering. Dr. Becke's DFT research has been cited over 100,000 times, and the theory is being used in the development of countless everyday products — from toothbrushes to iPhones.

The winner of this year's Innovation category was **DeCell Technologies**, conceived by Dr. Paul Gratzner, an associate professor in the School of

Biomedical Engineering and CEO and president of the company. The biotech company manufactures advanced, ready-to-use tissue products to treat chronic foot ulcers, which afflict roughly 25 per cent of all diabetic patients.

**Dr. Orlando Hung** (BScPH'97, MD'83, PGM'88) in the Department of Anesthesia, Pain Management & Perioperative Medicine was honoured as Professional of Distinction. Also a staff anesthesiologist at the QEII Health Sciences Centre, he plays a key role in health care across the Maritimes, having conducted research in airway management, clinical pharmacology and drug delivery systems for 26 years. Among his inventions is a light-guided intubation device (or "lightwand"), designed in partnership with Dalhousie's Innovation in Design Lab.

**Dr. Nick Nickerson**, Dalhousie Earth Sciences alumnus (PhD '14), was awarded the Emerging Professional prize. Dr. Nickerson is the chief scientist for Dartmouth-based green technology company Eosense. Equipment designed and built at the company under Dr. Nickerson's leadership is being used worldwide to monitor greenhouse gases and ground source leak detection on oil and gas sites.

—Corey Burris and Nikki Comeau



### RESEARCH

#### NURSING-LED RESEARCH:

Dalhousie's new Centre for Transformational Nursing and Health Research celebrated its opening on November 24. "Our mission at the centre is to have an impact locally, nationally and globally," says Director Gail Tomblin Murphy. "We're launching the centre so we can build on our existing partnerships, work on larger collaborative projects, and ultimately do more to improve patient care and to influence innovation in health policy." The centre is the first nursing-led research centre in Atlantic Canada. Its research will focus on four key areas: the health needs of people; health workforce and health systems planning; marginalized populations and health equity; and knowledge translation. Researchers with Dalhousie's School of Nursing have \$14 million in funding for a wide range of projects. "It will give Dalhousie a stronger identity and will catapult us into the top five nursing schools in the country," says researcher Dr. Marsha Campbell-Yeo. —Kathryn Morse

**WATER ETHICS:** Dr. Jeremy Schmidt, a recent Dalhousie Banting Postdoctoral Fellow in the Department of Sociology and Social Anthropology and one of the leading scholars in the emerging field of water ethics, was awarded the Social Sciences and Humanities Research Council of Canada's Talent Award at the council's Impact Awards in November. It is awarded based on academic excellence, talent for research and knowledge mobilization, and potential for future leadership within or outside the academic sector. —Ryan McNutt



WHY I DO IT

## FOR THE RECORD

**NAME:** Michael Moosberger

**POSITION/DEPARTMENT:** University Archivist (Libraries)

**HIS FOCUS:** Dalhousie's archivist Michael Moosberger also serves as associate university librarian for research and scholarly communication and heads the Geographical Information Sciences Centre. His particular passion is the archivist's role, in which he's continually building a collection of documents, images and other materials that support teaching and research at Dalhousie—and which contribute to the historical record of both the university and the province. "You build relationships across the gamut of Nova Scotia society. That's what makes the job as exciting and interesting as it is," says Moosberger.

**HIGHLIGHTS:** Moosberger cites the increasing accessibility of Dal's archives among his proudest achievements. With over 167,000 searchable descriptions and digital objects now available in the Access to Memory (AtoM) database, "people don't need to see the original item—they can access the material online." Moosberger expects the digital collection to include close to 500,000 items by the time Dal celebrates its 200th anniversary in 2018, a milestone for which he's also exploring potential projects like an oral history program and an illustrated history.

**WHY I DO IT:** Moosberger's love of history has only grown as his work has evolved beyond looking into the past toward a more proactive reimagining of the archivist's role. He's collaborating with researchers to ensure current records are preserved for future generations—archiving on the "front end of records creation." Of his 15-year career at Dalhousie, Moosberger says he's grateful and excited to be part of a culture of big ideas, new and old. "If you're going to be an archivist in Canada, working in an academic archive is the best position you could conceivably get into," he says.

—Matthew Semansky



"You build relationships across the gamut of Nova Scotia society. That's what makes the job as exciting and interesting as it is," says Moosberger.

## DAL NEWS

The new Collaborative Health Education Building will be home to Dal's 3,700 Medicine, Dentistry and Health Professions students.



### ON CAMPUS

## New building heralds health-care collaboration

Nova Scotia Premier Stephen McNeil joined Dalhousie President Richard Florizone and others in December to celebrate the opening of a transformative new health education facility at Dal—one that promises to improve the state of patient care in Atlantic Canada by boosting opportunities for collaborative learning and research across the health sciences. The \$38.5-million Collaborative Health Education Building (CHEB) will enable the university's 3,700 Medicine, Dentistry and Health Professions students to come together for an integrated learning experience designed to foster greater inter-professional collaboration.

Premier McNeil heralded the opening of the CHEB—made possible in part by \$10 million in provincial funding—as a step forward for health education and care in the province. Dr. Florizone thanked the province and other donors—including the McCain Foundation and the Windsor Foundation—for their generosity, vision and support in making the project a reality.

The five-storey, 117,000-square foot facility is located at the corner of University Avenue and Summer Street. CHEB is packed with potential: the second floor features a mix of classrooms and seminar spaces where students from Dal's many different schools and departments can come together to work in teams in a way they might on the job. The building's third floor boasts several state-of-the-art clinical skills and simulation labs designed to mimic realistic homecare, rehabilitation and hospital settings. Wired throughout with the latest IT and remote-broadcasting technology, CHEB expands Dal's capacity for interactive learning and research in the health fields. —Matt Reeder

### COMMUNITY CONNECTION

## Welcoming student refugees

The Dalhousie Student Refugee Fund (DalSRF) raised over \$30,000, with the university matching every dollar contributed to the campaign. The goal of the fund is to increase support for student refugees in 2016.

Since 1981, Dalhousie has sponsored over 50 students through its partnership with World University Service Canada (WUSC). "Students come from refugee camps where Canadian aid workers and their affiliates have identified them as having sufficient ability and academic preparation to succeed in Canadian universities; the process is highly competitive," explains Dr. Theresa Ulicki, assistant professor in International Development Studies and faculty advisor for Dalhousie's WUSC Student Refugee Sponsorship Program. "During the past decade, most of the students we have sponsored have been Somali and South Sudanese. However, this year we also sponsored one student from Syria."

Dalhousie has a long history of providing refugees with services that help them acclimatize to their new community and ease the overwhelming pressure that comes with relocating to a new country.

The Dalhousie Student Union

and Dalhousie Faculty Association contribute to current student refugee placements by collecting a levy from their members that supports WUSC placements at Dal. The Faculty of Dentistry provides dental care to approximately 60 refugees annually, free of charge. Students in the Dentistry program have also sponsored a Syrian refugee family.

The Faculty of Medicine, in partnership with Capital Health and the Immigrant Services Association of Nova Scotia (ISANS), provides free medical services to refugees. The Schulich School of Law collaborates with ISANS to offer a pro-bono legal information clinic to refugees that focuses on basic social legal rights, including access to education for children of refugee families and equal wages. The clinic also assists refugees with making one-year window applications.

Many universities across the country have answered WUSC's call-to-action to increase support for student refugees. In a memo sent out to the Dalhousie community, President Richard Florizone said, "I am inspired by our community's responsiveness to provide assistance to refugees fleeing conflict in their home countries, and I am committed to ensuring that Dalhousie continues to play a meaningful and sustainable role in addressing the global refugee crisis."

—Lindsay Dowling



The Dalhousie Student Refugee Fund exceeded its fundraising goal by more than \$6000. The group used Dal's fundraising platform [projectDal.ca](http://projectDal.ca) in its efforts.

INNOVATOR

## KEVIN QUIGLEY

DIRECTOR, MACEACHEN INSTITUTE  
FOR PUBLIC POLICY & GOVERNANCE

**INNOVATION:** Leads the MacEachen Institute, which is funded by a trust commemorating political legend and Cape Breton native Allan J. MacEachen. The newly established centre will unite academics, public servants and civic leaders with an interest in public policy to share research and turn their ideas into meaningful policy changes.

**FOUNDATION:** Dr. Quigley, an associate professor at Dal's School of Public Administration, has worked in the Ontario Public Service and earned a PhD from Queen's University in Belfast. Experienced and connected in both the academic and public service sectors, Dr. Quigley is ideally positioned to lead an institute that bridges theory and practice.

**INSPIRATION:** When policy researchers in academia are unable to put their work in front of public service practitioners, opportunities are lost on both sides. Dr. Quigley's vision for the MacEachen Institute is to develop mechanisms—and a physical space—for these connections to be made.

**IN HIS WORDS:** "We're not just here to do research in the abstract. We're trying to develop thoughtful pieces around how to make the world better. If we're successful, the MacEachen Institute will be known as a hub of leading public policy research with impact in the Atlantic region and right across Canada."

**WHY IT MATTERS** Public policy is about more than rules and regulations, says Dr. Quigley—it's about the values and identity of society. As a home for studying public policy, the MacEachen Institute is a place to explore those values and inspire greater participation in the democratic process. Dr. Quigley believes young people in particular will be energized by the institute's focus on practical policy results and hopes to engage them in its work.

—Matt Semansky



**"We're not just here to do research  
in the abstract."**



## DAL NEWS

### NOTES



An \$8-million gift from Dr. Margaret McCain and her late husband Dr. Wallace McCain, made the Centre possible.

### Wallace McCain Learning Centre opens

Dal's newest student space was a flurry of activity in mid-October as students, faculty, staff and special guests celebrated the official opening of the Wallace McCain Learning Commons, a brand new 13,600 square foot space connected to the Life Sciences Centre (LSC).

The space hosts the Science Academic Resource Centre for peer-to-peer support, as well as office hours for science liaison librarians and features group study rooms, collaborative workspaces, computer workstations and Dalhousie Libraries resources.

Designed by Harvey Architecture with Richard White as lead architect, it is bright, spacious and comfortable. It's also a LEED Gold candidate,

featuring a partial green roof accessible from the lawn next to the Henry Hicks Building, LED lighting throughout (a first for Dalhousie), and an ultra-efficient system for heating and cooling. Its eye-catching copper exterior—which will eventually change from its bright penny colour to a green patina—also offers a new focal point for entering campus from Coburg Road.

None of this would have been possible without the generous support of Dr. Margaret McCain and her late husband, Dr. Wallace McCain. Their \$8-million donation to the university, announced shortly after Wallace's passing in 2011, funded the development and construction of the new facility. "It was because Wallace recognized, as I do and as I feel this country does, that Dalhousie is one of the top institutions of higher learning in

Canada, and we wanted to be part of keeping that reputation of excellence," said Dr. McCain.

—Ryan McNutt

### Promoting diversity in health care

When it comes to finding your way into a career, mentors matter. "As a young Black woman, when I see a Black female physician, it feels like they are my role model. I want others to see the same in me," says Leah Jones, a second-year medical student at Dalhousie.

Recently, Dalhousie and the Johnson Scholarship Foundation established a new partnership to encourage and support Aboriginal and African Nova Scotian students in considering careers in health care. Two Dalhousie programs—Promoting Leadership in Health for African Nova Scotians (PLANS)

and the Aboriginal Health Sciences Initiative (AHSI)—will have the opportunity to significantly extend their reach thanks to the foundation's generosity.

The Johnson Foundation, which aims to improve access to education for under-represented groups, has committed to matching all donor gifts to PLANS and AHSI up to \$1 million. "We're very excited about partnering with Dalhousie on this important project," says Malcolm Macleod, the foundation's president. "The additional scholarships and expanded support mechanisms will improve access to education and build capacity in these underrepresented groups, and ultimately strengthen the health-care system."

Jones, who served as a mentor to junior and senior high students when

she was an undergraduate student, says programs like these will help support and encourage students like her to enter the health professions.

—Elizabeth Thompson

### Spay it forward

Meet Taylor Jacobs and Lindsay Russell, two Vet Tech students at Dalhousie's Truro Agricultural Campus who have developed a crowdfunding project to assist Cumberland Colchester's feral cat population.

Through the Vet Tech program, a number of the region's many homeless cats are spayed or neutered and provided with veterinary medical treatment and preventative health care. Still, students wanted to reach a greater number of cats per year and so launched the 300 Felines project. The project is a student-led, extra-curricular, community-service based initiative launched on [projectDal.ca](http://projectDal.ca). The group raised \$8,475. Through the 300 Felines campaign, students hope to inspire others to "spay it forward," encouraging others to take positive action towards addressing the cat overpopulation crisis. —Stephanie Rogers



Medical student Leah Jones



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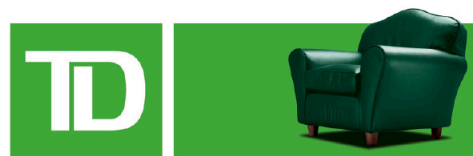
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# BUSINESS-MINDED



Dalhousie is Atlantic Canada's main hub for private sector-linked research and innovation, accounting for 98 per cent of industry-sponsored university research in Nova Scotia. Here's how Dal sparks innovation through its robust network of partnerships. By Matt Reeder.



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"THIS IS EXCITING FOR THE AG INDUSTRY BECAUSE THERE ARE A LOT OF NEW POTENTIAL AVENUES FOR BUSINESS CREATION AND LEVERAGING SOME OF OUR ASSETS IN THE REGION," SAYS CULTIV8 COORDINATOR JOLENE MACEACHERN.

---

## SERENDIPITY IN THE SANDBOX



### 1 Cultivating solutions

Can horticultural waste be modified and used to feed bees over the winter? Is there a way to make money off of lamb hides? Nova Scotia's agriculture industry hopes Dal students can shed some light on these and other questions through Cultiv8, one of three provincially supported "sandbox" spaces hosted by the university to bring students, mentors and business leaders together to collaborate on innovative business ideas. Students explore ideas in a weekly gathering, at Startup Weekends, and during related events with partners at Acadia University and Perennia, a N.S. government-owned agri-food and bio-resource firm.

### 2 Shifting keys

Eleven teams converged on Dal's ShiftKey Labs sandbox last September for a two-day "hackathon"—essentially, a computer coding competition—where they were asked to create an application based on data collected by Halifax's municipal government on households using solar hot-water systems. Two researchers from Dal's Institute for Big Data teamed up with a Dal engineering alumnus to create a web-based app called Sol-Ops that monitors household behaviour and provides simple feedback on ways to improve efficiency. Judges were impressed and sent the winning team along to a demo event at the Halifax Central Library where they were crowned the victors and awarded \$6,000 to further develop their app.

### 3 Engineering new ideas

"If you guys build that, we will buy it tomorrow." That's how people reacted to Team Tilt's innovative reimagining of the humble household compost bin at a Dal open-house event last spring. A three-person team from Management, Engineering and NSCAD University's design program created the prototype for the receptacle—complete with dishwasher-safe reusable liners—during an inaugural six-week boot camp on product development hosted by the Faculty of Engineering's IDEA Innovation sandbox last spring. The sandbox also offers workshops and a pre-incubation space for researchers working on potential spinout companies.

## ENGAGING THE PRIVATE SECTOR

Dal's success in attracting private-sector funding can be attributed in part to the university's Industry Liaison and Innovation (ILI) office, which helps facilitate the transfer of knowledge between researchers and industry partners with the aim of fostering innovation and

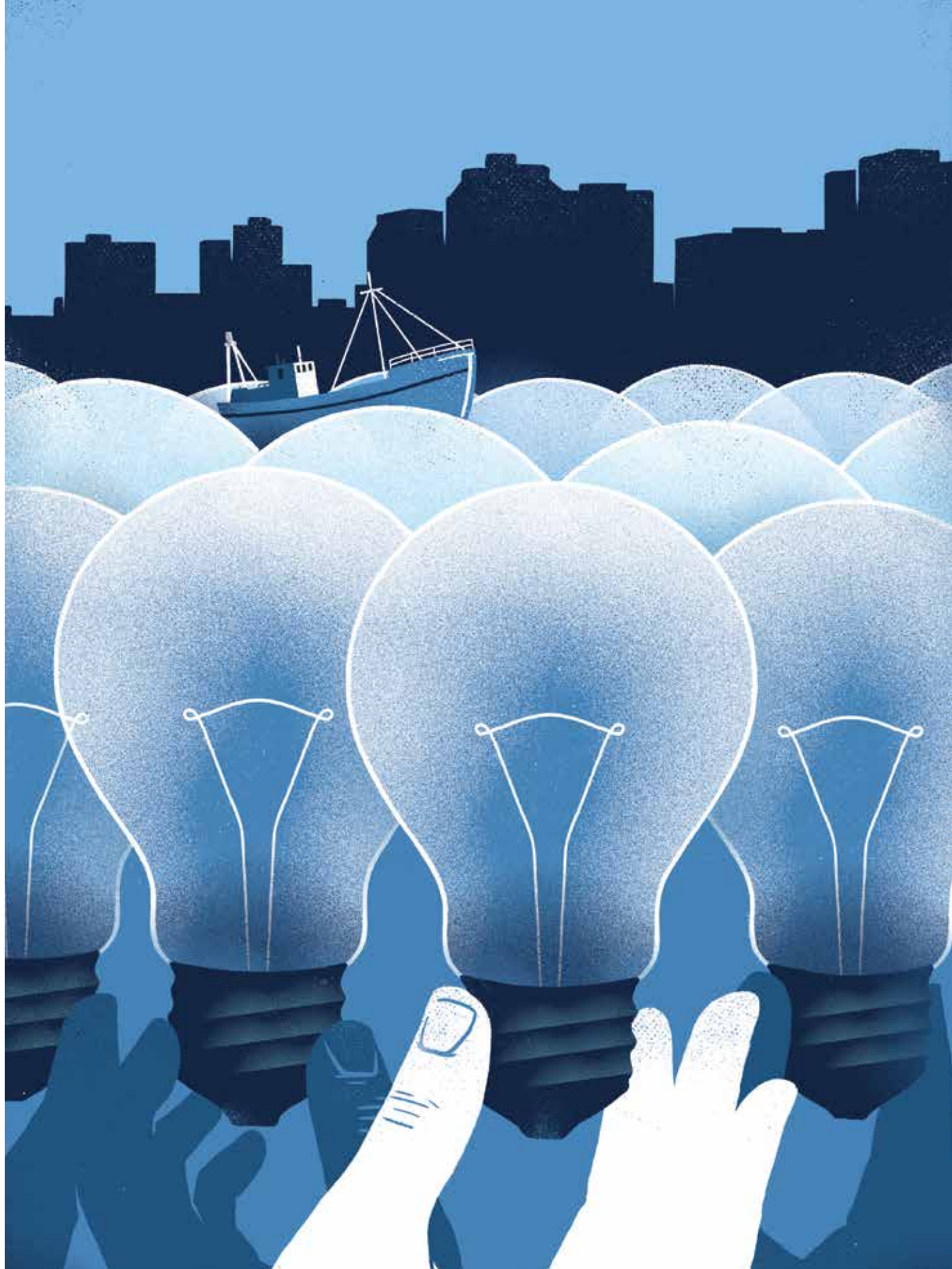
economic impact. In addition to engaging with businesses to meet their research needs, ILI assists Dal researchers in transferring technology and creating spin-out ventures and startup companies. ILI's mission has gained urgency in light of the One Nova Scotia Coalition's goal of

doubling annual research funding in the province. "The only way to make that quantum jump is by doing more research within the private sector," says Stephen Hartlen (BComm'87), executive director with ILI and Dal's assistant vice-president of industry relations.

TEAMS AT THE IDEA SANDBOX BOOT CAMP WOWED ATTENDEES WITH PRODUCTS SUCH AS BUOYANT SWIMMING SHIRTS AND A HIGH-TECH RIVER TURBINE. "THEY'RE NOW PRIMED. THEY'VE GONE THROUGH THE WHOLE PROCESS," SAYS DIRECTOR CLIF JOHNSON.

# Working smart How can Dal contribute to a more vibrant Nova Scotia economy? By Matt Reeder





# The countdown is on for the members of ShipTime,

one of the five hastily arranged teams here at Hackamarine 2015—a student-led, weekend-long event designed to bring Dal students from various faculties together to tackle problems in the ocean and marine-technology field. In just over an hour, Jesse David, an ocean engineering student, and his three team members will pitch their freshly hatched business idea to a panel of judges. Their goal: to snag \$2,500 in prize money to put towards further exploring their concept.

Knowing that Dalhousie President Richard Florizone—who has made a commitment to investing in just this sort of entrepreneurial initiative at Dalhousie as a way of boosting the university's contribution to the regional economy—will be in attendance during their pitch has upped the stakes. David and his team decide a practice round is in order and start their slideshow. They immediately encounter a problem, quickly regroup and carry on.

There's a lot about ShipTime that's still rough around the edges and David and the others are not afraid to admit it. Consider that this diverse crew of students from Oceanography, Engineering, Management and Philosophy first formed this group two days ago, though, and their progress seems impressive. The team has rallied around a problem of concern to Dal and other institutions conducting oceans research: the dearth of advanced research vessels available for ocean researchers in North America. To help fill that gap, they are exploring the idea of creating an online brokerage to help connect ocean experts with large-scale commercial ship owners who might be willing to rent out their vessels for research use.

It's the kind of disruptive business idea that might just work. And without Hackamarine, the brainchild of international student Justin Javorek, the members of ShipTime and the four other teams created here may never have crossed paths in the first place. This gathering is one of many like it that have popped up at Dal recently, all aimed at fostering an experiential learning environment for students interested in entrepreneurship and business creation from all faculties.

## FOSTERING STARTUPS

Gathered loosely together under the umbrella of the Norman Newman Centre for Entrepreneurship's (NNCE) Launch Dal programming, these initiatives range from cutting-edge classes to extracurricular activities such as Startup Weekends, Launch and Learns, business-model competitions and Dal's very own eight-week startup accelerator. "Everything we do is geared toward bringing motivated people from different disciplines together," says Mary Kilfoil (PhD'98), who along with fellow Dal professor Ed Leach (BComm'72) has been instrumental in overhauling the way entrepreneurship is taught at the university in recent years.

By enabling the cross-pollination of ideas among students from different faculties, facilitating valuable mentorships with members of the local startup community and encouraging the use of the so-called "lean" approach to business-model development, the programming developed by Dr. Kilfoil and Dr. Leach bears many of the same hallmarks you're likely to find at universities in Silicon Valley and other startup hubs. That's not by chance. Prior to approaching faculty deans in the summer of 2012 about launching a cross-faculty course on accelerated business creation called Starting Lean, Dr. Kilfoil worked with a cross-country team, funded by the Social Sciences and Humanities Research Council of Canada, to investigate how Canada can do a better job at leveraging research out of its post-secondary institutions to help boost economic growth. Encouraging more student-led entrepreneurship ended up being the focus of her research and has informed her efforts to move the university's programming away from the single-faculty, book/midterm/exam model of years past and into the experiential, cross-faculty style that had proven so successful at creating an entrepreneurial culture and unlocking economic potential at other universities around the world.

“A lot of people would say, ‘Yes, but Mary, that’s Silicon Valley. That’s MIT and Boston. We could never have that here,’” Dr. Kilfoil remembers being told at the time. “But I feel that yes, we can have our own version of that here, and I feel collectively we’re making a dent in the universe.”

It helps to have a university administration committed to that same vision. The *Now or Never* report released in early 2014 by the One Nova Scotia Coalition underscored the importance of initiatives such as these in helping build a more sustainable economic future for Nova Scotia. In a speech to the Halifax Chamber of Commerce in the fall of 2014, President Florizone—an MIT graduate himself—outlined Dalhousie’s emerging game plan for helping expand the university’s contribution to Nova Scotia’s long-struggling economy. Dr. Florizone ended his speech with a challenge to the business leaders in attendance: “Dal is committed to unleashing this province’s potential. Are you willing to work together with us to do that? Because we can’t do this alone.”

Indeed, community partnerships have been integral to the early success of NNCE’s Launch Dal and similar initiatives underway at the university and will be even more essential in the days ahead, says Matt Hebb, Dal’s assistant vice-president of government relations. “We want to scale relatively quickly at the front end in terms of generating activity in this space, and we are going to need more than just the Dal community to do that,” he says. That means bringing in mentors and partners to help run activities and support student enterprises. “We see example after example of how that generates a rich project environment and great ideas,” he says.

## FROM ZERO TO 16

Take Analyze Re, for instance. The Halifax-based startup emerged from the inaugural Starting Lean class back in the fall of 2012 and within the span of three short years has become one of the most promising companies developing big-data technology to improve the reinsurance business—a growing global industry worth close to \$500 billion. The company currently employs 16 people out of its office in west-end Halifax and plans to open offices in financial centres around the world in the coming months and years. It also counts Nephila Capital, a Bermuda-based investment firm with \$10 billion in capital under management, as one of its customers.

Oliver Baltzer, the company’s chief technology officer and one of its three co-founders, says if it weren’t for the mentors they met during Starting Lean he suspects his team wouldn’t have gotten very far with their business idea. “None of us had startup experience before and we didn’t know where to begin,” explains Dr. Baltzer, who graduated with a PhD in computer science from Dal. “What it really brought us was a connection to the community and some rigour around how we should start thinking about [our project].”

About 50 mentors from the local business community are now involved in the course and bring real-world insight to the learning experience. They encourage teams to refine their business ideas by asking the right questions and open up their Rolodexes to connect students with the right people in the community.

Baltzer and his Analyze Re teammates managed to parlay their

# Building a stronger Nova Scotia

The One Nova Scotia Coalition wants more Nova Scotian students to take part in the kinds of experiential learning opportunities described on these pages. In fact, it believes all students in the province should have the opportunity to do so as part of their degree program. That’s one of the many takeaways from the coalition’s Collaborative Action Plan, released in November—and just one of many ways that Dal is enhancing its contribution to the province. Dal’s list of contributions to Nova Scotia includes curricular and extracurricular education, stimulating startups, assisting existing industry, building research excellence and creating new knowledge for cultural and social understanding.

Dalhousie Vice-President Research Martha Crago was one of the One Nova Scotia Coalition’s 15 members, alongside the leaders of the province’s three political parties and several other leaders from the public and private sectors. She says that leveraging Dalhousie’s research expertise will be key to achieving the action plan’s goals.

“As the region’s largest research university, we’re looking at building ecosystems around Dalhousie’s research strengths,” says Dr. Crago. “We aim to be a national and international leader in our priority and emerging research areas, and we’re a strong advocate for utilizing the university’s institutional capacities to address the province’s economic, social and cultural development needs.”

Dalhousie President Richard Florizone says it is essential that what happens in Dal classrooms and labs ultimately benefits our city, our province, our country and our world. “Inspiring our students, connecting them with employers and improving the economy, quality of life and culture in our region is key,” he says. “We all have a stake in improving the Nova Scotia economy.” —Ryan McNutt

“Can we help people fail quickly, cheaply and constructively so that it becomes a step in an evolution, not a mark of dishonour?”

“We want to launch a student entrepreneurship movement.”

“One of the reasons I keep SimplyCast in Nova Scotia is because of the great talent that Dalhousie brings.”

“Dal is committed to unleashing this province’s potential.”





new connections and pitching skills into a stint at Launch 36, a New Brunswick-based six-month startup accelerator that helped them get business ready. From there they joined Halifax-based startup house Volta Labs, where they refined their investment pitch further to land a \$1.4-million financing round from Innovacorp, the Business Development Bank of Canada and Rho Canada Ventures in the fall of 2013. The company has since hired six additional Dal grads.

## BUILDING ON CO-OP SUCCESS

Of course, encouraging individuals to build growth-ready companies from scratch isn't the only way Dal creates value for Nova Scotia's economy. About 1,775 students secured co-op work terms in 2014, many of them with companies in the province. President Florizone has said he would like to double or triple the number of co-op positions available in the province.

Saeed El-Darahali, president and CEO of Dartmouth, N.S.-based marketing startup SimplyCast, remembers being a new grad looking for work and being hit with the realization that most employers were seeking someone with at least three to five years of work experience. Now, El-Darahali gives back by bringing young people with no experience into his company through co-op terms, internships and straight hiring.

"One of the reasons I keep SimplyCast in Nova Scotia is because of the great talent that Dalhousie brings," he says. "Some of our best and brightest at SimplyCast actually come from Dal and without the constant graduation of great talent, we wouldn't be able to sustain the business that we have." El-Darahali, who is also a member of the One Nova Scotia Coalition, says both of his six-year-old company's chief technology officers so far—including its current one, Ryan Ernst—are Dal grads. More than half of his 45 or so employees come from Dal.

Ultra Electronics Maritime Systems employs about 150 people out of its Dartmouth, N.S.-based facilities and prides itself on providing a rich and rewarding co-op experience that draws students back again and again. "A number of students have come back for two or three work terms and then that's transitioned into graduate employment," says Paul Reeves, head of HR at the company, which designs, develops and manufactures undersea surveillance and underground communications tools that are sold to navies and other organizations around the globe. He says many of the company's engineers have come from Dal.

## FROM THE CLASSROOM TO THE REAL WORLD

Co-op is an important way Dalhousie has enabled its students to work on real-world problems and make an impact in the community. Another way is by expanding class projects outside of the classroom. All second-year MBA students in the Rowe School of Business now take part in an eight-month capstone project called Make a Difference (MAD), which partners five-person student teams with N.S. firms, NGOs and governments looking to resolve issues of strategic importance. Jay McNeil, who graduated from Dal with an MBA last spring, was part of a

student team that worked on a MAD project for PolyCello, a nearly 60-year-old Amherst, N.S.-based packaging manufacturer with more than 350 employees in N.S. and Bellville, Ont. The company supplies packaging to a broad range of industries across North America, including many multi-billion-dollar global giants. "They are a perfect example of the type of company that Nova Scotia's economy needs to do well," says McNeil, whose team provided PolyCello with a fully-fledged implementation plan for expanding into the fresh-produce market.

Management Without Borders (MWB) is another experiential project-based initiative at Dal. It's offered as a four-month graduate course out of the Faculty of Management and pairs teams of students from many backgrounds with organizations across Nova Scotia. Rather than partnering with higher-revenue generating businesses, though, teams in MWB are often matched with small businesses, non-profits or municipal governments. "While we're reviewing a proposal from partnering organizations, we're generally looking at those that could not easily access resources and expertise which might allow the organization to better navigate the challenges and opportunities before them," says Jenny Baechler (BSc'00), course coordinator for MWB. In 2014, for instance, the group representing lobster harvesters in Cape Breton wanted help in understanding why there was so little local interest in local lobster. "The work of the students produced some very actionable outcomes and as a result, last spring the organization launched a new website to promote the lobster industry," says Baechler.

## TURNING FAILURE INTO FUEL FOR SUCCESS

Not every community project, co-op term or entrepreneurial enterprise that emerges from Dal ends up a resounding success. Indeed, those failures are just as essential an ingredient to progress as the successes, says Hebb. "There are a lot of failures along the way. The question is can we help people [fail] quickly and cheaply and constructively so that it becomes a step in an evolution as opposed to a mark of dishonour?"

Back at Hackamarine, Javorek—the main organizer—knows there is room for further evolution in the event. He'd like to have more time, more people and a better framework in place for the next student-led event like this. The informatics and entrepreneurship student wants to ensure subsequent generations of students have something to build on. "We want to launch a movement within the student grassroots," he says. "Success for us is just for people to know what entrepreneurship is here. To know that it is a choice."

It's fair to say the crew behind ShipTime will leave Hackamarine with just that in mind. Following five-minute pitches from each of the teams, they've just been crowned the victors by a team of judges that includes the CEO of Innovacorp, an early-stage venture capital organization, and the executive director for ocean-sciences group MEOPAR. How busy they are with their daily lives in the days and weeks ahead will likely determine whether or not they'll actually pursue their idea beyond this weekend, but at least they've been given a taste of entrepreneurship's possibilities.

*Interested in Dalhousie's contributions to strengthening Nova Scotia's agricultural sector? See "Business-minded," p. 12 of this issue and "From Field to Fork" in our Fall 2015 issue, available online at [alumni.dal.ca/stay-informed/dalhousie-magazine/](http://alumni.dal.ca/stay-informed/dalhousie-magazine/)*

# Using your head



Shaun Boe's Dalhousie-based physiotherapy lab is focused on figuring out how our brains could help heal our bodies.  
By Dawn Morrison, Photos by Danny Abriel





Christopher Friesen is adjusting a black EEG (electroencephalography) cap on a research participant named Emily Patrick. The second-year master's student applies a saline gel to the cap sensors in preparation for the experiment. "It's dripping!" laughs Patrick. It's not her first time completing the experiment; she's a master's student and she knows the drill.

The saline gel will allow electrical activity from Patrick's brain to be captured with more precision during the 40-minute session. Friesen hooks wires up to the sensors in the cap, and connects them to his laptop. The experiment begins in silence as Patrick watches a five-second video clip. In it, two individuals complete a complicated handshake—like baseball players after a home run. She watches the handshake over and over again, and is then told to imagine it. All the while, Friesen's laptop collects data from the sensors.

Brain plasticity—it's a term you may have heard before. Enter a quick Google search, and you'll find dozens of online sites offering games and puzzles promising your brain a fun-yet-challenging workout. There's even a *National Geographic* reality television series called *Brain Games* that explores aspects of the human mind, and invites viewers to participate in experiments. While the jury is still out on whether the fun and games will actually improve your thinking, researchers at Dalhousie are exploring the science of brain plasticity. Friesen's work is one of several projects underway in the Laboratory For Brain Recovery and Function in the School of Physiotherapy (boelab.com), under the direction of their professor Shaun Boe.

Dr. Boe and his team of students are researching stroke-related neuroscience—specifically, the role

mental imagery can play in post-stroke rehabilitation. In this particular experiment, Friesen wants to know if the neurofeedback system he's using can allow people to increase activity in the brain regions that produce movement. "If you can imagine moving your arm, you can stimulate the part of the brain responsible for actually moving your arm," he explains. He also adds that the system he is using is completely unique. He knows this because he designed it himself.

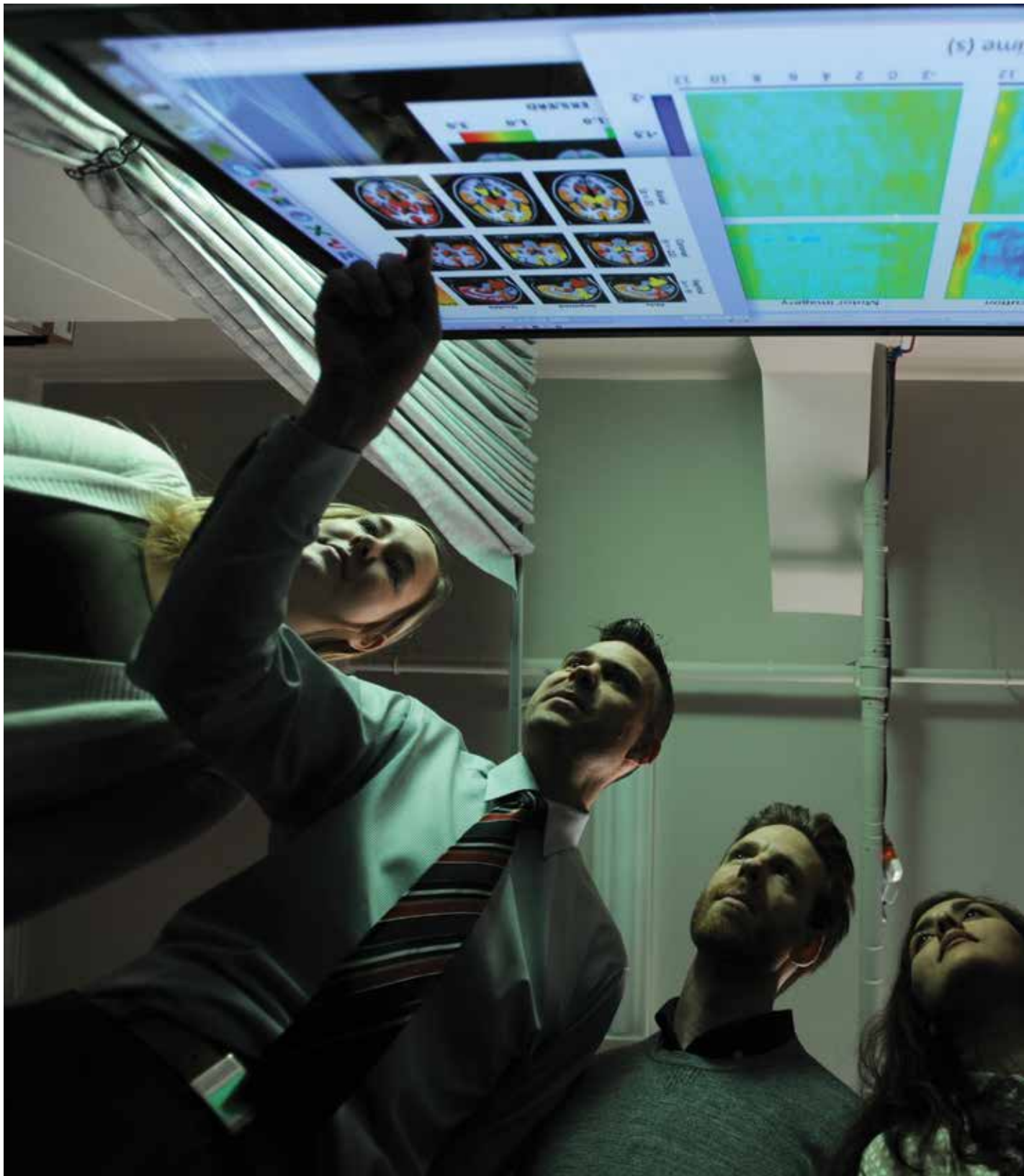
"Most of my best ideas come from my students," says Dr. Boe. He started the lab in 2011 and since has trained over 30 students, with 14 graduate and undergrad students currently in the lab. The students are heavily involved in conducting the lab's research studies, which focus on helping people to learn better, and ultimately using this knowledge to help people recover more quickly. "It really comes down to learning," says Dr. Boe. "When we understand the basics of how people learn, we can apply that knowledge in a clinical setting."

So, how do we learn? Repetition is one piece of this complex brain puzzle. "If you engage in something over and over again, in time, you will get better at it. We remember how to ride a bike because the brain stores this information through complex networks of connected regions. Repetitive practice rewires the brain to make these networks more efficient," says Dr. Boe, likening this process to a bumpy road that becomes smoother the more people use it.

"Our lab works to identify the most important connections for learning a skill, and tests several new methods, like neurofeedback and brain stimulation, to enhance these connections. Our goal is to develop the most effective procedures for enhancing learning, and to apply these techniques to rehabilitation," he says. This is where plasticity comes in. "The ability to learn a new skill depends on brain plasticity; the brain's ability to change."

How does understanding brain plasticity help in a clinical setting? Imagine you're a stroke survivor who needs to gain back movement in your arm. Traditional rehab would involve having you repeat physical exer-





"Our goal is to develop the most effective procedures for enhancing learning, and to apply these techniques to rehabilitation," says researcher Shaun Boe (second from left), pictured with students in his lab.

cises—sometimes thousands of repetitions of specific movements. But because you’ve had a stroke, you’re also likely to tire easily, making doing those exercises daunting and maybe even physically impossible. What if you could get results with a combination of mental imagery and physical exercise? “Imagery can help us learn, re-learn and recover physical skills,” says Dr. Boe. “It’s another form of practice that people in recovery can use.”

We all need feedback to learn and neurofeedback—receiving feedback on how you’re doing with mental imagery exercises—is another piece of the puzzle. However, this can be difficult with these types of exercises. How can someone tell if they’re doing mental imagery exercises correctly, when they’re largely imagined? What type of feedback would be most beneficial? How often should it be received? “This is not a new area of science, but it’s something we’d like to take to the next level,” says Dr. Boe.

In the lab, that kind of neurofeedback is provided by expensive sensors and computing systems costing anywhere from \$100,000 to \$5 million. But that could change if a smartphone app Dr. Boe and his research team are working on comes to fruition. Dr. Boe is partnering with Dr. Tim Bardouille, a scientist at the IWK Health Centre, on the project. The hardware and app would cost about \$400 and will collect the data from an EEG cap similar to the one Friesen used on test subject Patrick, but instead of having 128 electrodes, it would have about four. Users would still be able to collect valuable data on their brain activity, and stream it to their tablet or smartphone. In this way, they could track their own brain activity and function, while receiving the feedback they would need in order to maximize the benefit of imagining tasks in post-stroke or other forms of recovery.

Dr. Boe points out that some devices are available online, but they are for recreational purposes—more along the lines of brain games. His group is looking to enter the clinical market. “In the health-care system, solutions have to be feasible and cost-effective. That’s why we’re looking into whether our \$400 system can help people improve and recover faster.”

Eventually, Dr. Boe can see applications for the use of mental imagery beyond the clinical arena. “It’s not just about recovery after a stroke. High-level athletes like the Canadian Olympic team can use visualization techniques like mental imagery to improve athletic performance. Or, these techniques could be used in developing a highly-trained workforce, including surgeons with limited time in the operating room,” he says. “There are broad applications to this. There’s so much we still don’t know about the brain, but we do know that it is much more flexible than you think.”

## Dal on the brain

**Dalhousie is a leading centre for brain research. Here are just a few examples of our programs, research and partnerships:**

**The Brain Repair Centre** is a research institute at Dalhousie dedicated to brain protection and repair. The centre has more than 50 principal investigators, \$9 million in annual external funding and 250 trainees and staff engaged in a wide range of research. It is a hub for brain-focused work underway in Halifax, uniting science, clinical research and drug and technology development. Brain Repair Centre researchers are working to help people with neurological and neurodevelopmental disorders such as epilepsy and autism, ALS, multiple sclerosis, Parkinson’s disease, Alzheimer’s disease, injuries affecting the brain and spinal cord, psychiatric illnesses, traumatic brain injuries and more. The Centre’s partners include the Dalhousie Medical Research Foundation, the Government of Nova Scotia, the IWK Health Centre, Capital Health and the QEII Health Sciences Foundation.

Research by **Dr. Aaron Newman** (Psychology and Neuroscience) proved that the brain processes sign language like any other spoken language, concluding that American Sign Language (ASL) is a specialized human language. The research, conducted in partnership with Georgetown University, the University of Geneva and the University of Rochester, was applauded by members of the deaf community.

**The Maritime Brain Tissue Bank**, housed at Dalhousie, was established to collect brain tissues and make them available to researchers who are trying to better understand the causes of dementia, and help find more effective treatments. All funds donated to the 2014 Molly Appeal are being used to expand the Maritime Brain Tissue Bank so that it can store more data and more brain and spinal cord tissues. (The annual Molly Appeal supports medical research at Dalhousie Medical School in four key areas: neuroscience; cardiovascular; inflammation, infection and immunity; and cancer).

**Dalhousie’s Department of Psychiatry** is researching mood disorders, early psychosis, cognitive health and rehabilitation, early detection and intervention in childhood psychiatric disorders, addictions and personality, sleep, the impact of emotions on mental health, brain imaging and the molecular mechanisms underlying psychiatric and neurological disorders.

**The Atlantic Mobility Action Project**, based in Dalhousie’s Faculties of Medicine and Health Professions, aims to restore mobility to people whose nervous systems have been damaged by injury or disease, such as spinal cord injury, ALS, stroke, Parkinson’s disease or multiple sclerosis.



Could the neurofeedback provided by computing systems and expensive sensors, like the ones pictured here, be duplicated with fewer electrodes and a smartphone app? That's one option Dr. Boe and his team are exploring.



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“I remember wondering how the disease ever got to places like this, given that they were so remote.”

## BUILDING A BETTER WORLD

# A healthy network

His grandfather's exhortation to leave the world a better place inspired Luke Disney (BA'92) to help create a network of African health centres. By Mark Campbell

It's an encounter that haunts Luke Disney (BA'92) to this day. It was 2005, and he was in a remote Malawian village with representatives from the World Food Program and courier company TNT Express. The organizations had been having problems finding truck drivers for their Moving the World initiative, intended to alleviate hunger in Africa. They decided to investigate the situation, taking Disney, the communications manager for Moving the World, along.

Entering a hut in the village, Disney saw a man on the ground in considerable pain. “His wife was kneeling beside him, trying to ease his visible discomfort.” It was, he notes, the first time he had met anyone with full-blown AIDS. “I feared he didn't have long to live.”

Exiting the hut, Disney noticed something else unsettling: an absence of young men and women in the village. Like other rural African communities he had visited on this trip, it had been decimated by the spread of AIDS.

“I remember wondering how in God's name the disease ever got to places like this, given that they were so remote. I asked the village Chief Headman what he did for a living. He told me he'd been a long-distance truck driver.”

Disney and his colleagues discovered the rates of HIV were twice as high among truck drivers in Africa as they were in the general population. More troubling, the drivers were spreading the virus to remote communities via transportation corridors. Deciding something needed to be done, TNT and the World Food Program launched a project to deliver information about HIV and general health-care services to truck drivers, sex workers and roadside communities. They used converted commercial shipping containers as clinics. And they asked Disney to get the initiative off the ground.

It was well beyond anything Disney had done before, but he decided to take it on, inspired in part by a philosophy that had been ingrained in him since his childhood. That philosophy was decidedly Dalhousie in spirit, as it was nurtured by several generations of university alumni

and professors, starting with his grandfather, Eric Mercer (BSc'37).

“He used to tell me ‘Leave the place better than you found it,’” says Disney of the mathematics professor. “That was one of his mantras, and it gradually sunk in such that being helpful became the thing for me to do.”

Over the past eight years, Disney has followed that advice to the letter as executive director of the North Star Alliance, the health-care initiative launched by TNT and the World Food Program. Under his direction the Alliance has grown from a single clinic to a computer-linked network of 34 clinics spanning 13 countries and serving 280,000 patients a year. It's an impressive achievement and Disney is grateful to be part of it.

“I was in the right place at the right time,” he says. “Just to be given the opportunity to think of how to scale something like this and actually do it was an honour and it appealed to the core of who I am.”

Disney's core is Dalhousie through and through. His mother, Margaret (BA'66, BEd'67), her father, Eric Mercer, and her grandfather Charles Henry Mercer, a professor of modern languages, all share a connection to the university, as does his father, Thomas (BA'66 (History), DDS'73, MSc'78 (Oral Surgery)). He recalls how his grandparents hosted international students in their home and how his mother carried on that tradition.

“I got to meet people from places like China and India through my grandfather and from Spain through my mom. She encouraged me from an early age to think globally by learning French and Spanish and to do a student exchange in France when I was 15.”

These encounters and experiences fueled an interest in international politics which Disney pursued as a Political Science major at Dalhousie. “I'd been around it growing up. It provided a wonderful environment for taking my first steps toward independence and discovering who I am as a person.”

That discovery led Disney to Europe to sharpen his fluency in Spanish. At the time, unification was sweeping the continent and Disney, caught



Under the direction of Luke Disney (BA'92), far left, the North Star Alliance has grown to 34 clinics in 13 countries, serving 280,000 patients annually. ABOVE, a roadside clinic in Maai Mahai, Kenya LEFT, clinic patients in The Gambia

up in the excitement, decided to stay. After earning a Master of Science degree in national and European politics at the University of Edinburgh, he eventually settled in the Netherlands, starting a family and working a series of teaching, public relations and magazine editing jobs before joining Moving the World.

"I worked there through the Indian Ocean tsunami and during the emergency response to Sudanese refugees in Chad. It gave me a deep understanding of humanitarian logistics and how organizations like the UN worked. That led me to North Star."

Initially the Alliance's focus was to stop the spread of HIV. Disney says they quickly realized they needed a broad health-care scope to build relationships and trust. "We knew that stigmatization was a major issue so we created a comfortable non-stigmatizing environment to let people know we were there for them, whatever they needed."

Funding for the Alliance comes from a mix of corporate, government and global health donors. Their work has been recognized by the World Economic Forum, the Clinton Global Initiative and UNAIDS, among other organizations. It has also been supported by an impressive array of celebrities and politicians including President Bill Clinton, Her Royal Highness Princess Haya of Jordan, former UNAIDS Executive Director Dr. Peter Piot and cricket star Mpumelelo Mbangwa.

As instructive and thrilling as it can be to tap into such an influential network, Disney says the supporters who have made the biggest impression on him over the years are the ones you will never see on TV. There's the team member who used his own savings to replace \$1,000 in payroll cash stolen from him—North Star reimbursed him when it found out—or the woman who rallied her neighbours to walk 10 kilometres to petition the government to provide more medicine to their local North Star clinic.

"So many people have selflessly invested in improving the lives of the most disadvantaged every day without promise of reward or recognition. They deeply inspire me and keep me doing what I'm doing."

Disney says the Alliance is looking to grow by 30 per cent over the coming year and is in discussions about licensing its patient management system to other organizations. A new office will open in West Africa making possible an expansion into that region, and there will be four high school clinics opening in Togo.

When the day comes to hand over the reins of the Alliance, Disney says he could return to Nova Scotia, but he hasn't given much thought to what comes next. For now, he's content to do the work he does. He also hopes he can pass on to his children the same advice and encouragement to make a difference that he's received from his Dalhousie family.

"If I can instill in them what I got from my grandfather—that calling to leave the place a little better than you found it—I'll be able to sit on my porch in my retirement with a smile on my face."

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/STAY-INFORMED/BUILDING-A-BETTER-WORLD](http://ALUMNI.DAL.CA/STAY-INFORMED/BUILDING-A-BETTER-WORLD).**

“There aren’t many people who work in both the financial and the creative world.”

## SPOTLIGHT

# Play money

Investor, author, playwright. Benj Gallander (MBA’83) says his varied pursuits have more in common than one might think.

**B**enj Gallander (MBA’83) is a true contrarian. For the past 35 years, his success in the world of contrarian investing has garnered him international recognition as a financial expert. He has authored three books: *The Canadian Small Business Survival Guide*, which has sold more than 50,000 copies and is currently in its 10th edition, as well as two others about the stock market. He is also co-editor and president of the *Contra the Heard* investment letter and is a columnist for *The Globe and Mail*.

He’s also written half a dozen theatrical plays—yes, plays—beginning in 1991 with a show titled *The Death of Parent God*, which revolves around a protagonist grappling with religion. That same year Gallander, along with a group of friends, created and launched The SummerWorks Theatre Festival in Toronto.

For a man who graduated with a master’s in international business and marketing, becoming a playwright began as a wish on a bucket list and then turned into a passion. “There aren’t many people who work in both the financial and the creative world,” Gallander says. Taking on new challenges was nothing new for the Toronto-born investor who once, at age 20, joined a women’s ballet class simply because he thought learning the dance would be worthwhile. “I knew nothing about writing a play. I had never even taken a course,” he remembers. “In terms of writing, I wasn’t much of a writer at all. But I worked at it.”

To Gallander, theatre and investing have much more in common than most would think. He sees an inherent theatrical element in the stock market. It is a stage where real human drama unfolds in a pageantry of greed, fear and ambition, driven by a cast of larger than life characters, who investors—such as himself—strive to understand. Gallander believes his ability to read people comes from years spent travelling to more than 30 countries, and working in five while being exposed to a variety of personalities from both the business and art worlds.

“When you write a play you’re developing characters. In terms of investing, you have the way that people look at things and the ways that



Gallander (MBA’83) is co-editor and president of *Contra the Heard* investment letter and a *Globe and Mail* columnist.

minds work,” Gallander says, explaining that investing in stocks involves predicting how people are going to react and what their next move will be. “Creating theatre, it’s a lot how people act and react to things too.”

And while the worlds may appear to be very different, Gallander suggests that they are populated with similar types. He uses the example of his time spent living in an artist co-op in Toronto. “You go to the AGM for the artist co-op and you see certain personality types. You go to an AGM for a major corporation and you can see a lot of the same types, but in a different world,” he says.—Stephanie Taylor

BILL PETRO



“I thought that if I sold yogurt to students to eat with their lunch, we’d be able to raise quite a bit of money toward a scholarship.”

## DONOR PROFILE

# Daisy’s legacy

Former Dal Spanish Department head Sonia Jones turned milk into yogurt into a scholarship that has helped students sharpen their language skills and expand their horizons

**O**f all the scholarships available to support Dalhousie students in their studies, it’s safe to say only one—the Dr. Sonia Jones Scholarship in Spanish—began with a cow named Daisy.

“I was very eager to ensure that the best students at the university had a chance to study in a Spanish-speaking country at some point before graduating so they could become fluent in the language,” says the former Department of Spanish and Latin American Studies professor (1972–1990).

“I knew from my own experience how it benefitted me, but recognized most students couldn’t afford to travel abroad for a year. When I became chair of the department, I decided to find some way of raising money so they could do that.”

The Harvard graduate, who had previously lived in New York with her husband Gordon, a successful entrepreneur, found a solution in Daisy. After moving to Nova Scotia, the couple purchased farmland in Lunenburg and invested in Daisy to make milk for their family. But the cow produced more milk than they needed, so Dr. Jones began using it to make yogurt.

“I thought that if I sold yogurt to students to eat with their lunch, we’d be able to raise quite a bit of money toward a scholarship.”

Dr. Jones started selling the yogurt at Dalhousie and soon after in grocery stores throughout the region, eventually growing it from a simple business she ran out of her kitchen into a multi-million dollar operation known as Peninsula Farm. She also transformed a basement at Dalhousie into a Spanish café to help make her scholarship possible.

“With the money from the café, and a bit extra, we were able to start sending students overseas.”

More than 40 years later, the scholarship is still going strong, says John Kirk, a professor with the department, who was hired by Dr. Jones in 1978.

“At the time, we were sending students to Salamanca, Spain,” notes Dr. Kirk, who oversees the fund. “It’s expanded since then, so we’re



Dr. Sonia Jones helped turn yogurt into a scholarship fund, sending about 150 students abroad to study Spanish.

also sending them to Mexico, Peru and Cuba. We’ve probably sent 150 students abroad over the years and I think they would tell you it’s had life-changing impact, thanks to her generosity.”

Dr. Jones retired from Dalhousie and the yogurt business many years ago, but has kept busy since then writing books, publishing 16 to date. Now living in Michigan, she made a trip to the university this year while testing a new Spanish textbook she’s recently completed. Dr. Jones says she was delighted to see how the fund has grown over the years. For her, it’s a nice connection to the one university that not only offered her a position upon graduation, but also subsequently encouraged her professional development through opportunities such as chairing the Cultural Activities Committee.

“I can’t say enough in praise of Dalhousie for growing the scholarship, or for their efforts to keep it going. It’s giving students the chance to do something they otherwise wouldn’t be able to do, and I’m happy I could help make that come about.”—Mark Campbell

Get in the picture at an upcoming alumni event

## ALUMNI EVENTS

# A busy fall



TOP, President's Fun Run during Homecoming 2015. RIGHT, Reunion attendees meet up during the Dalhousie Alumni Dinner



LEFT, President Florizone addresses attendees at the donor reception on Giving Tuesday, Dec. 1. BELOW, At the event, several long-time donors were recognized for their generosity. (l-r) Elvira Gonnella, Bruce Moxley and Michael Covert with President Florizone.



Fall is traditionally a season for reunions and family gatherings, and for the Dal alumni family fall 2015 was no exception. Dalhousie connections and memories were celebrated at events on campus, across the country and around the world. Here are some highlights.

### HOMECOMING 2015

Dalhousie's sixth annual Homecoming weekend drew alumni, students, faculty and friends to a number of events across campus, ranging from faculty-specific lectures to the Dalhousie-wide Alumni Dinner. A lively group of reunion attendees enjoyed revisiting Halifax and seeing the changes on campus. The President's Fun Run was a great success, with over 600 people donning sneakers and hitting the streets to pass through the Studley, Sexton and Carleton campuses on a fine October Saturday morning.

Looking forward to this coming fall, Dal's Homecoming will be held October 13-15, 2016.

### DONOR RECEPTION

On Giving Tuesday in December, over 200 donors joined President Richard Florizone at the Life Sciences Research Institute for a holiday donor reception to celebrate philanthropy and recognize generosity to Dalhousie University.



FOR DETAILS ON UPCOMING EVENTS  
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## ALUMNI EVENTS

Our alumni event season opened in Toronto, with more than 500 alumni catching up at the Steam Whistle Brewery. Always a lively event, this year, folks took advantage of the Maritime photo booth, dressing up in Sou'westers and Dal gear for the camera. Graduates of all backgrounds, faculties and ages—from annual attendees to those attending their first alumni reception in decades—filled the room at our biggest event.

Ottawa's National Art Gallery was the scene for this year's reunion in the nation's capital. A number of folks received alumni pins in recognition for their reunion years, including Dentistry grad Robert Cooper, Education grad Peggy Wightman and Science and Law grad Stuart MacKinnon for their 50th, 55th and 60th, respectively.

Dalhousie Alumni Association President Courtney Larkin (BMgt'10) welcomed the crowd in Montreal, expressing her enthusiasm to connect with new faces and engage Dal's 125,000 alumni around the world. After detailing the innovative new learning spaces opened on campus, she put down the microphone and picked up Dal gear to join fellow alumni in the Maritime photo booth. The crowd spanned several decades of alumni, including special guest Gregory Neiman (MD'48), who was celebrating a remarkable 73 years as a Dal alumnus.

President Richard Florizone hosted a happy hour in Vancouver in January, mingling with about 30 West Coast alumni.

## CHAPTER NEWS

Three new alumni chapters have been established: in Shenzhen, China, New England and Halifax. A chapter for Beijing is also in the works. This brings the number of Dal alumni chapters to 16 around the world.

And the chapters have been busy! The Halifax chapter hosted a holiday dinner for 100 international students who stayed in Halifax during the December break. Edmonton and Toronto organized pub nights, Calgary coordinated outings to Stampeders and Flames games, Vancouver hosted a lobster boil and Hong Kong held their chapter's annual general meeting.

The Ottawa, Montreal, Toronto and Vancouver chapter executives attended receptions, where they announced chapter updates to local alumni, awarded door prizes and offered alumni pins to those in reunion years.

To find out how you can become involved with an alumni chapter visit [alumni.dal.ca/chapters](http://alumni.dal.ca/chapters), or contact [bill.chernin@dal.ca](mailto:bill.chernin@dal.ca)



TOP, Barry McLoughlin, Laura Peck (BA'77, BEd'78) and Senator Jim Cowan (BA'62, LLB'65, LLD'09) in Ottawa. CENTRE LEFT, Naomi Wilson (BA'12) at the photo booth in Montreal. ABOVE Calgary chapter co-chair Holly Marisco (BSc'05) at right and events coordinator Holly Marshall (BComm'14) at left celebrate Alexander Keith's birthday at pub night. RIGHT Alumni and friends at the Maritime photo booth in Toronto.



“I was really surprised by the lack of research and support for young people with cancer.”

## SPOTLIGHT

# Coping skills

Emily Drake (MA'10) has made developing support programs for Montreal's young adults with cancer the focus of her career. Now, she's turning her focus to Halifax.

When Emily Drake (MA'10) was searching for a subject to focus on for her master's thesis in health promotion, one of her instructors told her to find something she was passionate about. To say she accomplished that is an understatement. “When I started to look into research on people with cancer I was really surprised by the lack of research and support for young people in the age group of 18 to 39,” Drake says from her home in Halifax, where she recently relocated after a few years in Montreal. “There are a lot of resources for children, or people who are much older. But young adults are a minority population in the cancer field.”

Since graduating in 2010, Drake has been at the forefront of developing research and support programs for young adults with cancer, who number in the region of 7,000 new diagnoses per year in Canada. Most recently she worked as the director of Cancer Fight Club, an online community and in-person program that provides resources and support services to anyone affected by the cancer diagnosis of a young adult. It's part of Hope & Cope, a program at Montreal's Jewish General Hospital, the only hospital in Canada to have an interdisciplinary young adult cancer clinic.

Through her research Drake realized that many young adults with cancer ended up in support groups with older people whose experiences and needs were much different from the challenges they faced. “These young adults may never have had a chance to have an intimate relationship, they may have lost the ability to have children. Many have had to drop out of school, and go on welfare to support themselves and their pharmaceutical costs,” Drake explains.

Through Hope & Cope, Drake helped create support programs and pioneered one of Canada's first retreats geared to the needs of young adults living with metastatic or advanced cancer. Issues tackled include how to talk to children about a young parent's advanced cancer diagnosis and create living wills.

Drake raised the profile of the needs of young adults living with can-



Emily Drake (MA'10) credits Dalhousie with giving her the skills and confidence to advocate for young adults with cancer.



cer through her blog posts on the Huffington Post and co-created the Twitter hashtag #AYACSM. It stands for Adolescent and Young Adult Cancer Societal Movement, and brings people working in this field as well as patients together for chats once a month. She's been an invited speaker at numerous conferences, including Australasia's first youth cancer summit and scientific congress held this past December in Sydney, Australia.

Drake recently relocated to her hometown Halifax. In October she created a private consultancy in Halifax to continue her work. Hope & Cope signed on as her first client.

Drake is happy to be back in Halifax and credits Dalhousie with giving her the skills and confidence to advocate for young adults facing cancer. “My development as a health promotion specialist and researcher flourished because of the caring and supportive faculty and staff at the School of Health and Human Performance,” says Drake. “For every step I took, I felt that I had people backing me up telling me that I could do it.” —Tina Pittaway

NICK PEARCE; SUBMITTED



## CLASS NOTES

### 1950s

'52

Breakwater Books of St. John's, N.L. recently published Volume Two of *Master Ship-builders of Newfoundland and Labrador* by **CALVIN DONALD EVANS**, BA. Calvin resides in Wasaga Beach, Ont.

### 1970s

'71

**GARY GEDDES**, BA, has been promoted to the rank of Hachidan, 8th dan black belt, at a grading held in August in Massachusetts by the International Uechi Ryu Karate Federation. Gary is the third Canadian to achieve this rank from the IUKF. He also holds two Master titles, Renshi and Kyoshi, and continues to teach in Windsor Junction, N.S.

'77

**LAURA PECK**, BA, BEd'78, is now a senior partner at Transformleaders.ca, a leadership development company. In addition, she is vice-president of McLoughlin Media. She is also a Fellow with the Clayton H. Riddell Graduate Program in Political Management at Carleton University in Ottawa.

'78

**DR. MICHAEL FLEMING**, MD, PGM'80, has been named the 2015 Family Physician of the Year for Nova Scotia by the College of Family Physicians of Canada. A leader in his practice and community, Dr. Fleming is recognized for his dedication to patients and his relentless pursuit and advocacy of continuing professional development.

**ROB MACLELLAN**, BA, BEd'79, is pleased to announce the launch of his new business, Tide's Turning Consulting Services for Non-Profit Organizations, in October 2013. He can be found on the web at: [nsnonprofitconsulting.com](http://nsnonprofitconsulting.com)

'79

**ED COLLISTER**, MLS, was one of about 17,000 men and women who participated in a marathon starting in the stadium in Marathon, Greece. The 42.2 kilometre run followed the blue line to the Panathenaic Stadium in Athens.

### 1980s

'83

**SISTER VERONICA MATTHEWS**, BN, has been awarded an honorary degree (LLD) from St. Francis

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Xavier University. She was recognized for providing over 50 years of service as a nurse, for being an advocate for improved health care for First Nations communities and for her role in establishing and managing one of the first services for the sick and elderly in Nova Scotia.

'88

**STEPHANIE DOUMA**, MSc, recently founded Terrapetratox, the first medical geology company in Canada. The Ottawa-based company assesses and manages geological and population health risks.

**GEOFF REGAN**, LLB, has been elected Speaker of the House of Commons. The Liberal MP for Halifax West is the first Atlantic Canadian to hold the position in almost a century.

**DREW WHITE**, LLB, has taken a position as legal advisor at the United Nations within the Office of the High Commissioner for Human Rights. He is specifically assigned as the legal counsel and reporting officer in an

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(Presently on leave of absence, serving as a Member of the Canadian Parliament.)

The Hon. **David C. Dingwall**, P.C., Q.C., Counsel (LL.B. '79)

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investigation of war crimes violations and abuses of human rights in Libya and is currently on mission in Northern Africa.

'89

**CAROL JUSTASON (HIGGINS)**, BComm, was appointed Public Works and Government Services Canada's manager of acquisitions for New Brunswick and Prince Edward Island.

**ROGER THOMPSON**, BA, MA'94, uses Star Trek to teach ethics at Kyung Hee University in Korea, and is the first Star Trek professor in the country. His second book, *Lessons Not Learned: The US Navy's Status Quo Culture*, was recently endorsed by *New York Times* bestselling author Andrew J. Bacevich.

## 1990s

'90

**CALEB GIBBONS**, MBA, moved back to Singapore in

2013 and is keen to connect with Dal alumni in the region.

**HELEN SPINNEY (WEIR)**, BScN, has retired after a 40-year career as a registered nurse. She began nursing in Halifax following graduation from Sydney City Hospital School of Nursing in 1975 and finished as a staff educator with Horizon Health Network in Moncton, N.B.

'94

**RICHARD RUSSELL**, BMus, works as a financial educator and advisor, providing financial products and services such as investments as well as life and disability insurance. In his spare time, Richard plays trombone in The Count and The Cuban Cocktail, a salsa fusion band. The band's album, *Influence*, was nominated for an ECMA.

'95

**SHERYL GORDON**, BA, has recently published an anthology of beguiling and bemusing words, titled *A Rewording Life*. She

collaborated with over a thousand notable Canadians to write the book and will donate half of the profits of the book sales to the Alzheimer Society of Canada, in honour of her mother. She can be found online at: [arewordinglife.com](http://arewordinglife.com)

'96

**ALLISON DELLANDREA**, LLB, was named by *Canadian Lawyer Magazine* one of the top 25 most influential lawyers in Canada, in the "Changemakers" category.

'99

**HEATHER SMITH**, BSW, is pleased to announce the birth of her son, Richard Robert "Robbie" Douglas, on Feb. 19, 2015.

**SARA WILSON**, BA, has received the Women of Excellence Award in Health and Sport 2015 from the Canadian Progress Club Halifax Cornwallis. She is the owner of Metro Ladies Golf Inc.

## 2000s

'00

After some time at home caring for her two children, **YARROW GILLIS**, BSc, is returning to her area of passion: speaking, writing and consulting in the area of patient- and family-centred care.

'03

**AARON BARKHOUSE**, BSc, Dal's 82nd Rhodes Scholar, married Betsy Cooper of Buffalo, N.Y. on Oct. 17, 2015. Between soccer matches he works as a solar cell scientist at SunPower in Menlo Park, Calif.

'06

**KIRK O'BRIEN**, MBA, recently completed the CPABC CMA Executive Program and graduated earning the professional designation CPA, CMA. Kirk is with BMO Private Banking and serves on the board of Scouts Canada Foundation and the

Audit & Finance Committee of Tourette Canada. He lives in Victoria, B.C. with his wife Leslie and two children.

## 2010s

'13

**SHARIQUE KHAN**, BComm, has recently accepted a position at PricewaterhouseCoopers as senior associate in tax and has completed her CPA, CMA designation.

'14

**LYLE QUINN**, BA, is pleased to announce that he has accepted an acting position of conference sales manager with Dalhousie University. Lyle looks forward to connecting with alumni from all over the world about the wonderful services offered in Halifax and Truro at Dalhousie.



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## IN MEMORIAM

**LAURA EVELYN (GOLDEN) FRANCIS**, BA'41, Chilliwack, B.C., on Aug. 29, 2015

**M HERMAN PIERCE**, DDIP'47, Kentville, N.S., on Feb. 19, 2015

**MICHAEL RODINOS**, BEng'47, on Sept. 6, 2015

**SHIRLEY AGNES (WHEATHERBY) HENDRY-PARSONS**, BA'48, Kanata, Ont., on Sept. 22, 2015

**ERNEST REGINALD MURRAY**, BEng'48, Ottawa, Ont., on Sept. 22, 2015

**DOUGLAS ARTHUR STALLARD**, DPHRM'48, New Glasgow, N.S., on Oct. 1, 2015

**ROBERT CRITCHLOW TUCK**, BA'48, Charlottetown, P.E.I., on Nov. 16, 2015

**LLOYD HERBERT YEOMANS**, BEng'48, on Nov. 28, 2011

**ROBERT WALLER HANES**, DDIP'49, Aurora, Ont., on Nov. 25, 2015

**JOHN FRANCIS MACISAAC**, LLB'49, Gloucester, Ont., on Oct. 22, 2015

**ALEXANDER CLAIR MACMILLAN**, BComm'49, Fredericton, N.B., on Oct. 1, 2015

**DONALD ALEXANDER MCLEOD**, BSc'49, DENG'49, BEng'52, DEng'94, Wolfville, N.S., on Oct. 8, 2015

**DONALD MAXWELL SEAMAN**, BSc'49, MD'57, Kentville, N.S., on Nov. 26, 2015

**ARTHUR CLIFFORD HARRIS**, DENG'50, Dartmouth, N.S., on Sept. 25, 2015

**NORMAN STEWART LOGAN**, DDIP'50, Lansdowne, Ont., on Sept. 6, 2015

**ALLAN J MACLEOD**, MD'50, Halifax, N.S., on Sept. 19, 2015

**RALPH AINSLIE SHAW**, BComm'50, Nepean, Ont., on May 11, 2015

**JESSIE CAROL (WOOD) TEVLIN**, BA'50, North York, Ont., on Nov. 22, 2015

**HENRY EDWARD ROY COLYER**, BEng'51, Bridgetown, N.S., on Sept. 3, 2015

**KEITH ALEXANDER FANCY**, BComm'51, Hubbards, N.S., on Aug. 27, 2015

**HAROLD FRANCIS JACKSON**, LLB'51, LLM'52, Dartmouth, N.S., on Nov. 6, 2015

**MYLES JOSEPH DOODY**, BEng'52, Halifax, N.S., on Sept. 7, 2015

**ELEANOR ALLISON (BAILEY) MCCARTHY**, BA'52, Dartmouth, N.S., on Oct. 24, 2015

**IGINO CAMILLO DIGIACINTO**, BSc'53, DENG'53, BEng'56, Halifax, N.S., on Oct. 26, 2015

**JOHAN DEVOLD KOPPERNAES**, DENG'53, BEng'55, Bedford, N.S., on Oct. 9, 2015

**HELEN MARJORIE (YEADON) PASEMKO**, BSc'53, MSW'59, Head of Chezzetcook, N.S., on Nov. 23, 2015

**VICTOR WILLIAM SUTHERLAND**, DDIP'54, Calgary, Alta., on Sept. 23, 2015

**LIONEL ALBERSTAT**, BSc'56, LLB'61, Calgary, Alta., on Oct. 17, 2015

**JOSEPH GUY LOSIER**, DDIP'56, Tracadie-Sheila, N.B., on Oct. 17, 2015

**JOHN MCNAB DAVISON**, BComm'56, LLB'59, Halifax, N.S., on Sept. 1, 2015

**RONALD JAMES KNOWLES**, MD'57, Moncton, N.B., on Aug. 21, 2015

**ENID IRMA (LAND) LESSER**, LLB'57, North York, Ont., on July 14, 2015

**NEIL JOHN FRANCIS MACKINNON**, BA'58, MA'64, Halifax, N.S., on Oct. 5, 2015

**DONALD STEWART MCINNES**, BA'58, LLB'61, LLD'00, Halifax, N.S., on Oct. 3, 2015

**RONALD JAMES LEWIS**, DDS'59, Mississauga, Ont., on Aug. 14, 2012

**KENNETH ALEXANDER MACDERMID**, BEng'61, Dartmouth, N.S., on Sept. 3, 2015

**MALCOLM HENRY BRADSHAW**, LLB'62, Yarmouth, N.S., on Oct. 2, 2015

**CARL SHAFFIET-ALI SAIPHOO**, MD'62, Thornhill, Ont., on Aug. 30, 2015

**CLIFFORD JOHN SHIRLEY**, BComm'62, Toronto, Ont., on April 12, 2015

**DONALD W CARTER**, DDIP'63, Dartmouth, N.S.

**ANGUS CARLETON MACDONALD**, MD'63, Baddeck, N.S., on Aug. 10, 2015

**BARBARA CLARE MCPHERSON**, BA'65, on Nov. 23, 2015

**WILLIAM LEARD MACINNES**, BComm'66, LLB'67, Halifax, N.S., on Nov. 2, 2015

**WAYNE MICHAEL ROMA**, BEng'66, on Oct. 2, 2015

**WILLIAM C OGILVIE**, FRC'67, on Nov. 12, 2015

**JAN VAN DER LEEST**, DDIP'71, Economy, N.S., on May 27, 2015

**DONNA LEE (BYARD) SEALEY**, BEd'71, BA'71, MA'78, Dartmouth, N.S., on Nov. 8, 2015

**JAMES THOMAS ARCHIBALD**, BSc'72, MSc'74, Bedford, N.S., on Oct. 27, 2015

**YVON ALPHA LAVALLEE**, BA'72, MBA'75, Saint-Andre, N.B.

**JAKOB ARTHUR MEYERHOFF**, MD'72, Surrey, B.C., on Oct. 21, 2015

**DOREEN MARIE (D'ENTREMONT) ANDERSON**, BNRN'73, Hamilton, Ont., on Sept. 16, 2015

**PATRICIA ANN KEDDY**, BEd'73, Bedford, N.S., on Nov. 7, 2015

**KENNETH ANGUS MACDOUGALL**, BPE'73, Hammonds Plains, N.S., on Oct. 19, 2015

**PREM P MOHINDRA**, PGM'73, Saint John, N.B., on July 15, 2002

**SHIRLEY MARIE SITEMAN**, DPH'73, Victoria, B.C., on Oct. 11, 2015

**LLOYD R BARNES**, DDIP'74, Conception Bay South, N.L., on Aug. 17, 2015

**THOMAS ANDREW MOSHER**, BSc'74, BEng'76, Dartmouth, N.S., on Oct. 31, 2015

**PAUL WILLIAM GOLDBERG**, MBA'75, LLB'78, Halifax, N.S., on Aug. 17, 2015

**ANNE MARIE (PURCELL) WYCLIFFE**, DDH'75, Sydney, N.S., on Sept. 19, 2015

**GEORGE BRADEN**, MA'76, Nepean, Ont., on May 25, 2015

**JANET ELIZABETH COX**, DPH'76, DON'76, St. Anthony, N.L., on April 24, 2015

**CANDACE FAITHE PALMER**, BA'76, Bedford, N.S., on Aug. 19, 2015

**SUSAN ELIZABETH (SELLORS) REGAN**, BA'76, BEd'77, Halifax, N.S., on Aug. 25, 2015

**DOROTHY ANN STEWART**, BA'78, Charlottetown, P.E.I., on Feb. 7, 2008

**JON CHARLES MURPHY**, BSc'79, Liverpool, N.S., on Oct. 19, 2015

**CYNTHIA FULLER DAVIS**, BA'80, BAHC'81, LLD'07, Halifax, N.S., on Nov. 2, 2015

**FRANK RUDOLPH GRONICH**, LLB'80, St John's, N.L., on April 18, 2015

**RAJAN RAI**, BComm'81, Dartmouth, N.S., on Oct. 27, 2015

**GLORIA BROWN**, BN'82, Halifax, N.S., on Sept. 21, 2015

**PETER HARRIS VAN FEGGELEN**, BA'85, LLB'88, Head of St Margarets, N.S., on Nov. 12, 2015

**STEPHEN CRAIG ZINCK**, BSc'85, MBA'87, Halifax, N.S., on Nov. 26, 2015

**JOHN KENDRICK MACDONALD**, DPA'86, LLB'89, Tatamagouche, N.S., on Oct. 31, 2015

**ELIZABETH ANNE JONES**, MLIS'87, Halifax, N.S., on Aug. 20, 2015

**BERNICE MAE SHEPPARD**, BN'87, Lower Sackville, N.S., on Nov. 19, 2015

**CHRISTOPHER THOMAS MICHAEL**, BSc'90, Bedford, N.S., on Aug. 31, 2015

**GLENDA MARIE COTTON**, BScN'91, Arichat, N.S., on Aug. 16, 2015

**DAVID CHARLES FRY**, LLB'98, Halifax, N.S., on Oct. 22, 2015

**SHARON MARIE KELLOWAY**, MSW'98, Glace Bay, N.S., on Dec. 7, 2013

**KOREEN D REID**, DDH'98, Whitby, Ont., on June 6, 2014

**GABRIEL R SAULNIER**, BSW'00, MSW'01, Lower Sackville, N.S., on Aug. 27, 2015

**MARGARET ANN MARIA MCFARLANE-LEWIS**, MLIS'03, Lawrencetown, N.S., on Sept. 10, 2015

**LEANNE MICHELLE MCINTYRE**, BSW'10, Cleveland, N.S., on Aug. 10, 2013





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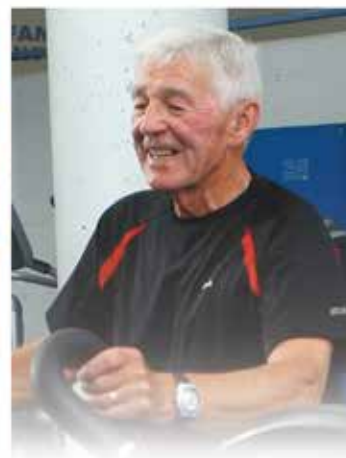
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**DALPLEX**

# DAL DNA: SUSTAINABILITY

For over 40 years, through progressive policies, programs and day-to-day changes in behaviour, Dal faculty, staff and students have been evolving and improving our culture of sustainability. By Stefanie Wilson

**2010**

The DREAMS (Dalhousie Research in Energy, Advanced Materials and Sustainability) project is created by researchers associated with the Dalhousie Institute for Research and Materials to provide an interdisciplinary opportunity for students to work alongside faculty on sustainability-focused projects.

**2012**

Dalhousie's Mona Campbell building becomes the first university building in Atlantic Canada to become LEED® Gold certified.

**2013**

Dalhousie passes a policy to reduce the university's paper use, reduce the number of single-use printing devices on campus and move to 100% post-consumer for the university's base paper.

**2015**

Dalhousie receives a GOLD rating from the Association for the Advancement of Sustainability in Higher Education for Dal's sustainability performance.

**1973**

Biologist F. Ronald Hayes forms the Institute for Environmental Studies, which in 1986 becomes the School for Resource and Environmental Studies, as it's known today.

**1991**

Representatives of 33 universities from 10 countries meet with business, government and NGO leaders in Halifax to discuss the role of universities regarding the environment and development. The Halifax Declaration, which expresses dismay about widespread unsustainable environmental practices, is released at the conference's conclusion.

**1999**

Dalhousie signs the Talloires Declaration, a ten-point action plan for incorporating sustainability and environmental literacy in teaching, research, operations and outreach at colleges and universities.

**2003**

Dalhousie Food Services removes polystyrene foam containers from all residence dining halls and retail locations. Since then, Food Services has introduced many sustainable programs, most recently, committing to purchasing local and sustainable seafood (Dal was the second university in Canada to receive Marine Stewardship Council Chain of Custody certification).

**2005**

The Faculty of Agriculture establishes the "Agricultural Sustainability" project with Jimma University in Ethiopia. The relationship continues through a federally funded, \$18-million, Dalhousie-led project in Ethiopia.

**2008**

The newly founded College of Sustainability launches the Environment, Sustainability & Society major, the first program of its kind in Canada. In 2009, UNESCO recognizes it as an example of Good Practice in Education for Sustainable Development.

**2010**

The Dalhousie University Climate Change Plan commits to the goal of reducing greenhouse gas emissions by 50% by 2020. Dal is currently on track to meeting the goal of a 20% reduction by 2016.

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