

DAL MAGAZINE

SPRING 2021

INSIDE:
Knowledge
sharers
Power play
6 activity
boosters



CONNECTORS

Dal's new directors of African Nova Scotian and Indigenous community engagement in conversation with the vice-provost, equity and inclusion.

LEFT TO RIGHT:
Jalana Lewis,
Dr. Theresa Rajack-Talley,
Catherine Martin

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POWER PLAY Dr. Jeff Dahn, a global leader in battery research, is a recipient of a lengthy list of top science prizes and awards. And for thousands of undergrad students, he's the first-year prof who makes physics understandable—and fun. By Ryan McNutt *page 26*



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RIPPLE EFFECT Universities are engines of knowledge, fueling insight into some of the world's most complex and pressing topics. Dal faculty members are sharing their knowledge beyond the boundaries of their classrooms and research labs. By Matt Reeder *page 32*



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All photos were captured pre-pandemic or taken following public health safety guidelines.

DALHOUSIE UNIVERSITY **DAL MAGAZINE** SPRING 2021

Cover photography by Nick Pearce

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EDITOR'S LETTER

Reaching out by Kim Pittaway

STEREOTYPES ABOUT academic isolation abound: town and gown, ivory towers, the walled university. But universities have never been walled-off gardens from the rest of society, less so now than ever: connections to the communities that surround universities are essential for growth, cross-pollination of insights and to ensure what blooms within has relevance without.

We continue as a province, country and globe to cope with the effects of COVID-19 but it remains perhaps truer than ever that our collective health and development is best supported through our connections to each other and our communities. In this issue of DAL Magazine, we explore and celebrate the many ways that the university reaches out and welcomes in. In the pages that follow, you'll find examples of community impact in "Ripple effect" (p. 32); a conversation about building stronger bridges between Dal and communities that have faced and continue to face challenges in access in "Community connectors" (p. 22); and a profile of a professor whose commitment to classroom teaching continues to inspire and engage in "Power play" (p. 26).

We encourage you to stay connected to us as well, by submitting a Class Note (email classnotes@dal.ca), by sharing your thoughts on our content (email editor@dal.ca)—and by sharing the stories you see here with others (you can find our content online at dal.ca/dalmag).

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**DALHOUSIE
UNIVERSITY**

Recognizing excellence

Two researchers from Dalhousie's Faculty of Science and Faculty of Medicine are being presented with a regal honour. Dr. Jeff Dahn of the Department of Physics and Atmospheric Science and Dr. Kenneth Wilson of the Division of Plastic Surgery have been appointed to the Order of Canada: Dr. Dahn as an Officer, Dr. Wilson as a Member. They were among the 114 new appointments to the Order announced in December by the Governor General of Canada. As well, Dal alum B. Denham Jolly (Diploma in Engineering '58 from Nova Scotia Agricultural College, now Dal's Faculty of Agriculture), was appointed a Member "for his contributions to the promotion of equity and opportunity within the Greater Toronto Area's Black community."

Two Dalhousie alumni also recently joined the ranks of the outstanding and dedicated individuals recognized with the Order of Nova Scotia: Shawna Y. Paris-Hoyte (BA'78, LLB'94, BSW'01, MSW'03) and the Honourable Dr. Donald Oliver (LLB'64, LLD'03) were announced as

recipients of the Order of Nova Scotia in November. Dr. Oliver of Wolfville is a human rights activist, lawyer, and former Canadian senator. Born in New Glasgow and raised in Truro, Paris-Hoyte has made significant contributions to social justice and law, in addition to her efforts as a social worker and educator. —*Michele Charlton and Sarah Sawler*

New Dal Board chair

Bob Hanf (LLB'89) is the new chair of Dalhousie's Board of Governors. Hanf has served on Dal's Board since 2013 and has chaired both the Academic & Student Affairs Committee and the Community Affairs Committee during that time. Most recently, he took over as interim chair. His new appointment makes him the Board's permanent chair through to the end of June 2023.

"It feels monumental to me, personally," says Hanf of being asked to chair the Board of his alma mater. "I'm the first person in my family to go to university. I've benefitted a great deal from having graduated from Dal Law and this is another way I can give back to the university and the broader community. I'm truly quite humbled."

An accomplished executive leader, Hanf retired last year from Emera after having spent nearly 20 years in senior roles in its group of companies, most recently as the company's executive vice-president, stakeholder relations and regulatory affairs. Hanf, who lives in Halifax with his partner, also has a lengthy list of community roles that he's partaken in, including work with St. Andrew's United Church Council, the IWK Health Centre and the Hospice Society of Greater Halifax.

"In my time working with Bob, his commitment to supporting Dal's students and furthering the university's impact in our local communities and around the world shine through," said Dal President Deep Saini at the time of Hanf's appointment. "I look forward to continuing our work together on many

exciting opportunities that lie ahead for Dalhousie University." —*Ryan McNutt*

New federal funding for vaccine work

In November, the Honourable Navdeep Bains, Minister of Innovation, Science and Industry, announced close to \$28 million in research infrastructure support through the Canada Foundation for Innovation's (CFI) Exceptional Opportunities Fund. The funding, which covers the urgent need for equipment for ongoing research related to COVID-19, will support 79 projects at 52 universities and research hospitals, colleges, polytechnics and CÉGEPs across Canada.

One of the funded projects is being led by researchers at Dal, the



Bob Hanf (LLB'89), new chair of Dalhousie's Board of Governors.

IWK Health Centre and the QEII Health Sciences Centre, who have received \$1.2 million to advance the development of new COVID-19 vaccines with upgrades to the Canadian Center for Vaccinology's level-3 containment facility at the IWK Health Centre. This will allow them to create models of COVID-19 to test the efficacy of vaccines, learn why people develop different degrees of severity of the disease, and produce new tests to determine at the earliest stages of infection who may be hit the hardest.

"This is a great opportunity to enhance the basic research and clinical research capabilities to conduct valuable work on COVID-19 by growing the SARS-CoV-2 virus, studying models of COVID-19 severe infections, monitoring clinical biomarkers of severe COVID-19 disease and identifying COVID-19 vaccine responses in people," says Dr. David Kelvin, professor in Dal's Faculty of Medicine and project leader. —Michele Charlton

Dal's 92nd Rhodes Scholar

Sierra Sparks has spent the past four years at Dalhousie as an enthusiastic and committed

engineering student and member of her academic community. Whether it's advocating for diversity in her field or supporting her fellow students academically and within Dal's administration, Sparks has been a beacon of inspiration for her peers, her professors and people across the Dal community. Now, her enthusiasm is about to go transatlantic, with the aid of one of the world's most prestigious student awards: the Rhodes Scholarship.

"She is a complete student, an impressive individual and a role model for many to follow," says Dr. John Newhook, dean of the Faculty of Engineering. "Sierra has continually and consistently demonstrated outstanding academic performance, but equally impressive is her level of engagement and passion as a student leader within Dalhousie and at a national level."

Being a Rhodes Scholar is a life-changing opportunity: a fully paid scholarship covering travel, study and expenses for two years (with an option for a third) at the University of Oxford in England. There are just over 100 Rhodes Scholars selected each year from across the globe. In Canada, only 11 students each year are chosen based on criteria that



spans academics, extracurriculars, leadership and community impact.

Sparks becomes Dalhousie's 92nd Rhodes Scholar—a number that exceeds all but a small handful of schools in North America, and an area in which Dal competes with the likes of Princeton, Stanford, McGill and U of T.

—Ryan McNutt

Award-winning architecture

Run by partners and Dal alumni Jane Abbott (MARCH'06) and Alec Brown (MARCH '93), Abbott Brown Architects is the recipient of two Lieutenant Governor's Awards of Merit for Excellence in Architecture.

One award, in the large building category, is for the renovation of Dartmouth's Zatzman Sportsplex in collaboration with Diamond Schmitt. The other, in the small building category,

Sierra Sparks is "a complete student, an impressive individual and a role model," says Faculty of Engineering dean Dr. John Newhook.

is for the renovation of Dartmouth's Alderney Gate pedway. Both projects are part of the firm's growing portfolio of celebrated efforts to revitalize and rejuvenate the infrastructure in the area.

Increasingly, progressive cities are looking to create more vibrant, liveable downtowns. Architects are recognizing renovation as a powerful tool to activate older public buildings and urban spaces. For Abbott Brown, the focus on renovation runs parallel to other new-build design projects but it is an area of expertise which they wholeheartedly embrace. "For us it is less about whether the project is a new build or a renovation itself," says Abbott. "It is most important that the project be considerate of quality urban design and that it be sustainable."

—Anne Swan

Portia White prize winner

Dr. Afua Cooper's distinction as a scholar and poet now includes one of Nova Scotia's top artistic awards. At the 2020 Creative Nova Scotia Awards gala held digitally in November, Dr. Cooper—a professor in the Faculty of Arts and Social Sciences' departments of History and Sociology and Social Anthropology, with cross-appointments to Gender and Women's Studies and the Faculty of Graduate Studies—was awarded the Portia White Prize, which recognizes “cultural and artistic excellence of a Nova Scotian artist who has attained professional status, mastery and recognition in their discipline over a sustained career.”

“I feel so honoured because it recognizes my body of work,” says Dr. Cooper. “Often times when you're working, creating, you do so in isolation. Sometimes you don't even know if the work makes sense. So for the community to say, ‘yes, it makes sense, we honour it, we appreciate it,’ it reinforces that I'm on the right path... [that I'm] using my writing and my art to bring beauty, to bring joy, to bring knowledge and understanding to the

world. I feel tremendously honoured and grateful.”

The award is named for Portia White, the African Nova Scotian vocalist and Dal alumna who rose to international acclaim as a classical vocalist in the 1940s. —Ryan McNutt

Making Dal barrier-free

Nova Scotia has designated 2030 as its goal of becoming barrier-free for individuals with disabilities and other accessibility challenges such as deafness or neurodiversity. Dalhousie, like other post-secondary institutions, has an important role to play in this ambitious undertaking. Designated by the province as a “public body,” Dal is required to craft a comprehensive accessibility plan that specifies the removal of barriers to participation in each of the following areas: the built environment, delivery and receipt of goods and services, information and communication, education, employment, and transportation.

“There are so many dimensions to accessibility that we know we need to address, and that goes well beyond the physical state of our buildings,” says Susan Spence, Dal's vice-provost of planning

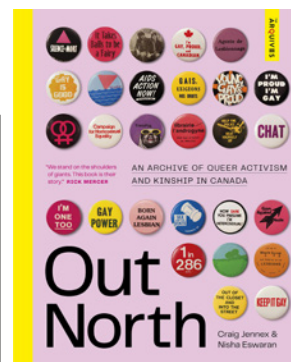
and analytics and lead on the university's accessibility planning.

To tackle this, Dal has established an integrated framework that will enable collaborative work across the university to develop, monitor and continually improve its accessibility plan based on provincial standards now being developed. Planning is already in full swing at Dal, says Spence. An accessibility advisory committee and steering group are up and running, with a core project team and six working groups set up to take on planning around the province's priority areas—work that will then be folded up into an overall plan for the university. A new website has also been set up with details about the working groups, terms of reference and other resources.

—Matt Reeder

Book taps LGBTQ2+ archives

Craig Jennex (BA'10) didn't expect his music undergrad to set him on a path towards becoming a scholar of the culture, politics and history of gender and sexuality in Canada. But he credits studying popular music with Jacqueline Warwick in the Fountain School of Performing Arts with



Out North shares items from the collection of Canada's LGBTQ2+ archives to illustrate the story of LGBTQ2+ politics in Canada.

inspiring him to think differently about his studies.

“[Her] courses on popular music, gender, and sexuality showed me how exciting and important it is to think about queer and feminist histories in order to understand how we got to where we are now,” says Dr. Jennex, now an assistant professor in English at Ryerson University in Toronto.

His recent book *Out North: An Archive of Queer Activism and Kinship in Canada* is co-authored with Nisha Eswaran and shares items from the collection of The ArQuives: Canada's LGBTQ2+ Archives to illustrate the story of LGBTQ2+ politics in Canada.

“Nisha and I dug through the archive and chose exciting materials that allow us to tell a story of LGBTQ2+ community and politics in Canada,” he says. “It was sort of a dream project—we spent

about a year exploring the collection and deciding what we wanted to feature. We got a lot in the book, but we've barely scratched the surface of the collection and of these histories." Founded in 1973, The ArQuives has grown to become the largest independent LGBTQ2+ archive in the entire world. Its collections include books, archival papers, artifacts, photographs and art related to LGBTQ2+ life in Canada. —*Janet Dyson*

New director for IB&M Initiative

In mid-2020, Kelsey Jones (LLB'14) became the new director of Schulich Law's Indigenous Blacks and Mi'kmaq (IB&M) Initiative. A graduate of the program, Jones' last role was as the African Descent Student Affairs Coordinator at St. Francis Xavier University (StFX). Prior to her time at StFX, Jones articulated with the Nova Scotia Department of Justice in Halifax and held roles with the Canadian Red Cross and the CBA Young Lawyers International Program. In addition to her JD, she holds a BA in Political Science from Dalhousie and a Master's in Education, Administration and

Leadership from StFX.

"I am looking forward to meeting incoming and current IB&M students and getting to know their future ambitions," says Jones. "I am eager to implement the various academic and cultural supports that will help them reach their goals and see them reach their fullest potential. I want IB&M students to know that there is someone dedicated to their success as they traverse law school and the legal profession."

—*Trudi Smith*

Fountain goes digital

What happens to all of the moments we choose to forget? To the issues we would rather ignore? The parts of ourselves that we want to turn away from? Where do they go?

The Fountain School of Performing Arts' first show of the 2020-21 season, Jordan Tannahill's *Concord Floral*, asked these questions both of its audience and its own characters as the first ever online show conceived through the Fountain School. The show was streamed online, free of charge, for a week in October.

With all of Dalhousie transitioning to online learning last Fall, the Fountain School adapted

quoted.

Dal Experts in the news



GLOBAL NEWS | Two shots. A waiting period. Why the coronavirus vaccine won't be a quick fix

"It's completely understandable to have enthusiasm, but this is not going to be instantaneous."

—*Dr. Alyson Kelvin, Faculty of Medicine*

CBC | Scale of Sipekne'katik fishery won't harm lobster stocks, says prof

"I recognize and I empathize with the commercial fishing sector that this seems like a conservation risk. I don't think it is. I don't think the science would support that."

—*Dr. Megan Bailey, Faculty of Science, Marine Affairs Program*

CTV | Canadian families will pay up to \$695 more a year for groceries in 2021, reports says

"We don't expect a break at the grocery store any time soon. This is the highest increase that we've ever expected."

—*Dr. Sylvain Charlebois, Agri-Food Analytics Lab*

its programming online with creativity and enthusiasm. This new format has presented the cast and crew with countless challenges, but also unique opportunities and chances to explore new methods of performance and production. “[We’re learning] how to invent in this medium and keep it really interesting for ourselves,” says director Ann-Marie Kerr.

Machinal, the second production of the Dal Theatre 2020-21 season, was pre-recorded and available to view for free as a private Vimeo link for audiences in December. Though Sophie Treadwell wrote the play nearly 100 years ago, its underlying themes are as relevant as ever: in a pandemic-ravaged world, a young woman grapples with her increasing sense of alienation as a result of the encroachment of technology into daily life.
—Molly Somers and Hannah Whaley

Students take top scholarships

Ella MacDonald is one of the many university students that lost their jobs due to the impact of the COVID-19 pandemic. This caused her extra worries about how she would fund her final year


of studies in the Fountain School of Performing Arts Theatre program.

So when she received an email from the Hnatyshyn Foundation notifying her that she was one of the seven young Canadian performing artists to receive a grant of \$10,000 to pursue their studies for the 2020-21 academic year, to say she was excited is an understatement.

Another Dal student, Dr. Henry Annan (MD’18), will be furthering his education thanks to the prestigious Chevening Scholarship, a United Kingdom government funded program that targets future leaders. Recipients of the scholarship are personally selected by British embassies and high commissions throughout the world.

As he nears the start of his own independent practice, Dr. Annan is taking time away from his residency to complete the Master of Public Policy (MPP) program at Oxford University.

—Genevieve MacIntyre and Jason Bremner

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found.

Archiving Dal's history

DALHOUSIE COLLEGE AND UNIVERSITY, HALIFAX.

SESSIONAL EXAMINATIONS, 1869.
TUESDAY, APRIL 20, 9 A.M.—1 P.M.

RHETORIC.

PROFESSOR DEMILL, M.A. Examiner.

1. Give the derivation of the word "Rhetoric," together with its earliest application; and show how it was afterwards modified. Define and illustrate Grammatical Propriety;—Style Periodique;—Style Coupe. Give examples of good and faulty use of Parentheses.
2. Criticise the following passage:—
"Read not to contradict and confute, nor to believe and take for granted, nor to find talk and discourse; but to weigh and consider. Some books are to be tasted, others to be swallowed, and some few to be chewed and digested;—that is, some books are to be read only in parts; others to be read, but not curiously; and some few to be read wholly, and with diligence and attention. Some books also may be read by deputy, and extracts made of them by others; but that would be only on the less important arguments, and in the meaner sort of books; else, distilled books are like common distilled waters,—flashy things."
3. Give an example from any author of faulty Repetition. State the relative importance of Strength of Expression; to what department of Style it belongs; and why. Define and illustrate Interrogation, Exclamation, and Hyperbaton.
4. State the chief characteristics of the style of Clarendon, Emerson, and Macaulay. Give an example from each, with remarks.
5. Give a brief historical sketch of Satire. Define the Pathetic. Enumerate the writings most conspicuous for this quality in Ancient, Mediæval, and Modern times.
6. Enumerate the different divisions of Arguments. Explain and illustrate the Argument from Probability. Show the difference in the use of this in Argumentative works, and in works of Fiction. Illustrate the ambiguity in the use of the word "because" in statements expressing Cause, or Sign. Explain the difference between Analogy and Similarity,—Contraries and Dissimilarity.
7. Frame an analysis of the subject—The Rotundity of the Earth—so as to introduce the following arguments:—
 - a. Induction.
 - b. Undesignated Testimony.
 - c. Concurrent Testimony.
 - d. Experience.
8. State the different theories respecting the probable language of Britain at the time of the Teutonic invasion. Give the divisions of the Celtic class of languages. Give examples of Celtic words which have been incorporated with English. Give dates of the following periods in the growth of the English language; and name the chief representatives of each period:—Anglo-Saxon,—Semi-Saxon,—Old English,—Middle English.
9. Enumerate the different classes of Alphabets and state to which class the English belongs. Explain and illustrate the different stages in the growth of Alphabets. Define and illustrate simple, complex, and compound sentences. Give Morrell's five fundamental laws of Syntax.
10. Mention all the known kinds of versification. State the different theories as to the origin of modern rhyming verses. Explain and illustrate the nomenclature of English metres. State generally the law of Rhyme.

Are you smarter than a fifth grader? How about a first-year student in 1869? This exam, like others, was printed as an appendix in the university calendar, a practice that acted as a public assurance of Dalhousie's academic credibility. Daily classes in rhetoric, classics and mathematics made up the first-year curriculum, followed in second year by the addition of chemistry, logic and psychology. If you made it to your third year, you could expect to continue with mathematics and classics, and tag on additional classes in experimental and mathematical physics, metaphysics, Greek or chemistry, and French or German. Fourth-year students had a slightly reduced class load, which included astronomy, experimental physics, Latin, ethics, political economy, history, and French or German. Professor James DeMille, the examiner, was rigorous in his belief that the study of rhetoric was central to education, both to cultivate a pure love of study and to train students in the more utilitarian arts of elocution and persuasive argument. Out of the 13 undergraduates enrolled in his class in 1869, only eight passed the exam. You have four hours. Time starts now.

—Jennifer Lambert

1869 first-year rhetoric exam

See other examples of past exams online at dal.ca/dalmag

RESEARCH ROUNDUP

by Alison Auld and Michele Charlton



A Caribbean reef shark is captured on camera as part of the Global FinPrint study.

Science

Disappearing sharks

An ambitious project that allowed researchers to peer into the world's oceans over several years provided a grim assessment of global reef shark populations: sharks were absent on many reefs, indicating they are too rare to fulfil their normal role in the ecosystem and have become "functionally extinct." Dr. Aaron MacNeil, an associate professor at Dalhousie and lead author of the *Nature* paper, says this first-ever benchmark study shows an alarming loss of an apex species that is a vital food resource, tourism attraction and top predator on coral reefs. Their decline is due in large part to overfishing and the use of destructive fishing practices.

RESEARCHERS: Dr. Aaron MacNeil, Faculty of Science; researchers from 80+ institutes and universities

Medicine

Learning from COVID-19

COVID-19 has killed more than a million people around the world, infected millions more and destabilized life as we know it. But scientists are exploring whether there could be a potential benefit to the deadly virus. Dr. Shashi Gujar, with Dal's Department of Pathology, is examining whether the body's immune response to SARS-CoV-2 could be repurposed to kill cancer cells. When infected with a pathogen, the body's immune system activates T cells, which act in a highly precise manner and kill only virus-harboring cells. The T cells generated in response to the viral infection remain in the body for a long time and Dr. Gujar and his scientific partners believe these virus-specific T cells could be redirected to go after cancer cells.

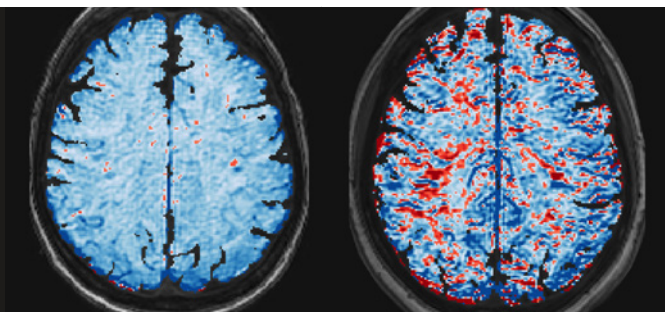
RESEARCHERS: Dr. Shashi Gujar, Medicine

Social Work

Supporting the homeless

During the COVID-19 global pandemic, those who find themselves homeless are potentially among the most vulnerable to the spread of the virus. Citizens have been asked by federal and provincial governments under states of emergencies to "stay home" to stop the spread of COVID-19, but what happens when there is no home to go to? Dr. Jeff Karabanow is exploring the impacts of COVID-19 on individuals experiencing homelessness and the responses by both informal and formal systems to support the needs of these individuals, and how these systems will move forward in disaster recovery. This study will significantly contribute to the examination of how the pandemic has impacted homeless populations.

RESEARCHERS: Dr. Jeff Karabanow, School of Social Work



Leaky blood vessels in the brain could be related to impaired cognitive function in people with lupus.

Medicine

Lupus 'brain fog'

Scientists at Dal have gained new insight into why roughly 40 per cent of people with lupus lose certain cognitive functions, such as memory and the ability to concentrate. Using a brain imaging technique, they found that lupus patients with leaky blood vessels in the brain were twice as likely to have impaired cognitive function, compared to those with non-leaky blood vessels. The discovery involves the blood-brain barrier—the lining of the brain's blood vessels that blocks harmful substances from entering the brain. When that barrier leaks, foreign molecules can seep from the blood vessels into the brain and trigger inflammation that can undermine brain function. The authors of the report say the research could lead to a new generation of treatments.

RESEARCHERS: L. Kamintsky, S.D. Beyea, J.D. Fisk, J.A. Hashmi, A. Omisade, C. Calkin, C. Bowen, A. Friedman, & J.G. Hanly

Medicine

New CF drug

New research out of Dalhousie University, St. Michael's Hospital, and the Hospital for Sick Children forecasts that delaying access in Canada to a new cystic fibrosis (CF) therapy known as Trikafta could result in avoidable death. Trikafta is a combination of three medications that could potentially help 90 per cent of the CF population in Canada because it is designed to target and modify the most common CF mutation. The study showed that making Trikafta available in 2021 would result in 60 per cent fewer people with severe lung disease, an 18 per cent increase in people with mild lung disease, and 19 per cent fewer chest infections by 2030, compared to if the drug was not made available.

RESEARCHERS: Dr. Sanja Stanojevic, Faculty of Medicine; Dr. Anne Stephenson, St. Michael's Hospital

Agriculture

Chickens help against COVID-19

Researchers at Dal's Atlantic Poultry Research Centre helped in the production of antibodies against COVID-19 that could be used in a device used to test for the virus. The Faculty of Agriculture in Truro, N.S., collaborated with AffinityImmuno Inc., in Prince Edward Island—one of the first laboratories to manufacture antibodies against the novel coronavirus. Dozens of birds were injected with the virus protein carried by an adjuvant designed to stimulate a strong immune response in the birds. The eggs from the injected chickens were sent to AffinityImmuno Inc., where the antibodies were successfully harvested from the yolks.

RESEARCHERS: Dr. Bruce Rathgeber, Faculty of Agriculture



The Faculty of Agriculture collaborated with AffinityImmuno Inc. to harvest coronavirus antibodies developed in eggs.

read.watch.listen.

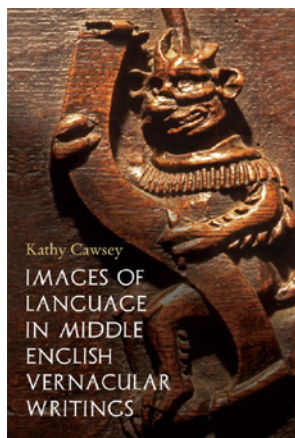
Dal alumni and faculty share their books, television shows, films, webinars and podcasts.



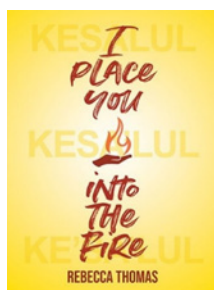
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1 PODCAST

Sciographies

WITH DAVID BARCLAY

Sciographies, a podcast and radio show produced by the Faculty of Science and hosted by Dr. David Barclay, an associate professor with Dalhousie's Department of Oceanography, introduces listeners to the stories behind Dalhousie scientists.

2 BOOK

Black Matters

BY AFUA COOPER AND WILFRIED RAUSSERT

Dr. Afua Cooper of the Departments of History and Sociology & Social Anthropology, and photographer Raussert, collaborate in this book of poems and photographs focused on everyday Black experiences.

3 BOOK

Images of Language in Middle English Vernacular Writings

BY KATHY CAWSEY

Dr. Kathy Cawsey, faculty member in the Department of English, explores the use of images in Middle English texts, tracing out what can be deduced of a theory of language.

4 BOOK

I Place You Into the Fire

BY REBECCA THOMAS (BA'09, MA'13)

The first collection of poetry from former Nova Scotia poet laureate Rebecca Thomas, *I Place You Into the Fire* explores what it means to be a second-generation residential school survivor and is a call for Indigenous justice and empathy.

5 BOOK

A Guide to Going Green

BY HANNAH SOLWAY

This eight-chapter guide to making eco-friendly choices began as a undergraduate Conservation Biology class assignment completed by Hannah Solway and ended up as an e-book, available from Amazon.

6 PODCAST

DLJ

The Dalhousie Law Journal (*DLJ*) podcast series is hosted by student editors and features conversations with researchers on the forefront of Canadian law. Topics tackled include the issues of decarceration, corporate responsibility for climate change, and harm prevention.

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events.

Leading by example

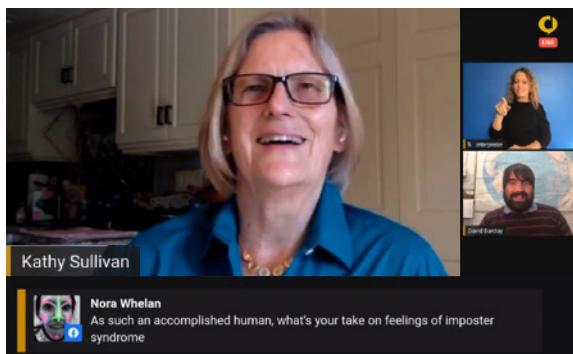
The second season of Open Dialogue Live kicked off in September with Faculty of Engineering alumnus and entrepreneur George Armoyan who hosted a talk on the power of mentorship and the importance of empowering the next generation of entrepreneurs.



George Armoyan



Deep Saini



Kathy Sullivan

Nora Whelan

As such an accomplished human, what's your take on feelings of imposter syndrome

In-depth discussions

Open Dialogue Live and Sciographies teamed up in October to welcome NASA astronaut and ocean explorer Dr. Kathryn Sullivan (PHD'78, LLD'85). Dr. Sullivan shared how she became an astronaut as well as insight into her three space missions and her most recent adventure to the Challenger Deep in 2020.



Neighbourly relations

Just days before the U.S. election, experts from the Faculty of Arts and Social Sciences discussed how the election outcome could impact Canada and the larger effect of American politics on gender, race, class issues, immigration and journalism.

AND MORE!

Celebrating a milestone

In November, the Dallaire Institute for Children, Peace and Security hosted a virtual celebration for their 10th anniversary at Dalhousie. Guests from around the world joined to share their views on the institute's contributions and impact over the last decade.

Montreal alumni reunion

In December, Montreal Law Chapter president Nathalie Goyette hosted a virtual reunion for alumni in the Montreal area. It was a chance to meet new classmates and share memories of their time at Dal.

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See the latest events listings:

Upcoming alumni events:
alumni.dal.ca/events
Dalhousie Arts Centre:
dal.ca/artscentre and
click on "Upcoming Events"
Fountain School of Performing Arts:
dal.ca/performingarts and
click on "Our Season"


Sydney Breneol, Nursing PhD Candidate

It was in January of 2010 that I found a lump underneath my right jaw. I was in Grade 10. I had the whole tumour surgically removed from under my jaw. Once I had the surgery, I was referred to the IWK because at my home hospital in PEI they were pretty certain from what they could see that it was cancerous. Within a couple weeks, I started chemo and I was diagnosed with Burkitt's lymphoma, which is a form of non-Hodgkin's lymphoma. This year marks 10 years since my diagnosis.

I had an amazing group of friends that stuck by me. They would come over to Halifax every weekend that they could. I have no idea what I'd do without them, my mom, and my whole family. Even the community in PEI did a lot of fundraising for me. They knew my mom was a single parent. They showed me they were there if I needed anything at all.

When I came over to do my Master of Nursing, I knew I wanted to do work at the IWK. I definitely felt a strong draw. My original research proposal, when I was writing it up to apply to Dal, was all about that reintegration piece. How do you reintegrate into your life post cancer? Once I got over here, my supervisor was doing research around children with medical complexity and that transition from hospital to home and how we can better support them in their home communities. It was a perfect fit and that's what I've been doing ever since: focusing on the services needed to help these individuals and families thrive in their communities and homes.

"I had an amazing group of friends that stuck by me. They would come over to Halifax every weekend that they could."

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PEOPLE

ALISHA POSTMA (BSC'12) is a scuba diver, underwater photographer and author who loves to dive into a day of adventure and deep-sea exploring.

24 HOURS

6:00 A.M. Beep, beep. It's an ungodly hour of the morning and while I'd love to stay in my warm bed, one of my favourite shore diving sites on the Bay of Fundy calls. My workday actually started the previous evening, long before my alarm was set to ring, as I sorted through dive gear and camera equipment in preparation for dive day.

6:30 A.M. From leggings to my polar fleece onesie, I sometimes feel more like the Pillsbury Doughboy than an actual scuba diver in my thermal gear. But I will need every layer to keep my body warm against the cold waters.

7:15 A.M. On Deer Island, the site of the largest tidal whirlpool in the Western Hemisphere, it's not about being early—or late. It's about being smack-dab on time. Here the tides are no joke and can go from lazy river to rip-roaring in the blink of an eye. It takes knowledge and experience to dive this area. Wading out into the water, my husband and I are keen to commence our dive prior to slack tide.

7:30 A.M. Taking the first breath in my regulator, I drop down into the Bay of Fundy with a splash. Right away, I spy urchins and crabs scampering across the rocky bottom. Kicking away from the entry point, we navigate to a cascading wall

with heaps of anemones and sea peaches. I also glimpse some of my favourite photography subjects: nudibranchs.

8:00 A.M. I'm at the midpoint of my dive. I can feel the push of the current as the tide turns and begins to drive me back towards my entry point. In less than one hour this gentle push will have turned into a ferocious flow. Letting myself succumb to the tide, I backtrack. I see brilliant red anemones and sea stars galore—even an itty-bitty spiny lumpsucker. It's enough to make me squeal into my regulator.

8:30 A.M. My dive buddy and I remove each other's fins and hobble, chilled, to the shoreline. While our time underwater was limited, there are few places in New Brunswick that match the scuba diving thrills of this location.

10:30 A.M. After breaking down our gear, we waste no time making a beeline for the ferry. It will take just over an hour to travel to the mainland. We'll spend the rest of the day visiting and photographing another dive site—one less dependent on tidal fluctuation. Then we'll prepare for tomorrow's travels, heading to Nova Scotia to photograph and dive Canada's ocean playground.



TOP: Joey and Alisha Postma with their recently published educational colouring book, *Sharks, Turtles and Underwater Things*. MIDDLE: A close-up of a sea anemone. BOTTOM: A small purple spiny lumpsucker.



SPOTLIGHT

Glori Meldrum's book *Warrior* is an inspiring account of overcoming childhood abuse and building a world-class treatment centre for kids who have been sexually abused. All proceeds support Little Warriors.

GLORI MELDRUM

(BCOMM'95) has created a safe haven for victims of child sexual abuse at long-term treatment centre Little Warriors Be Brave Ranch.

Nestled on 120 acres just outside Edmonton is a ranch with a camp-like feel, with spaces dedicated to art, Indigenous heritage, music, play and yoga, along with cabins and communal areas for meals and celebrations. It's the Little Warriors Be Brave Ranch—a specialized long-term treatment centre that provides child sexual abuse survivors and their families with dedicated programming and therapy. And it's a dream come true for Glori Meldrum (BComm'95), a survivor of child sexual abuse herself.

"Since university I wanted to create something that provided access to support and healing for children and their families

who faced the same fate that I did," says Meldrum, noting that she was not afforded these types of crucial resources as a victim of abuse at the hands of a family member.

In 2008, Meldrum founded Little Warriors, a non-profit organization that focuses on trauma-informed, science-backed treatment and prevention. Since then, the Little Warriors Be Brave Ranch has forged new standards for child sexual abuse treatment, with children coming from all over Canada to participate in their intensive therapeutic programs. Staffed with leading academics and doctors, to date more than 400 families have received support from the Be Brave Ranch clinical team.

"From the outset of developing our programs, we have partnered with researchers at the University of Alberta for ongoing evaluation and quantitative data analysis," says Meldrum. "Leading the way forward with science-backed clinical care ensures child sexual abuse survivors and their families can receive the best treatment available today."

A clinical trial performed at the Little Warriors Be Brave Ranch showed that a four-week intervention program there reduced the psychological impacts of child sexual abuse. The results, which were published in the *Journal of Child and Adolescent Behaviour*, measured reductions in symptoms like child post-traumatic stress disorder, anxiety and depression.

An accomplished philanthropist, businesswoman, author and mother of four, Meldrum is also the CEO of g[squared], an advertising and marketing agency in Edmonton that she co-founded with her husband Gary (who she met at Dal). Her work as a community leader and advocate has not gone unnoticed. Some of her honours include being a 2020 National Honoree for L'Oréal Paris' Women of Worth, making Shaw Canada's 50 Most Outstanding Canadians list in 2017, and being a Queen Elizabeth II Diamond Jubilee Medal (2012) recipient.

"I have done a lot of work to heal the broken pieces of myself and what I've learned is that when you do for others, your soul is happier," says Meldrum.

—Fallon Bourgeois



INNOVATOR

“What are the sexual problems that new mothers and fathers are having? How common are they, and are they the same for both parents? It turns out that over 90 per cent of new parents report between 10–16 sexual concerns that are specific to the postpartum period.”

Dalhousie clinical psychologist, sexual health researcher and the scientist behind the Post Baby Hanky Panky campaign, **DR. NATALIE ROSEN** is helping to end the stigma for individuals and couples coping with sexual problems.

INNOVATION: Dr. Rosen is an associate professor with Dalhousie’s Departments of Psychology and Neuroscience and Obstetrics and Gynaecology. Additionally, she directs the Couples and Sexual Health Research Laboratory, a leading research



Postbabyhankypanky.com includes a series of videos to help new parents open the lines of communication about post-baby sexual concerns.

facility for couples’ sexuality in Nova Scotia and around the world. Their studies focus on everything from men coping with low sexual desire to a couple’s journey with fertility treatment.

FOUNDATION: “My research focuses on sexual relationships, particularly during important life transitions, and how couples can maintain sexual satisfaction over time. This research matters because a strong, satisfying sexual relationship is directly linked to people’s overall health and well-being.”

INSPIRATION: “In academia, there is a focus on writing academic papers and presenting at conferences. I wanted to do something different with the data to get the findings into the hands of new parents and the health-care providers who work with them. We developed a series of videos based on our research and launched the Post Baby Hanky Panky campaign (postbabyhankypanky.com) to help open the lines of communication about this topic—it’s not something that new parents talk a lot about. But it’s hugely common for there to be new sexual concerns after having a baby.”

WHY IT MATTERS: “Everyone’s interested in it—it’s a sexy topic—but on the other hand, it’s hard to talk about. Sexual health is still an area where there’s a lot of stigma, and a lot of misinformation still persists. As a scientist, I think it’s our responsibility to correct myths and misinformation.”

—Jocelyn Adams



WHY I GIVE

First granted in 2018, over the 10-year life of the scholarship, \$25,000 is awarded each year to one agriculture graduate student.

DR. DAVID CROWE has funded a scholarship that grows from his love of farming.

Dr. Davide Crowe (XFRF'42) has spent close to a century living, working and studying farming. Through the scholarship he has funded, his influence on farming will stretch well into the future.

The seeds of giving were sown early in Dr. Crowe, taking root when he was an agriculture student on scholarship and growing even deeper in his retirement.

Now 97, he established the Dr. A. David Crowe Graduate Scholarship in 2017. It's the largest and most prestigious scholarship at the Faculty of Agriculture. PhD student Wasitha Thilakarnathna from Sri Lanka has received the renewable scholarship three times.

"Receiving this scholarship was a major milestone of my academic life which enabled me to start PhD studies with confidence," says Thilakarnathna.

Dr. Crowe was raised on a farm in Berwick, N.S. in the 1920s and '30s and enrolled at the Nova Scotia Agriculture College in 1942. He finished his course, enlisted in the navy as a pilot and was deployed to Europe just as the war ended.

After returning to Canada, he completed a further two years of study at the college before going on to graduate studies at Macdonald College (now part of McGill University) and Cornell University.

His area of specialty was plant physiology and Dr. Crowe worked as a pomologist—a botanist studying fruit and its cultivation—at the Kentville Research Centre (now called the Atlantic Food and Horticulture Research Centre).

One of his proudest accomplishments was standardizing apple bins, replacing apple boxes as a superior way to store the fruit. Another was the 14 years he spent going farm-to-farm doing extension work, translating science into practical improvements for fruit growers. His legacy now also includes the scholarship in his name. First granted in 2018, over the 10-year life of the scholarship \$25,000 is awarded each year to one agriculture graduate student who intends to live and work in Atlantic Canada. "When putting that kind of money out, you want to keep it at home," says Dr. Crowe.

Thilakarnathna says it's a "great honour" to have received the scholarship. His research involves extracting proanthocyanidin from grape seeds to see how it affects the liver of mice, with the goal of eventually applying his research findings to the prevention of liver cancer.

The two men met in 2018 and Thilakarnathna still shares his research reports with Dr. Crowe.—*Alison DeLory*



WHY I DO IT

“Dalhousie gave me an opportunity to flourish—academically, in some ways, and in other areas like politics and business.”

The Honourable **SCOTT BRISON** (BCOMM'89) has proudly championed his Dalhousie and Nova Scotia roots throughout his time in politics. Now, he gets to play an even greater role in his alma mater as its eighth chancellor.

HIS BACKSTORY: The Honourable Scott Brison represented the riding of Kings-Hants, Nova Scotia in Canada's House of Commons for nearly two decades, serving in multiple cabinet positions including as President of the Treasury Board. After leaving politics in 2019, he joined BMO

as vice-chair of investment and corporate banking and in June 2020 was appointed as the university's eighth chancellor, succeeding his former cabinet colleague The Honourable A. Anne McLellan.

HIGHLIGHTS: Brison is a Commerce alum who discovered politics and started his first business (renting mini-fridges) during his time at Dalhousie. As one of the first generation in his family to go to university, he's seen first-hand what Dalhousie means to people across the Maritimes who grow up in small communities like his hometown of Chéverie, N.S. “Today, more than ever before, we need strong leaders. I really think Dal plays an important role in helping build the leadership of today and tomorrow.”

WHY I DO IT: The chancellor is a ceremonial position that presides over convocation ceremonies, something Brison has only been able to do virtually during the COVID-19 pandemic. “As much as a video can hopefully convey my passion for Dalhousie and for Dal students, graduates and alumni, I really look forward to being able to do so in person.” He also hopes to follow in the footsteps of his predecessors and find unique ways to contribute to the university, citing a particular interest in education in government and public service. “Dal has a unique opportunity to cross-pollinate across faculties to produce leaders who can understand multiple disciplines including business, government and science. I think strengthening the relationships among faculties is something that can help create a new generation of citizens prepared to lead and to tackle the big challenges.”
—Ryan McNutt

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COMMUN CONNE



JALANA LEWIS

Director of African Nova Scotian community engagement, is a Dalhousie Law graduate originally from north end Halifax who has worked in human rights law as well as with various NGOs, universities and government offices.



THERESA RAJACK-TALLEY

Dalhousie's first vice-provost of equity and inclusion, who joined the university in 2019 from the University of Louisville.



CATHERINE MARTIN

Director of Indigenous community engagement, is a Dal Theatre alumna and member of the Millbrook First Nation who, in addition to being an award-winning filmmaker and producer, has almost 40 years' experience working with Indigenous communities.

ITY CTORS



DALHOUSIE SITS ON unceded Mi'kmaq territory, and is surrounded by African Nova Scotian communities with hundreds of years of history. For decades, programs and initiatives like the Transition Year Program (TYP), the Schulich School of Law's Indigenous Blacks & Mi'kmaq Initiative (IB&M) and others have created pathways for young Mi'kmaq and African Nova Scotians into higher education—important efforts to address longstanding systemic inequities. But gaps remain, and much work still needs to be done.

Recently, the university created two new community engagement roles: one focused on Indigenous communities, the other on African Nova Scotian communities. The individuals hired—Catherine Martin (BA'79) and Jalana Lewis (LLB'13)—are both Dalhousie alumni who have spent their lives dedicated to service, support and making a difference. They work closely with Dal's vice-provost of equity and inclusion Dr. Theresa Rajack-Talley—whose own role is, similarly, a first for Dalhousie. We asked Theresa to host a conversation with Catherine and Jalana about their personal journeys and Dal's responsibility to build connections with Nova Scotia's historic communities.

 This interview has been edited for length. To read the full interview, go to dal.ca/dalmag.

DR. THERESA RAJACK-TALLEY How would you say that your Dalhousie experiences set you on a path towards where you are today?

CATHERINE MARTIN All my life I was very, very shy. I couldn't speak in front of people. I saw at Dal that I could actually apply and get into a Theatre course and I didn't have to audition first. There, I learned a lot about relaxation and how to prepare your fourth wall so that, when you have to be in front of anybody, I could get used to speaking in public. I also met a lot of wonderful people, a lot of artists. I found that being with artists helped shape me and helped me see the world in a very different way, to accept everyone's differences.

JALANA LEWIS I'd never worked as hard as I had in my first year of law school, academically, and when I got my grades I'd never received such low grades before. I realized that working that hard wasn't necessarily the answer. I had to figure out how to take the way that I learned and mould and shape it so that I could do well in this new environment. I came out knowing that if faced with a very challenging situation, I could probably figure things out.

T R-T You've also both lived lives defined by service: giving back, being involved, working towards something bigger than yourselves. Where do you think that drive inside you comes from?


CM I was raised with two wonderful parents—and there was eight of us kids, so you had to have drive. My father raised us to stick up for people, always. My mom taught us always to give, to serve.

I feel like I'm quite privileged in the way I was raised. I wasn't rich, but I was raised by the best people in the world. And so, with that privilege, I feel that I should give some of that back.

JL I would say it comes from my parents as well. I was the kid who was dragged along to all of the community meetings, the church meetings, the meetings in reaction to things that government was doing that were impacting the African Nova Scotian community. So I grew up accustomed to conversations around how can we change this? How can we fix this? How can we respond to this?

T R-T Your positions are both focused on "community engagement." What does "community" and "engagement" mean to each of you?





JL I think engagement, for me, it means maintaining real relationships—listening, sharing, and being a bridge between people. Thinking about what people really need in terms of where they actually are at the time. Engagement needs meaningful relationships, meaningful communication.

I think community can mean so many things for so many different people, but in terms of the African Nova Scotian community, it can be as simple as your last name. You can easily identify a person's historical roots just based on the community they're from or even their last name. You know we share so much of the same history.

CM I often think about community as my family—not just my immediate family, but the Mi'kmaw nation is my community. It means that I have a connection and that I belong. And as is the way of the Mi'kmaq, we all consider ourselves family and related. Community means to accept who you are, how you are, that you meet people where they are at.

That's what I love about the Mi'kmaw community. You're never alone and you're always taken care of. And it's important to engage with community because, otherwise, we're all floating around in our own little bubble. We're not figuring out how all of us are engaged in working together as a greater group and figuring out how to move forward.

T R-T How do you think of Dalhousie's particular responsibility, as a university in Nova Scotia, in relation to Mi'kmaw and African Nova Scotian communities?

JL As an excellent academic institution that continues to grow, continues to thrive, continues to become more of a national and an international school, I think the university has a responsibility to ensure that populations and communities closest to it also thrive and grow with the institution. It would be strange if members of the African Nova Scotian community weren't welcomed, invited, encouraged to be part of that journey, whether that be a students, staff or faculty.

CM Dalhousie has a responsibility to go into the community. The word "outreach" bothers me. That means you're putting your hand way out there, but you're not really going in. We need to go in, and we

need to make the universities truly universal so that people that come from all around the world will be able to find out who we are.

T R-T How do you think Dalhousie today, in terms of its connections and links with Mi'kmaw and African Nova Scotian communities, differs from what you saw when you were each a student here? And where would you like to see it be in five or 10 years?

JL I definitely appreciate all of the work that's happened before me around programs like TYP and IB&M initiative—programs that have changed my life, and the lives of many people around me. For me, a lot of my engagement as a Dalhousie law student, my engagement of the African Nova Scotian community was bred out of student activity and student planning, student activism, and we also see that within staff and faculty as well.

So I hope that students, staff and faculty are supported by administration, by university leadership, to actually do that engagement so it doesn't happen from the side of our desks. I would hope that in five to 10 years it becomes part of the university culture to support students, staff and faculty to engage with the African Nova Scotian community.

CM When I was in university, there was maybe a handful of Mi'kmaw or Indigenous students at Dalhousie University in 1976. We had no faculty, professors, staff. Through the many jobs I've had at Dalhousie, I've seen it change, and I've seen more students come. But I've seen a lot of people come and leave, too. We come with a lot of pain when we come to this university and the experience here can trigger a lot of bad things—things not just our own, but through generations. Ultimately, you have to see yourself here. You have to feel that you're as important and that you are not less than everyone else.

I'd hope that we find a way to be partners and build relationships so that Dalhousie University in five or 10 years has become not just part of the solution but has provided the knowledge that this university has, this incredible knowledge, to help us in what we need as Mi'kmaw communities. It's time to walk with us, beside us, and let go of some of the things that have prevented us from feeling like equal people, equal human beings.



Bernoulli's law at equal elevation

$$P_1 + \frac{1}{2}\rho v_1^2 = P_2 + \frac{1}{2}\rho v_2^2$$

\therefore Pressure is smallest where flow
flows fastest

Precessing bicycle wheel

Torque = rate of change of angular momentum

$$\vec{\tau} = \frac{d\vec{L}}{dt}$$

$$\vec{\tau} dt = d\vec{L} \Rightarrow \text{precession}$$

Dr. Jeff Dahn and PhD student Marc Cormier use a bicycle wheel to demonstrate the concept of precession for Dahn's first-year physics students.



POWER PLAY

Dr. Jeff Dahn, a global leader in battery research, is a recipient of a lengthy list of top science prizes and awards. And for thousands of undergrad students, he's the first-year prof who makes physics understandable—and fun.

By Ryan McNutt

Photography by Nick Pearce

A

slow pan of the camera towards a canoe in the bay. An empty bottle of water resting on a table. A PhD student sitting quietly on a metal stool. A strange plastic tube standing mounted on the lab bench.

Watching pre-recorded videos of the more than 60 demonstrations that are part of Jeff Dahn's first-year physics classes, there's almost always a moment of quiet at the start of them, as if the hushed curiosity over what might happen needs a second to breathe before the science starts. It's a hush that would be audible if the demonstrations were happening in a full-capacity physics classroom, as they normally would. Instead, with COVID-19 moving classes online this year, each student gets to catch their breath remotely, virtually.

The voices that rush in to fill that moment of quiet often have their tongues firmly in cheek. The two stars of the videos, Dr. Dahn and PhD student Marc Cormier, tend to sound more like Abbott and Costello than you might expect from a pair of physicists. Their

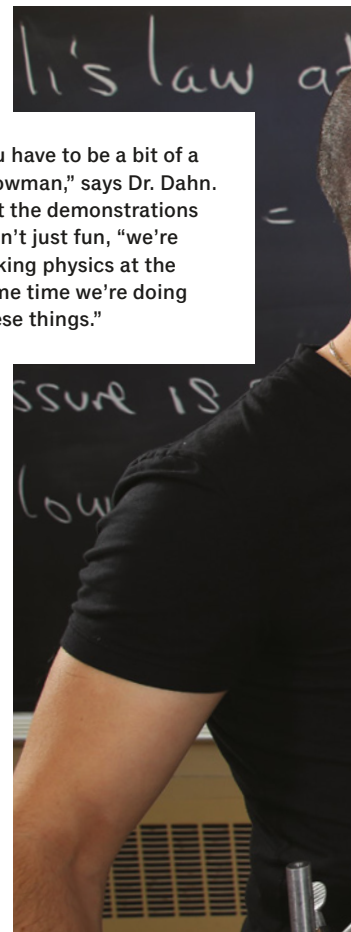
dry banter may come off as silly, but the science is serious—whether it's showing how surface pressure can lift a metal chair into the air or how covering the opening of a glass bottle filled with water can make a small ball of aluminum foil float up and down. Among the most intense demonstrations is a vacuum cannon, powered by air pressure difference in the tube, which Dr. Dahn and Cormier use to blast a ping pong ball towards a light bulb at 400 km/h, obliterating it in the process.

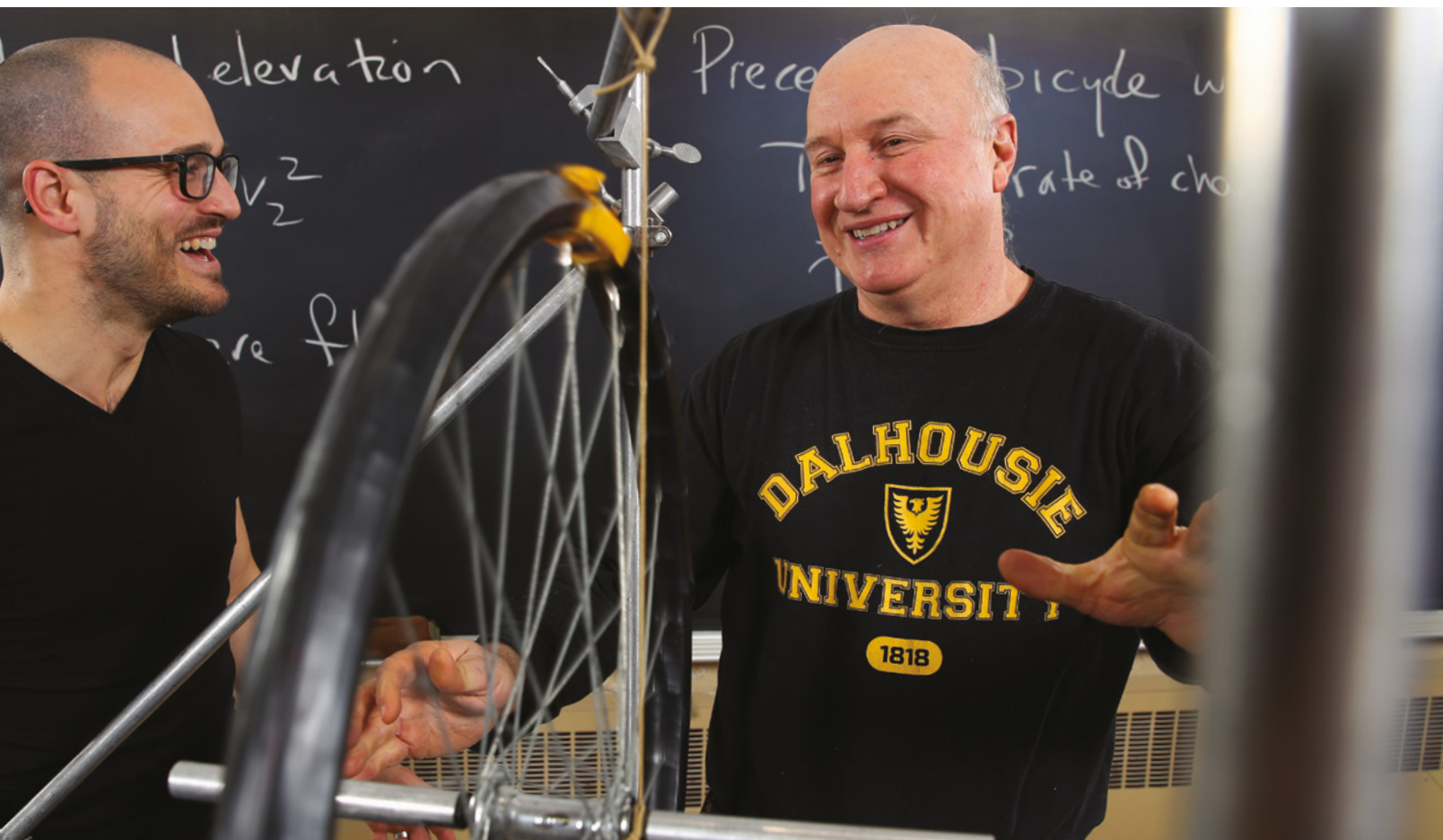
"Students love the demonstrations that look like they put the instructor at risk," says Dr. Dahn, with a hearty laugh. "You have to be a bit of a showman. But they're not just a bunch of foolishness; we're talking physics at the same time we're doing these things."

At some point in many of the videos, Cormier feigns comic surprise and asks if he's witnessing magic—and is quickly corrected by Dr. Dahn who proceeds to clearly, succinctly and often mathematically explain exactly what's happening. The videos all end with a common exchange:

"What's the lesson?" asks Dr. Dahn. The two scientists mug for the camera with two thumbs up before delivering the punchline: "That physics works!"

"You have to be a bit of a showman," says Dr. Dahn. But the demonstrations aren't just fun, "we're talking physics at the same time we're doing these things."





So, no magic involved—but even physics struggles to explain how Dr. Dahn is the man in the middle of all this.

After all, finding a researcher of Dr. Dahn's stature teaching in a first-year classroom is practically a scientific anomaly at most universities. Hundreds of fresh-faced Dalhousie undergrads from across a wide variety of science and engineering disciplines get to spend a few hours each week with someone who's won Canada's top science prizes, someone whose inventions can be found in the lithium-ion batteries that power household appliances and electronics around the world. Even after he was recruited by electric vehicle pioneer Tesla for its first ever university partnership, Dr. Dahn is still signing up to teach introductory physics year after year.

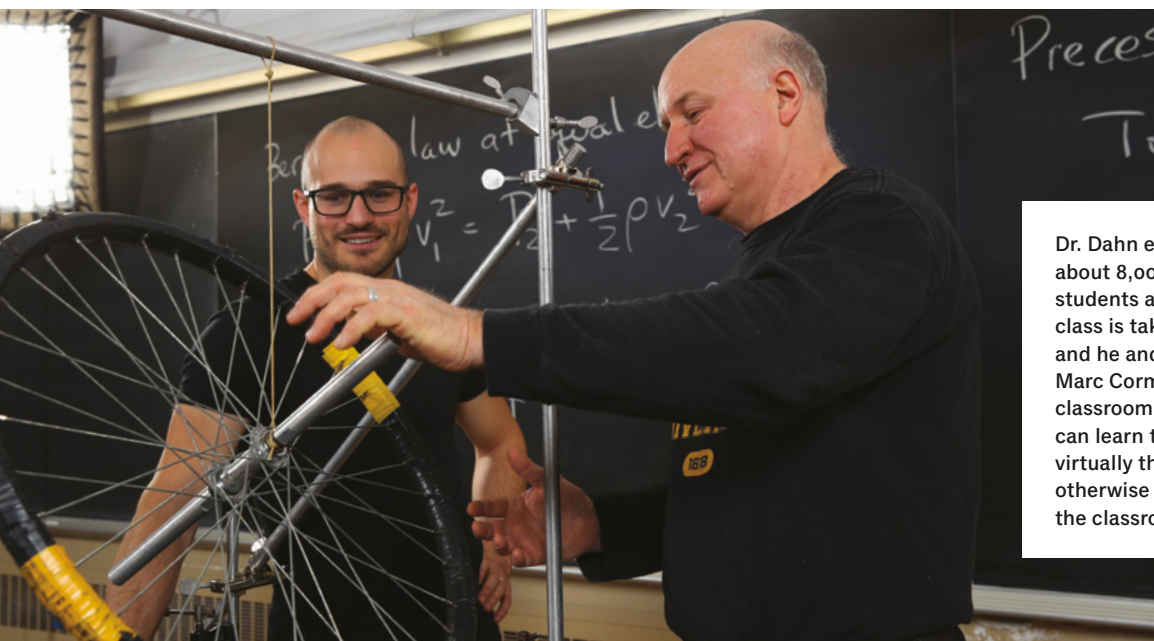
"If an undergraduate student came into his lab to talk about a course, that student was immediately his priority," recalls Luc Beaulieu, a former student of Dr. Dahn's who's now a professor of physics at Memorial University.

"There were certain windows in the week where all his grad students knew to not even try to see him because he would be busy helping his undergraduate students," says Eric McCalla, another former student

now at McGill as a chemistry professor. "He also has the ability to change gears on a dime—the second he is done helping undergrads, he is ready to turn his full attention towards any one of the 15 or so projects that are running at any given time in his lab. I was, and still am, in awe of this ability."

It wasn't a given that Dr. Dahn would become such a dedicated teacher. In fact, when he first entered academia in 1990 after spending much of his early career in industry, he wasn't sure if he'd enjoy it. "Sometimes when a professor joins a university, they're given a semester or two to establish their research, but I told the people at Simon Fraser I wanted to teach right away—because if I didn't like it, I'd leave and go back to industry," says Dr. Dahn. "I was given a summer course in first-year physics, about 45 students, and I really enjoyed it."

What made the experience more engaging for him, and his students, was coming up with quirky, interesting demonstrations to bring the physics lessons to life. When he relocated to Dalhousie, his alma mater, in 1996, he brought with him a growing inventory of demonstrations to which he added many more developed by Dal forbearers like faculty members Ernest Guptill and Gerhard Stroink (the latter of whom



Dr. Dahn estimates he's taught about 8,000 engineering students at Dal. This year his class is taking place online, and he and PhD student Marc Cormier have filmed his classroom demos so students can learn the same lessons virtually that they would otherwise have experienced in the classroom.

helped create Halifax's Discovery Centre). Over the years, the demonstrations have been honed to a finely tuned science—so much so that when a global pandemic arrived, Dr. Dahn was able to organize filming most of them over a few months to ensure they'd continue to be part of the curriculum.

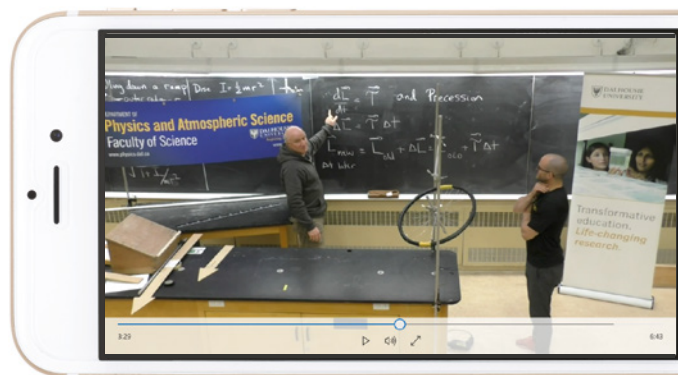
When asked about why he values demonstration-based learning to such a degree, he quotes a Chinese proverb cited at Dr. Stroink's 2018 induction into the Nova Scotia Science Hall of Fame: I hear, and I forget. I see, and I remember. I do, and I understand.

"If you give a lecture without demonstration, students might not remember a damn thing," says Dr. Dahn. "But if they see a demonstration, there's a chance they might remember. And if they do a lab experiment, there's a chance they might understand."

Dr. Dahn's own quest for understanding has never been a solitary one. It's been driven by conversation and collaboration—with Dal colleagues, with the large and accomplished cadre of graduate students and postdocs he's worked with, and with the industry partners he's spent his career working alongside.

"Spending five years in industry, like I did, before moving into academia, it gives you a real grounding in what matters for a product," he explains. "It teaches you to worry about things like cost, about scale, about manufacturability. There are a lot of fundamental science challenges in what we do as well, but we stay focused on practical applications."

Those practical applications include electronics, power tools, electric vehicles—any and all devices that



power our modern world through renewable lithium-ion batteries. Among the many contributions Dr. Dahn and his collaborators have made to lithium-ion technology were a series of NMC (nickel-manganese-cobalt) compounds that, thanks to their ability to increase batteries' safety and stability, were licensed for use by 3M, Dr. Dahn's industry partner at the time, to companies around the world. (3M sold the patents to Umicore, a large NMC producer, in 2016.)

"There was, and perhaps still is, a saying about Jeff: 'Don't bet against Jeff,'" says Larry Krause, senior staff scientist at 3M, who says the company's nearly two-decade partnership with Dr. Dahn's lab is considered a "gold standard of university collaboration."

"It's not uncommon for research labs to compete in directions of cell chemistry or materials development, and it seems that whatever Jeff and his group are working on, more often than not, becomes important," adds Krause. "He's right most of the time, so when Jeff talks at scientific meetings, people listen."

“If students see a demonstration, there’s a chance they might remember.”

Being right most of the time has meant that Dr. Dahn has received too many awards and honours to name—but among them are the Herzberg Gold Medal from the Natural Sciences and Engineering Research Council (often considered Canada’s top science prize), the Governor General’s Award for Innovation, the Royal Society of Canada’s Henry Marshall Tory Medal and the International Battery Association’s Yeager Award. But don’t expect to hear much about these awards from Dr. Dahn himself.

“He’s this global leader in the field, but if you didn’t know ahead of time you may not realize that from meeting him,” explains Chris Burns, another former student whose time in Dr. Dahn’s lab led to launching his own spin-out company, Novonix, focused on battery testing. “He is incredibly humble. He’s not driven by his own personal accolades—although it is quite a list. He’s motivated to help his students succeed and see his research make an impact in society.”

In 2016, Dr. Dahn began a five-year exclusive arrangement with Telsa, becoming not just a supporter of the company’s mission to accelerate the transition to sustainable transportation but an active participant too. His lab’s work focuses on making lithium-ion batteries cheaper, smaller and longer-lasting.

“We’ve been fortunate enough to see a few of the things we’ve worked on move into the Telsa product stream,” says Dr. Dahn. “It’s been very satisfying; just understanding the mission of the company, and seeing them move so quickly, is awe-inspiring. It’s incredible to be able to work with these guys.”

The arrangement was recently re-upped for an additional five years, but Dr. Dahn’s sights are set even beyond that point, towards how this work can continue even after he retires from Dalhousie. (Lest you think he intends to rest, he sees his post-retirement career focusing on finding ways to support increasing Nova Scotia’s battery R&D capacity.) Earlier this year, his lab expanded to include two new major research recruits: Chongyin Yang, arriving from the University of Maryland to become the new Tesla Canada Chair; and Michael Metzger, recruited from Bosch to serve as the new Herzberg Dahn Chair—a position created thanks to Dr. Dahn’s winnings from his Herzberg prize.

“One of my priorities when I got the Herzberg Award was to figure out how to keep this laboratory going, and not just have all the equipment go into the ocean when I retire,” he says. “Now, we’re basically tripling the number of faculty involved in our Tesla project. These guys are really out-of-the-box thinkers and incredibly good researchers. They’re going to be so good.”

Dr. Dahn still has much work to do before he retires, though, and that includes adding hundreds of more undergrads to the list of thousands who’ve been through his first-year physics classroom.

“I think I’ve taught about 8,000 engineering students since I’ve been here,” he says. “I get people who come up to me on the sidewalk and remember a class they took 15, 20 years ago — they still remember the particular demonstrations, and some tell me it’s the most fun class they ever took at university. That means a lot to me — and it’s just fun giving lectures like that.”



Ripple

Effect

From podcasts to advisory panels, community-based research to collaborative reports, Dalhousie faculty are engaged well beyond the university. They contribute directly to public debates and policy discussions on issues as varied as vaccines and diversity, in fields from the sciences to the arts. Their knowledge ripples out into the community, the region and beyond, through media, in advisory roles and via community advocacy, fueling insight into some of the world's most complex and pressing issues. *By Matt Reeder*



Dr. Robert Huish is a regular on CTV News and on local radio programs in Halifax. Engaging with the community on issues related to global development is rewarding, he says.

Communicate

The first person that Dr. Robert Huish invited onto his *Global Development Primer (GDP)* podcast when it launched in 2019 was Eli Diamond, a Dal classics professor who specializes in ancient Greek philosophy. Dr. Huish, a faculty member in the Department of International Development Studies and an expert in issues such as global health and human rights, admits the pairing might have been seen as a bit of a head scratcher. As the two engaged during the episode, though, it became clear how helpful the ethical perspectives of past millennia are to understanding contemporary challenges and how they can open up new avenues of expression in a field sometimes littered with “inhospitable” academic writing.

“It was really rewarding,” says Dr. Huish of the episode, one of nearly 70 produced so far for the podcast, which has attracted listeners from more than 70 countries. Dr. Huish launched the show as a way to make complicated topics more digestible

and it also serves as a core tool in his own teaching thanks in part to the appeal of the medium with students and the shift to online learning during the pandemic.

Dr. Huish has also tapped traditional media to share his knowledge and expertise. He’s a regular on CTV News and on local radio programs in Halifax. “The more we have that commitment to taking knowledge away from the academy and engaging the community with it, the stronger we all are as a result of it.”

MORE LIKE THIS

- Canada Research Chair Dr. Christine Chambers uses social media to amplify research, partnering with well-known media personalities and creating collaborations to spread the word about pain management for children. See @DrCChambers on Twitter.



Dr. Christine Chambers works to spread the word about pain management for children.

Collaborate

If you're an infectious diseases doctor and you get an unexpected phone call on the weekend, you answer it. For Dr. Joanne Langley, one such call came in early 2003 from a microbiologist in Ontario who was seeking her help to combat SARS, or severe acute respiratory syndrome, a deadly new coronavirus spreading in the province. "He just said, 'We need your help,'" she recalls. Little was known about the virus at the time. "We didn't know how it was transmitted or how to interrupt transmission, and there were people who were really sick and dying." Dr. Langley didn't hesitate to step up, joining the Ontario Science Advisory Committee for SARS.

The experience fighting SARS, which was contained by the middle of 2003, was a "defining moment" for Dr. Langley and hammered home the broader public importance of her work. "I think that infectious diseases, because they are communicable between people, naturally expand your focus beyond the individual patient. You consider the whole population very quickly," she says.

As one of Canada's foremost experts in vaccines and communicable disease control, Dr. Langley has answered the call on many occasions over the course of her career. She served for 10 years on the Canadian National Advisory Committee on Immunization, including eight years as chair and vice-chair, as a liaison representative to the U.S. Centers for Disease Control and Prevention Advisory Committee on Immunization Practices, and at the height of the COVID-19 pandemic last year was named co-lead on Canada's National COVID-19 Vaccine Task Force. And that's far from an exhaustive list of her advisory roles, which she manages on top of her positions as professor in the Departments of Pediatrics and Community Health and Epidemiology and head of infectious diseases at the IWK Health Centre.

"You've got all this training and if it can in any way help solve these human health

problems, then you are honoured to do so," she says.

Sometimes, the call to collaborate on solutions is initiated within the university. That's how the Reimagine NS initiative came to be. Rebuilding after a year like 2020 was never going to be easy. A life-altering global pandemic, the worst mass shooting in Canadian history, and ugly new manifestations of anti-Black racism and legacies of colonialism against Indigenous people in Canada were just a few of the many curveballs chucked at the world last year.

Seeing the toll of it all on Nova Scotians, Dr. Lori Turnbull and Dean Kim Brooks in the Faculty of Management (with support from senior leadership at the university) began to consider what Dal could do to help the province move forward in a positive way. The result was Reimagine NS, a project that brought academics together with influential community experts and practitioners to explore solutions around five key themes important to reconstruction efforts: care and connect, support and protect, learn and work, cultivate and consume, and create and commemorate. Reports were produced on each topic, with a series of public forums held last fall to generate broader interest.



Dr. Lori Turnbull (right) and Dean Kim Brooks in the Faculty of Management launched the Reimagine NS project to bring academics and community experts together to explore how the province might rebuild after the many challenges of 2020.



Dr. Margaret Robinson is committed to engaging communities in the research that affects them.

“It’s not like it’s all about the economic component of rebuilding in the immediate sense, or the public health side of it like finding a vaccine,” says Dr. Turnbull, director of the School of Public Administration. “One theme that came out of a lot of these reports is that COVID has exacerbated some trends, challenges and realities that we already knew were there and now it’s making them a little more focused.”

Dr. Turnbull says some of the reports identify very clear next steps and recommendations about what can be done to target specific challenges in the province. Now, it’s up to members on each of the teams to determine what projects to launch next to carry out some of the ideas. “This was not intended as a major research project, but as more of a think piece. It was about finding experts in these different areas, getting them together and then identifying what we need to do now.”

MORE LIKE THIS

- Dr. Mary R. Brooks, professor emerita in the Rowe School of Business, runs a consulting practice focused on transportation and global supply chain management and lends her expertise in policy work for governments and international organizations (impacting legislative reform and informing regulators on pathways to resolve industry issues). She has more than 40 years of service on for- and non-profit boards, recently taking on pro bono services for a European government organization and the U.S. National Academies.
- The Lord Dalhousie Scholarly Panel on Slavery and Race saw academics and community members join forces to produce a report offering a thorough accounting of the various intersections between George Ramsay (the Ninth Earl of Dalhousie who commissioned the founding of Dalhousie University in 1818, while serving as Lieutenant Governor of Nova Scotia) and the institution and legacy of slavery.

Connect

Like many Canada Research Chairs, Dr. Margaret Robinson has a big plate of projects on the go. “I tend to work on projects that I know are relevant and long-standing issues for the communities I’m a part of,” says Dr. Robinson, a bisexual and Two-Spirit scholar from Eski’kewaq, Nova Scotia, and a member of the Lennox Island First Nation.

She explains her approach as a response to many communities’ negative history with research. “A lot of the time,” she says, “research didn’t benefit the communities that took part in it.”

By engaging communities at the beginning of the research process and involving them throughout, projects reflect the real problems communities face, she says. “People will say, ‘Oh, I wish we knew this or someone should look into why that is happening,’ and when you put together a community-based research project it gives you the opportunity to find answers to those questions.”

Decolonizing research has been part of Dr. Robinson’s mission since her years as a post-doc at the Centre for Addictions and Mental Health in Toronto and as an independent investigator at the Ontario HIV Treatment Network. Filling in gaps in data—about Indigenous bisexual people or the impact of poverty on sexual and gender minority people—fuels her research today as an assistant professor in the Departments of English and of Sociology and Social Anthropology at Dal.

Just as the research process is key to creating change, so too is the way it’s shared—whether by infographic, fact sheet, newspaper story, or academic article. “You think about who needs the information to do their job or to make social change or to make the world a better place. And how do they like to get that information?”

One example: In 2016, Dr. Robinson worked with a team of other bisexual women to create *Coming Out As Bisexual*, a disclosure kit to help bisexual women

tell friends and family about their bisexuality. The kit fills a need by offering tips on coming out, and a section for friends and family, helping them to respond in ways that support well-being.

Dr. Kathleen Kevany's work is also driven by connection to her community. An associate professor in the Faculty of Agriculture, Dr. Kevany's work centres around sustainable food systems, plant-based diets, and community well-being—all informed by her incredibly diverse background. Trained as a psychologist and educator, she has managed her own counselling firm and served as director of two multicultural and refugee settlement agencies. She sat on town council committees and is an avid volunteer with community organizations. She has even run for provincial office in Nova Scotia.

Dr. Kevany sees her role not just as an educator but also as a "change agent," working at the borders of community engagement, social progress, and applied scholarship. She acts almost as a consultant for local government and community development organizations, feeding in the latest research and ideas for consideration in the policy process. "To the extent that we are objective and as bias-free as we can be, we also have obligations to use the science to inform policy, with the best available evidence and then practice that best evidence in our lives," she says.

As director of Rural Research Collaboration, a small research institute focused on rural issues and making connections between research and the people who shape rural life in Atlantic Canada and beyond, Dr. Kevany has led studies showing a resurgence of interest in rural living among young people and advocated for the principles of self-sufficiency and making more conscious choices about our food systems in the face of deteriorating public health, deforestation and a changing climate.

The community's receptiveness to Dr. Kevany's expertise could have a lot to do with how she approaches local dialogues

and issues. "I like to frame my work in constructive ways," she says. "Translating knowledge into helpful practice can be a challenge for all of us. To inspire people to invest their personal power into collective change processes, they need to feel valued, encouraged, and well-informed. The university has a key role in sharing knowledge to improve quality of life for all."

MORE LIKE THIS

- Dr. Nur Zincir-Heywood, a Computer Science professor, has championed initiatives designed to make her field more welcoming to women—both at Dal and in the broader Atlantic region—for more than two decades. Digital Nova Scotia awarded her its 2017 Women Leaders in the Digital Economy Award for her contribution to Nova Scotia's information and communications technology sector. She has also been a columnist with CBC Information Morning since 2018.
- Describing himself as a "transnational, multigenerational by-product of empire," Dr. Ajay Parasram's research explores community-inspired research on everything from the experiences of racialization of Asian international students at Canadian universities to settler-colonial issues and the ethics and values associated with Indigenous sovereignty. His Safe Space for White Questions drop-in sessions encourage considerate conversation aimed at helping people better understand the impact of existing racial structures.

Get active
with these six
movement-
boosting tips
by Philip
Moscovitch

Gain without pain



JULIA BRECKENREID



TWENTY MINUTES INTO my conversation about fitness and exercise with Health Promotion professor Dr. Sara Kirk, I notice something: She hasn't used the words "fitness" or "exercise." Instead, she talks about movement and activity. "I think we have to try to shift our mindset," she says. "We're designed to move. We're just not moving as much as we should."

For those looking to exercise more—sorry, I mean, get more active—there is a lot of confusing and seemingly contradictory advice out there. Should you be doing short intense intervals on the bike? Or maybe long hill climbs instead? And do you really need to go to a gym? It's natural to feel overwhelmed. Fortunately, enjoying the benefits of becoming more active doesn't have to be confusing.

Focus on health not weight

"We've got to decouple healthy activity from weight loss. Don't do it because you want to lose weight," Dr. Kirk says.

Lasting weight loss is difficult to attain. If you set that as a fitness goal, you risk being disappointed and giving up. Instead, Kinesiology professor Dr. Melanie Keats says, focus on the many other benefits of exercise: "Exercise not only improves your physical well-being, it also improves your mental well-being so you have better mood, reduced stress, less anxiety."

And those regimens that promise extreme weight

loss? Ignore them. Dr. Keats says these programs don't work, and even if they did, "it's certainly not going to be healthy. People are looking for that quick hit, to get the maximum benefit in the shortest amount of time. But when it comes to physical activity, exercise, fitness, and overall health and well-being, it's not a one-time shot."

Do what you love

"I don't see any pleasure in running. So I don't do it," says Dr. Keats. "The only reason I'll run is if someone or something is chasing me." Dr. Keats is often asked about the best exercise. She says that's "the easiest question to answer. The best exercise or best activity is any activity you're going to do. The biggest trick, and it's not even a trick, is do what you love."

Think about activities that make you happy, Dr. Kirk says. "Cycling brings out the child in me and makes me feel happy. Whizzing down a hill on a bike makes me smile. We will never maintain activity if we don't enjoy it."

Some is better than none

In October 2020, the Canadian government released new 24-hour movement guidelines, with recommendations on sleep, movement and sedentary time. The guidelines call for adults to spend at least 150 minutes per week on "moderate to vigorous" physical activity.

That might seem like a lot, but you don't have to get there

all at once. "Any activity is better than no activity," Dr. Kirk says. "We don't have to run a marathon. It could be something like running up or down the stairs, going out for a walk, or playing with the kids in the yard—trying to build these opportunities for physical activity or movement into our day."

Variety pack, not six-pack

Don't just try sculpting your abs—or focusing on just one other part of your body or aspect of fitness. Try to vary your types of exercise, incorporating a mix of aerobic activity (like walking, swimming, or cycling) with something that builds strength, and movements that work on flexibility and balance. "Ideally, a well-rounded program would include all of those. But that doesn't necessarily mean going to a gym," Dr. Keats says.

"Do what fits in with your daily life and with your capabilities," Dr. Kirk says. By taking that approach and adding some variety you're more likely to develop a new habit and stick to it.

Pain is bad

"No pain, no gain" is a workout cliché. It is also a terrible approach to getting active. "Your body is very smart. If something is painful, your body is telling you that you need to stop or slow down," says Dr. Keats.

That doesn't mean you should never feel any soreness. "You may wake up a little bit stiff or a little bit tight. That's normal. But that should resolve very quickly," she says. And remember the fun factor: pain isn't much of a motivator, but enjoyment is.

It's about more than individual choice

Let's face it: we live in a world designed for convenience and immobility. Most cities prioritize cars. And with many people working from home during the pandemic, any activity associated with the daily commute is gone too. (Dr. Kirk says she misses riding her bike to the Dal campus.)

All this means we live in a world where it is harder to be active than inactive. So don't blame yourself if it's not very motivating to start moving more. "Because we've created an environment that encourages sedentary behaviour, it makes it hard to think about how we build activity into our lives," Dr. Kirk says. Yes, you can make a difference with your personal choices, but the bigger societal choices can create barriers or remove them. "Until our environment becomes health-supporting, it's hard work for everybody to be changing their behaviour. We've got to advocate for a healthier, more supportive environment."

CLASS NOTES

Tell classmates what you've been up to: Email classnotes@dal.ca or go to alumni.dal.ca/class-notes

1970s

'78
Walisundera M. Nimal Ratnayake, MSC, PHD'80, in collaboration with the World Health Organization (WHO), developed a comprehensive global protocol for measuring trans fatty acids in foods. The protocol has a worldwide impact as the WHO is appealing to its member countries to eliminate trans fatty

acids originating from partially hydrogenated oils (also known as industrially produced trans fatty acids) from the global food supply by 2023. Member countries are recommended to use the protocol in their efforts of monitoring and surveillance of the content of industrially produced trans fatty acids in processed and ready-to-serve foods sold in their countries. His research, demonstrating the high content of industrially produced trans fatty acids in processed foods as well as in human milk in Canada,

led to enactment by the Canadian Government of mandatory declaration of trans fatty acid content in food labels in 2005 and banning the use of partially hydrogenated oils in food preparations in 2018. Dr. Ratnayake worked as a research scientist at Health Canada and as head of the metabolic section (Nutrition Research Division) of Health Canada for thirty years and retired in 2016.

1980s

'86
Patty Baxter, BCOMM, MBA'89, started at the IWK Foundation in the role of relationship manager, philanthropy in November 2020. She is working with major gift donors on philanthropic strategies and on special projects. She brings extensive experience in sales management, business development, strategic partnerships and major client relationships to the role. Prior to joining the IWK Foundation, Patty worked in the publishing industry where she spent 27 years, most recently as director, media sales for Advocate Media

Inc. and as publisher of Metro Guide Publishing.

'89
Roger Thompson, BA, BAHC'91, MA'94, has received more recognition for his unique classes at Kyung Hee University in Korea. His "Ethics of Star Trek" class has been acknowledged by William Shatner, who wrote, "So I understand that you are Korea's first Star Trek professor? That must have a good story behind it. I wish you well and hope you have a wonderful day!" The noted Hollywood director Ralph Senensky, who directed seven episodes of Star Trek, called the class "more than impressive." Sean Kenney, who played Fleet Captain Pike, said, "If I were there, I would definitely enroll in your class. Thanks again for your effort to keep Star Trek alive." Accolades were also received from Mary Badham, who played Scout in "To Kill A Mockingbird," and Apollo astronaut Charlie Duke. Prof. Thompson has also recently received kudos for his book, *Lessons Not Learned: The U.S. Navy's Status*

Quo Culture from retired senior U.S. military officers.

1990s

'90
Dr. Julie Curwin, BSC, MD'97, has recently published a book of short fiction entitled *The Appendage Formerly Known as Your Left Arm* with Boularderie Island Press in Cape Breton. Julie is a former winner of the Commonwealth Short Story Competition and the David Adams Richards Prize for fiction. She currently resides in Sydney, N.S. with her husband Chris Milburn (MD'97) and a variety of furry friends.

2000s

'00
Chris Oldham, BCOMM, MBA'02, is the president of InterTalk Critical Information Systems. Since 2014, he has led the company to tremendous growth, nearly tripling in size in terms of both staff and annual revenue. InterTalk has been recognized by both the Halifax Chamber of Commerce and NSBI with awards for innovation and exporting. Now, the company is introducing



1931 convocation procession with professor and university registrar Murray Macneill leading the arts & science graduates, ladies first! Macneill was a first cousin to Lucy Maud Montgomery, who is said to have modelled the character Gilbert Blythe in her *Anne of Green Gables* books after him.



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the industry's first cloud-based control room console product, providing a new method of operational continuity to emergency service providers. For the last five years, Chris has been a strong advocate for Dalhousie co-op programs across multiple faculties, providing placements for students each term.

'02

Mark Mis, MBA, has been appointed

the head of service planning and scheduling at the Toronto Transit Commission (TTC). The TTC is Canada's largest transit agency that prior to the pandemic served 1.8 million customers daily with an integrated network of bus, streetcar and subway services.

'03

Jane Allt, MPA, and **Angela Poirier**, MPA, are co-authors of *How*

Government Really Works—A field guide to bureaucracies in Canada released on October 13, 2020. The book lifts the veil on the work bureaucrats do and offers practical advice on how to survive and even thrive in government.

'07

Emma Brooks, BCOMM, is now head of marketing for Wattpad, the world's largest social storytelling platform.

Wattpad recently announced it is to be acquired by Naver, the "Google of South Korea" and the fifth-largest publicly traded company in South Korea. Emma is looking forward to doubling her marketing team in 2021 (hiring in Toronto and Halifax) to help further the company's vision to entertain and connect the world through stories.

Joshua Myers, BSW, MSW'09, was recently named one of Business in Vancouver's (BiV) Top 40 under 40 for 2020. The prestigious award recognizes the achievements of B.C.'s young entrepreneurs, executives and professionals with demonstrated excellence in business, judgment, leadership and community contribution. Joshua has held various senior-level leadership roles within the

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"We wanted to give a gift that—even if modest—would grow over time and live in perpetuity."

— MICHAEL MOOSBERGER



health-care sector in British Columbia and is currently the executive director of the B.C. Centre for Ability in Vancouver.

2010S

'14
Jesse Albiston, BCOMM, had a brief corporate stint following graduation and has since found his stride as an entrepreneur. He co-founded Bitstrapped, a

technology services firm partnered with Google Cloud Platform. Currently he is focusing on developing the talent within his organization and actively hiring for senior software or cloud architect roles. Jesse advises numerous startups and organizations on how to unleash technology in meaningful ways and translating business objectives into a feasible roadmap. Prior to

Bitstrapped, Jesse was awarded \$100,000 from a startup pitch competition with OpenText, has travelled across the world for fun (Japan was a favourite).

Bai Hú (Ian Heystee), BCOMM, participated in a cultural and educational term (from August 2019 to February 2020) abroad with seven other Canadians. He attended East China Normal University in

Shanghai's Pudong region taking classes on a variety of subjects related to China as well as mandatory Mandarin lessons. Canadian students also had the unique experience of living in Chongqing, China—living with a host family and teaching English at the university level for students training to become teachers. In between diligent study periods and various obligations to both

the universities and other folks, he had the opportunity to explore China by foot, car, train and plane, and visited places like The Great Wall of China and Mt. Hushan near Xi'an. He wrote "The White Tiger Path" as a reflection of his time spent in China. The essay can be found themcfearless-initiative.ca/writings.

'15
Sam Day, BCOMM, spent seven years



I have assisted many Dalhousie University faculty and alumni with their buying and selling needs. Contact me to discuss how I can be of service.

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working as an accountant at PwC and most recently League, a growing Toronto tech company. She realized she wanted to develop her skills in sales and decided to make a career change into strategic business development. This was a perfect way to combine her love for relationship building with her analytical skills from accounting. Her switch has led

her to Top Hat, an EdTech company in Toronto where she supports mergers and acquisitions and partnership efforts to help grow the business.



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Appointments & Retirements

The Faculty of Arts and Social Sciences is pleased to announce two new Canada Research Chairs: **Dr. Margaret Robinson** (departments of Sociology & Social Anthropology and English) in Reconciliation, Gender and Identity and **Dr. Kiran Banerjee** (department of Political Science) in Immigration and Refugee Integration.

Liliana de Antueno (senior instructor in Spanish & Latin American Studies) and **Dr. Leonard Diepeveen** (professor of English) have both retired

from the Faculty of Arts and Social Sciences as of June 30, 2020. Dr. Diepeveen has been appointed Professor Emeritus.

The Faculty of Medicine would like to wish **Monica Baccardax** all the best in her retirement after 43 years at Dalhousie.

Molecular biologist **Dr. John Archibald**, a professor in the Faculty of Medicine, is Dal's newest Arthur B. McDonald Chair of Research Excellence.

Computer Science researcher **Dr. Raza Abidi** has been appointed as a member of the Canadian Digital Delegation to Denmark, hosted by Healthcare Denmark. He is the only academic researcher in the delegation with other members coming from Canadian government and industry.

Faculty of Science congratulates **Dr. Alison Thompson**, new Tier 1 Canada Research Chair in Pyrrole Chemistry for Chemical Biology and Energy; **Dr. Vittorio Maselli**, new Tier 2 Canada Research Chair in Coastal Zone Processes; and **Dr. Ruth Musgrave**, new Tier 2 Canada Research Chair in Physical Oceanography.

Awards & Honours

Dr. Ajay Parasram (BA'06) (departments of International Development Studies and History) has been awarded the 2020-21 Burgess Research Award, which promotes research in Faculty of Arts and Social Sciences and publicizes Dalhousie's commitment to research and teaching excellence.

Acting Dean of Law **Richard Devlin** received the 2020



The Faculty of Arts and Social Sciences, housed in the Marion McCain Building, has added two new Canada Research Chairs to its faculty roster.

Canadian Association for Legal Ethics (CALE) Lifetime Achievement Award in recognition of extraordinary contributions to the field of legal ethics.

Dr. Srinu Sampalli from the Faculty of Computer Science received the Canadian Information Processing Society (CIPS) Award in the Education category at the Atlantic Technology Summit for his dedication and leadership in teaching and learning.

Dr. Nader Hamdan in the Faculty of Dentistry has received the 2020 Educator Award from the American Academy of Periodontology.

The Canadian Dentistry Association presented

Dr. Mary McNally with the 2020 Honorary Membership Award and **Dr. Robert Loney** with the 2020 Distinguished Service Award.

Ted Hubbard (BSC'87, BENG'90) of the Department of Mechanical Engineering has been awarded the Wighton Fellowship, one of the most prestigious awards recognising engineering education in Canada. This is only the second time in the Fellowship's 31-year history that a Wighton Fellow has been named in one of the Atlantic provinces.

Community & Connections

Acting Dean of Law **Richard Devlin** and **Professor**

Sheila Wildeman's new book *Disciplining Judges: Contemporary Challenges and Controversies* looks at the complicated issue of judicial regulation through work by contributors around the world.

Dr. Lisa Barrett, an infectious diseases specialist with Dal's Faculty of Medicine, organized a pop-up testing site at Dalhousie in November that attracted long lines of young people—many of them students—for free, rapid COVID-19 testing when a growing second wave of cases in Halifax was attributed to people aged 18-35.

The Department of Earth and Environmental Sciences hosted a socially distanced community field trip led by alumnus **Dr. Michael Parsons**

(BSC'94) visiting three geological sites in Halifax and Dartmouth, Nova Scotia.

A Faculty of Management event recently brought together **Matthew Martel** (BMGMT'14), **Fiona Kirkpatrick Parsons**, **Rodney Small** (BMGMT'15) and **Angeline Gillis** (BA'05, LLB'09) to and share their lived experiences and perspectives on how and why diversity is important, key challenges they've encountered and ideas for how to foster a more inclusive community.

In celebration of 100 years of Commerce, the **Faculty of Management** gathered alumni from the past four decades to reminisce. Watch the video at [YouTube.com/dalmanagement](https://www.youtube.com/dalmanagement). We would



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The Faculty of Earth and Environmental Studies hosted a community field trip, following COVID safety guidelines, visiting geological sites in Dartmouth and Halifax.

love to hear your memories: Please send them to Lori. Bauld@dal.ca. You may also help support our current students through the Comm 100 Fund: projectdal.ca/commerce100.

The **Faculty of Agriculture** recently published the *Better Together Cookbook*, which features family favourite recipes from the campus community using ingredients that were easily accessible. Short research facts and info snippets provide insight into the faculty's work in the areas of local and global sustainability, food security, and health & well-being. To order your copy of the *Better Together Cookbook*, email agalumni@dal.ca.

The Faculty of Graduate Studies has launched a new professional development program to meet the needs of graduate students and postdoctoral fellows. Called **Dal GradPD**, the new program is a one-stop-shop for workshops and events provided by partners across the university.

 Social events, lectures and more—find out what your faculty alumni team offers at alumni.dal.ca/faculties

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IN MEMORIAM

**We remember
with fondness and
sorrow the following
Dalhousie alumni
(based on information
received between
September and
December 2020).**

1930s

Clark Russell Elliott,
BA'37

1940s

Leonard A. D'Eon,
AGFY '40

Richard Hastings Taylor,
DDS'43

Harvey MacLeod Lewis,
BSC'43

Betty Caroline Murray,
BA'43

George S. Leonard,
DDIP'47

Doris Pauline Allsop,
BA'48

Margaret MacMillan
McLaws, BA'49

William Weston Piggott,
BENG'49

Robert James Butler,
LLB'49

1950s

Albert Rodney Sandall,
BENG'50

James Emerson Borden,
FRC'50

Mary Victoria Reno,
DPHRM'50

Chesley Ernest Petite,
BENG'50

Harry Russell Stewart,
FRC'51

Caroline Phelps Scott,
MD'51

Royden John
MacBurnie, BCOMM'51

Gordon Keith Higgins,
MD'51

Carvell Antworth,
DPHRM'52

Elbert Andrew
Stevenson, BCOMM'52

Harold F. G. Stevens,
LLB'53

Richard Jeffrey Flinn,
LLB'53

Stephen Allen Cook,
DDIP'54

George Elliot Cross,
MA'54

Marion Ruth Randon,
DTSN'55

Edward Prescott Irwin,
BCOMM'55

Gerald William Foote,
DDIP'56

Brenda Lou Gillis,
BA'56

Charles Longworth
Mackenzie, LLB'56

Peter Stewart
MacDonald, BA'57

Thomas George
Ricketts, MD'58

John Robert Geoffrey
Keyston, MSC'58

Donald John Ferguson,
DPHRM'58

Ronald Lawrence
Stoddard, BCOMM'58

David Henry Paterson,
BENG'58

Alan Robert Erwood,
DDS'59

Ross MacLean
MacDonald, DPHRM'59

1960s

Pamela Mary Brown,
MD'61

William Ross Mollard,
LLB'62

Robert Edward Hoar,
DDS'62

Charles William Glennie,
BSC'63

Robert Raymond James
Anderson, LLB'63

Margaret Theresa
MacDonnell, DNSA'64

Ian Frederick Meadows,
BED'64

Neil L. Murphy, DDIP'64

Jean Vivian Gray,
DPHRM'65

Thomas Gordon Taylor,
BENG'65

Walter Ronald Farmer,
BED'65

Charles Peter Holden,
MENG'65

Peter Michael Jangaard,
MENG'65

David William D'Aubin,
BED'66

Walter Paul Zukauskas,
BSC'66

Roger Ralph Freeman,
BENG'66

Eric Arnel Rix, BENG'67

Ross Brown Davison,
MD'67

Angela Wanda Marie
MacRae, BED'67

Jane Marie Manuel,
DPH'68

Linda Alice Swinwood,
BED'68

Seamus Bernard
O'Regan, LLB'68

Peter Alick McDermaid,
BED'68

Graham Thomas
Armstrong, MA'69

Ray Ernest Zinck,
BCOMM'69

1970s

Philip Y. Wong, BSCPH'70

John Keith Hatcher,
BED'70

Margaret Muir Arklie,
BN'70

John George Walter
Manzig, LLM'70

William Eric Duggan,
MBA'71

Naomi Judah, DTSN'71

Kevin Gordon Cumby,
BENG'71

Robert Wayne Lewis,
BENG'71

Sisinio E. Villacastin,
PGM'72

Richard David Estey,
BENG'72

Barry Douglas Fenerty,
BPE'73

Julie Martha Ross, BA'73

Hugh Alan Davidson,
BSC'74

Wayne Albert Finck,
BPE'74

William George McGray,
BED'74

Robert Joseph Hanlon,
BENG'74

Janet Anderson Barclay
Kushner, MA'75

James Roy Betts, MA'75

Thomas Philip Hicks,
BSC'76

David G. Kramer,
BENG'76

Dennis Anthony Pyne,
PGM'76

Said Baydar, BENG'76

Vickie L. Weldin,
DTECH'77

Frank Ramon Pastor,
BSC'77

Brian W. Stonehouse,
BENG'77

F. Sylena Keeping,
DPH'77

Robert MacPherson
Buchan, BED'78

1980s

Robert James Edwards,
BENG'80

Marion Jean Anderson,
BN'80

Eileen Elizabeth Burns,
MA'81

John Henry Webber,
BCOMM'82

Patricia Margaret
MacLellan, MA'82

Elizabeth Hope
Bridgewater, MED'82

Anita Marie MacDougall,
BN'83

A Ellinor Williams,
MURP'84

Henricus Clemens
Burgers, BSC'85

James Joseph Richard,
BSC'85

Jana Wieder, PGM'85

Thelma Lee Hennigar,
MLS'85

Ann Marie Catherine
Wong, BPE'85

Betty Margaret Sweet,
BN'86

Harold Bruce Quigley,
MHSA'86

Heather Jane
McCormick, BA'87

Joseph Jean-Francois
Lambert, BED'87

Mary Icylin Burey,
MPA'87

John Bernard White,
BSW'89

1990s

Edna Buchanan,
BN'90

Michael John Earle,
PHD'91

Sandra Edna Nelson,
BSCN'91

Karen Elizabeth Baird,
MSC'91

Shaun Campbell Black,
MSC'91

Donna Belle Foulkes,
LLB'95

Preman Jeyaratnam
Edwards, BSC'96

2000s

Johnette Carli, BSW'00

Niramol Nugroho,
MEC'01

Nathan Bernie Epstein,
LLD'04

Christina Glidden, BA'07

Margaret Kathleen
Dechman, PHD'08

Robert Kenneth
Carreau, MSC'09

2010s

Therese Eileen
MacDonald, BSW'18

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Building a future

Deng Mabil Khot would like to build a better world—both literally and figuratively. He’s starting with a degree in engineering, but he says that’s just the beginning. “After five years working in the field, I’m planning to go to graduate school but not in engineering. Maybe law school or medical physics. I’m fascinated by rules that are set in society. I want to explore that part too—why society is structured the way it is.” Deng has just completed an Engineering Diploma at Dal’s Truro campus and has now joined the Faculty of Engineering in Halifax to complete his degree. He says the biggest hurdle with online courses is the isolation. “With in-person classes, you can talk to your friend about the material and how hard it is but now you don’t have that connection with anyone.” Especially when you’re studying in a new country. Deng’s journey to Canada and Dalhousie was facilitated by earning a spot in the World University Service of Canada’s Student Refugee Program, which provides young refugees with opportunities to continue their education on Canadian campuses.

It was a long process, but he’s happy with the way everything is playing out at Dalhousie. He gives some credit to a key piece of advice: “One of the professors told me that my grades are my personal responsibility. That I control that success. It was a good push.”

This past summer, Deng was involved in medical physics research through an internship with Dr. Tim Bardouille in the Biosignal Lab, an experience that got him thinking about more future possibilities. Though he plans to stay in Canada for a while, Deng is also considering the idea of going home to South Sudan to inspire the next generation. —*Stefanie Wilson*

“There is so much potential in South Sudan. Getting more experience here in Canada might be part of my ability to help there. To give people, like my nieces, nephews and cousins, a chance to explore for themselves and allow their curious mind to develop.”



NICK PEARCE, SOCCER PHOTO SUPPLIED



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