



*Royal Society of Canada*

*2024 Annual Report*





THE GOVERNOR GENERAL • LA GOUVERNEURE GÉNÉRALE

**Message from the Governor General  
on the occasion of the Royal Society of Canada's  
2024 Celebration of Excellence and Engagement**

As patron of the Royal Society of Canada, I am pleased to send greetings to everyone gathered for this Celebration of Excellence and Engagement.

Over the next four days, you will have the opportunity to discuss some of the most pressing global issues of our time. I am confident that you will continue to lead by example and show that our shared future is in good hands.

In particular, you will be addressing the issue of climate change and exploring innovative solutions, while paying tribute to new colleagues whose contributions have greatly benefited Canadian society.

Congratulations to the Class of 2024, the new Fellows and members of the College of New Scholars, Artists and Scientists, as well as this year's award winners.

I wish all of you an excellent event.

Mary Simon

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Sheila Embleton

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Ed McCauley



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Ralph Nilson

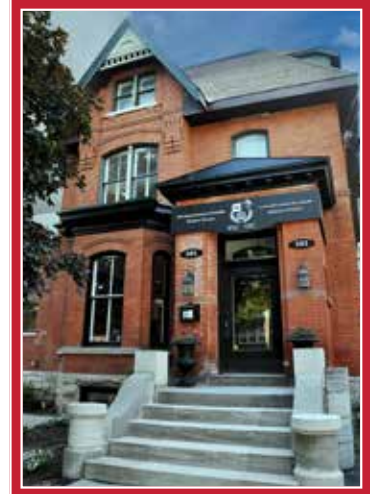
### Members-at-Large

Jennifer Brennan, Phillip Crawley

## The Royal Society of Canada

The Society was incorporated under an Act of Parliament of Canada in 1883 and is dedicated to fostering the highest level of learning and research in all areas of scholarship, making available to its members broad and varied knowledge to evaluate and advise on social, cultural, economic, and scientific issues for the benefit of Canada and promoting Canadian scholarship and accomplishments internationally through active exchanges with other national academies.

The Royal Society of Canada is a Charitable Organization, (Charitable Reg. #10793 5991 RR0001). Donations and Sponsorships from both private and corporate entities enable the Royal Society of Canada to pursue its core mission and mandate.



### The Enduring Mission of the RSC

In order to establish the foundation for multiple initiatives, the Royal Society of Canada elects Fellows and Members while also presenting awards to highlight specific exceptional achievements. After rigorous evaluation and review of their accomplishments, leading individuals may be elected to one of the Society's three Academies—the Academy of Arts and Humanities, the Academy of Social Science, and the Academy of Science. As a complement to the Academies, the RSC established The College of New Scholars, Scientists and Artists in 2014. The College recognizes individuals who have begun demonstrating leading scholarly research or artistic excellence within 15 years of having completed their post-doctoral program or its equivalent. Members of the College are elected for a period of seven years.

In addition to Fellows and Members of the College, the RSC includes Institutional Members from throughout Canada that play key roles in advancing inclusive excellence for the benefit of Canada and the world. The RSC administers over 20 prestigious awards, most of which are awarded to those at various career stages in recognition of outstanding achievement.

As emphasized in our by-laws, the RSC recognizes leaders in order to help them build a better future in Canada and around the world. For this reason, the RSC fulfills its mandate successfully to the extent that it recognizes excellence and then mobilizes the membership to make significant and substantial contributions of knowledge, understanding, and insight through engagement with the larger society.

### Thank You to Our Members and Partners

The RSC could not do all that it does without the support of membership dues, partnerships and those who choose RSC for their charitable giving.

We are especially grateful for the services of many volunteers who contribute their time and expertise.

For ways to get involved or to support the RSC through a contribution, please contact us or view our website.

### Financial Statements

The financial statements have been prepared in accordance with Canadian accounting standards for not-for-profit organizations. RSC is committed to financial transparency. We publish our full Audited Financial Statements on our website at [rsc-src.ca/en/resources](http://rsc-src.ca/en/resources).

## Message from the President



Dear RSC Members and Colleagues,

As we reach the mid-point of our strategic plan from 2023-2025, this year's Annual Report provides an occasion to assess the progress we have made in achieving our goals. I am grateful to members of the Board of Directors and the Council, whose leadership efforts continue to make our progress possible.

Perhaps the most visible sign of our evolution over the course of the past year is the re-opening of Walter House in keeping with its 130-year history of hospitality. Following many years of careful planning, collaboration with heritage authorities, and with the support of members such as the Embleton family and former RSC Presidents Bill Leiss, Chad Gaffield, Maryse Lassonde and Patricia Demers, our home on Somerset St. West is now a sun-filled convening beacon for our community. We hope you will visit when you are next in Ottawa.

To animate the activities in Walter House, throughout Canada and around the world, the RSC identified three strategic pillars that are currently driving and will continue to guide our efforts: Inclusive Excellence, Independent Expertise, and International Engagement.

The membership cycle resulting in this year's New Fellows and College Members has been the first in our history when all nominees – whether for the Academies or the College – were required to submit a self-identification form. As our recognition programmes expand, it is increasingly important that we understand the diversity on which Canada rests.

Our activities to enhance the provision of independent expertise as a lynchpin of democracy have continued to be co-created with key partners including The Canadian Academy of Health Sciences, *The Globe and Mail*, Let's Talk Science, Canadian Science Publishing, *Érudit*, Les Fonds de recherche du Québec, and Acfas. Both Let's Talk Science and *Érudit* have organized programmes at this year's Celebration of Excellence and Engagement, and we are very happy to welcome Les Fonds de recherche du Québec as well as *Érudit* as Institutional Members. This will open up new avenues of collaboration.

As Canada prepares to assume the presidency of the G7 in 2025, the RSC is indebted to College President Frank Deer for his leadership in organizing the Tri-Academy Partnership on Indigenous Engagement alongside colleagues from the Royal Society of New Zealand Te Apārangi and the Australian Academy of Science. You will be hearing a good deal about the RSC's Presidency of the Science 7 in 2025 as well as our multi-year research strategy on Indigenous engagement, and we hope you will become even more involved in these activities.

I am delighted to report that we have an outstanding complement of leaders as the next RSC President and Academy Presidents, whose terms begin in November of 2025. The next President of the RSC will be Françoise Baylis, the next President of the Academy of Arts and Humanities will be James Grier, the next President of the Academy of Social Sciences will be Guy Laforest, and the next President of the Academy of Science will be Robert Boily. These colleagues will team up with Audrey Moores, who will assume the presidency of the College beginning this November after the COEE. Congratulations to all!

As President, and on behalf of the Board and Council, I would like to acknowledge the Walter House team for their imposing contribution to our community and our mission. As our strategic plan emphasizes, we continue to go further because we are going together.

A handwritten signature in black ink that reads "Alain-G. Gagnon".

Alain-G. Gagnon  
President

## Message from the Executive Director



Dear RSC Members and Colleagues,

In keeping with its 130-year history of hospitality, and as envisioned in a multi-year planning process, Walter House re-opened its doors in the spring of 2024 to the RSC community and to all those interested in a country and culture informed by independent expertise.

In May, we re-opened with a project completion celebration to thank our team of architects, engineers, project managers, tilers, painters, masons and landscapers, along with their children and the families of RSC team members.

We then hosted a number of gatherings reflecting our community's reach across disciplines and across generations, including a dinner for College Members; a two-day scientific meeting focused on Highly Pathogenic Avian Influenza; the Ottawa-based launch of Steve Paikin's biography of Prime Minister John Turner; a day-long strategy session of the RSC Board and a reception hosted by the Board; a book launch for Daniel Levitin's most recent best-seller, "I Heard There Was a Secret Chord"; and a welcome reception for the new Rector of l'Université St. Paul (and longtime Secretary of the RSC College) Louis Patrick Leroux.

We have also opened the doors to welcome our partners including Canadian Science Publishing, which held management and Board meetings at Walter House in the spring and fall.

We look forward to a slate of activities in the coming year punctuated by Canada's presidency of the G7 during which the RSC will host the Science Academies of the G7 for a springtime summit in Ottawa.

Our activities on-site, throughout Canada and around the world are driven by an extraordinary, diverse – and dispersed! – team. Led by Linda Clauson, our team welcomed Events Manager Sarah Seward who is based in Kentville, Nova Scotia, to complement the geographic reach of Communications Manager, Paige Beveridge who is based in Vancouver. We said a very fond farewell to Chris Dragan after five years of extraordinary service, and welcomed back Nicolas Lafreniere, whose experience with the RSC positions him optimally to succeed Chris as Membership and Awards Officer. Our programming at home and abroad continues to be led by the incredible Russ MacDonald with the support of Amelia Domaradzki, now in her sixth year with the team.

Over the past two years, and in pursuit of RSC strategic priorities, our objectives have been to build our home and to strengthen our team. We look forward to leveraging these successes by enhancing our contributions to the RSC community and to Canada in 2025 and beyond.

We hope you will visit Walter House soon.

A handwritten signature in black ink that reads "Darren Gilmour". The signature is fluid and cursive, written in a professional style.

Darren Gilmour  
Executive Director

## Walter House Renovations

Welcome to Walter House!

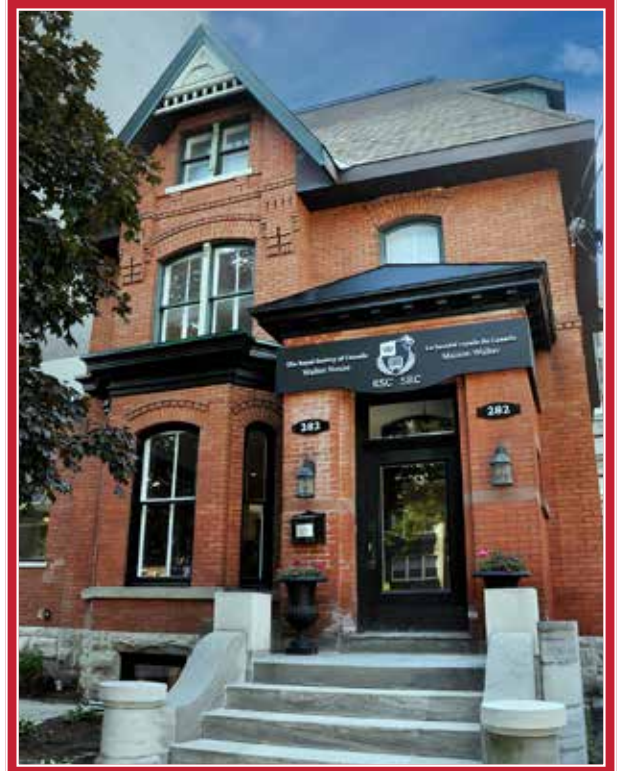
On May 14, 2024 we wrapped up an exciting renovation project on RSC's head office, a historic building built in 1893, located at 282 Somerset Street West in Ottawa.

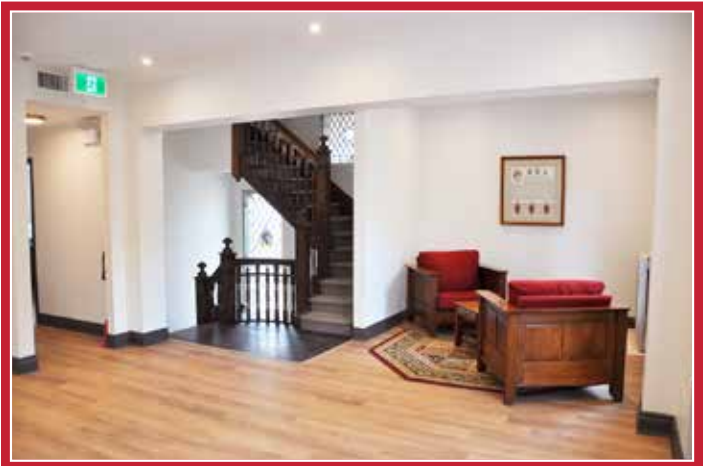
The renovation of Walter House blends historical preservation with modern functionality. During demolition, original brick elements were carefully preserved and reused, prioritizing heritage conservation of critical building elements. A stunning solid wood staircase was uncovered behind one of the existing walls and was refinished in its original colours.

The space includes modern features such as bronze-tone light fixtures, rich wood tone millwork, and warm flooring to create a comfortable and inviting atmosphere.

Featuring a catering kitchen, open event spaces across three floors, boardrooms and a rooftop terrace, our redesigned and versatile event space is ready to accommodate a variety of events including lectures, receptions, and meetings.

We look forward to sharing our space with you! For enquiries, please contact us at [admin@rsc-src.ca](mailto:admin@rsc-src.ca).







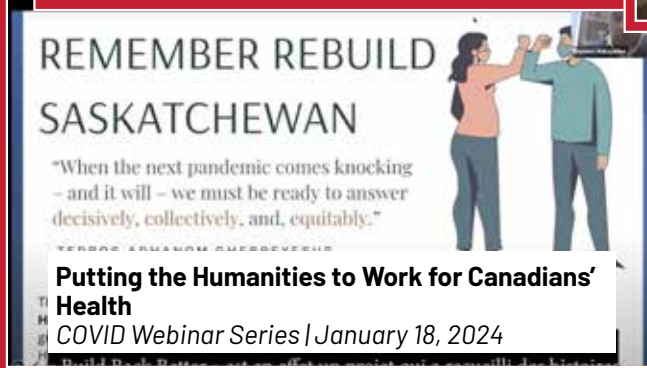
## Events and Activities



**Creativity in the Age of Artificial Intelligence**  
RSC Dialogues @ Massey | December 13, 2023



**Electrification Transition in Canada: Challenges and Opportunities**  
College Webinar Series | December 4, 2023



**Putting the Humanities to Work for Canadians' Health**  
COVID Webinar Series | January 18, 2024

**How Do We Hear the Past? Exploring the English Metrical Psalms and the Early Modern Soundscape**  
RSC Atlantic | February 8, 2024



**Water is Life: Sustainability of Our Oceans**  
RSC Dialogues @ Massey | March 7, 2024



**Roots to Results: A Conference on Cultivating Environmental Health Equity**  
RSC Atlantic | March 22-23, 2024



**Urgent and Long Overdue: Legal Reform and Drug Decriminalization in Canada**  
COVID Webinar Series | March 27, 2024



**What is the role of new scholars for the future of the academy in Canada?**  
RSC College Meeting | May 15-16, 2024



**Freedom of Expression**  
RSC Dialogues @ Massey | May 9, 2024

**Mental Health and the Just Society: Structural Inequality and the Role of the Academy**  
College Webinar Series | May 16, 2024



**The Idea of Universities: What future does it have?**  
ACFAS | May 16, 2024



**Highly Pathogenic Avian Influenza: A Rapid and Evolving Response**  
Walter House Events | May 28, 2024



**John Turner | Steve Paikin Book Launch**  
Walter House Events | May 30, 2024



**I Heard There Was a Secret Chord | Daniel J. Levitin Book Launch**  
Walter House Events | September 17, 2024

**Indigenous Justice in Mi'kma'ki: A Learning Lodge at StFX University**  
RSC Atlantic | August 14, 2024



**2024 Royal Society of Canada Eastern Ontario Symposium**  
Queen's University | September 27, 2024



**Welcome Patrick Leroux**  
Walter House Events | October 8, 2024

**Health Research System Recovery**  
COVID Webinar Series | October 9, 2024



**Dame Sally Davies**  
FRS, Master of Trinity College, University of Cambridge



**Climate Action and Health Resilience**  
RSC Dialogues @ UQO | October 9, 2024

## Frontiers of Science

In February 2024, the *Frontiers of Science: Artificial Intelligence Conference* was organized in Ottawa, Canada. It was a multidisciplinary meeting focused on early to mid-career researchers, a total of 40 researchers, half from Canada and the other half from the United Kingdom. This was the second such event between the Royal Society (UK) and the Royal Society of Canada; the first meeting happened in Whistler, Canada in 2016.

The objectives of the meeting was:

1. To bring together future leaders in artificial intelligence from the UK and Canada for networking, relationship-building and with a view to exploring potential collaborations between the researchers and furthering research collaboration between the countries.
2. To strengthen the relationship between the RS and RSC.
3. To connect early career researchers from both countries with senior scientists, policymakers and other key stakeholders in Canada, and to explore opportunities to contribute to public policy.

The event was co-chaired by Vaishak Belle from the University of Edinburgh and Nicolas Papernot from the University of Toronto. The event also included keynote talks by Yoshua Bengio, Scientific Director of MILA and professor in the Department of Computer Science and Operations Research at the University of Montreal, and Doina Precup, CIFAR AI Chair at McGill and Research Director at Google DeepMind.



## G7 Research Summit: Healthy Aging

Coming up on the 40th anniversary of the Canada Health Act and the 50th Anniversary of the Lalonde Report, emerging from the COVID-19 pandemic, and with an increasingly aging population, Canada is at a point where it needs to reflect on the structure and functioning of its healthcare system. Over the course of 1.5 days, scholars from across disciplines and across generations took a global view through a Canadian lens to explore new paradigms of preventive care; new treatments including gene editing; and built environments that facilitate healthy aging for Canadians in all stages of life.

The 2023 G7 Research Summit on Healthy Aging was inspired by the declaration of the G7 Academies of Science on health and well-being, as well as by RSC Policy Briefings on *Post-Pandemic Healthcare in Canada*, *The Future of Long-Term Care*, and *Investing in Canada's Nursing Workforce Post-Pandemic*.



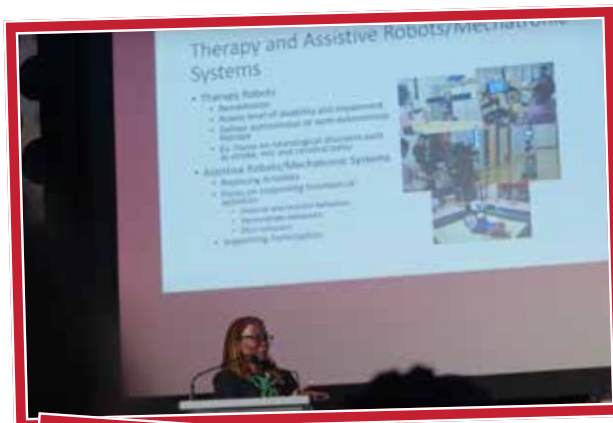
The RSC would like to thank our partners whose support made the summit possible.



# Celebration of Excellence & Engagement, COEE2023

Thank you to the University of Waterloo for hosting the RSC in Canada's Technology Triangle from November 15-18, 2023. As a robust entrepreneurial engine and home to the world's leading co-operative education program, Waterloo is a beacon for creators, explorers and boundary pushing thinkers. Over 520 attendees took part in the conference held at Fed Hall on Waterloo's campus and the Delta Hotel Waterloo. RSC's sold-out Gala event was held at the Concordia Club. Our Thanks to the University of Waterloo, Vivek Goel, President and Vice-Chancellor, Charmaine Dean, Vice-President, Research and the organizing team, Caitlin Wagg and Tom Barber for ensuring the event was a success.

Watch the COEE2023 event recordings here: [bit.ly/COEE2023Videos](https://bit.ly/COEE2023Videos)



The RSC would like to thank our partners whose support made the 2023 Celebration of Excellence & Engagement possible.

## Presenting Partner



## Celebration Partners



## Excellence Partners



## Media Partner



# Celebration of Excellence & Engagement, COEE2024

In partnership with Simon Fraser University, the RSC is delighted to present the 2024 Celebration of Excellence and Engagement (COEE2024) in Vancouver, British Columbia, beginning on Thursday, November 7.

## Program Highlights

### **SFU Symposium: Community-Centered Climate Innovation: The Role of Local to Global Climate Innovation Research**

Climate change is one of the most pressing and complex global challenges facing our world and communities today—one that requires academics, researchers, and community members across the street and across the world to collaborate, share knowledge and build on each other's strengths. Universities can play a leading role in the transformational change required.

### **Romanowski Breakfast Lecture - iMACCS: Innovative Materials for Carbon Capture and Sequestration | Presented by Abdelhamid Sayari**

This annual lecture features a discussion of some of the greatest challenges facing the environment, and research that is contributing to addressing these challenges. This year's lecture is being presented by the RSC's 2023 Romanowski Award Winner, Abdelhamid Sayari.

### **Sparking a New Narrative: The Future of Climate and Wildfire | Presented by the Pacific Institute for Climate Solutions (PICS)**

Across the globe, climate change is increasing the frequency of extreme wildfires and release of greenhouse gases into the atmosphere: "the warming is feeding the warming". In 2023, Canada experienced the worst wildfire season in recorded history, 15 million hectares burned, millions were affected by wildfire smoke, thousands were displaced, many people lost their homes, and ecosystems already under threat were disrupted. British Columbia is on the frontlines of this fire story, it is a living lab where the challenges and solutions are being confronted, and researchers, practitioners, and communities are coming together to ask: how do we co-exist with wildfire? Transdisciplinary research, collaboration across Western and Indigenous knowledges, and commitment to decolonial landscape management practices are key.

### **Open Access to Research Results: The (R)evolution With Implications For Us All | Presented by Erudit**

In 2025, Canada will adopt a new open access policy, to be implemented by its three federal funding agencies. This development will mark a major turning point for academic publishing, both nationally and internationally. What immediate and long term impacts will these upheavals have on Canadian

**CELEBRATION OF  
EXCELLENCE  
& ENGAGEMENT**



PRESENTED BY

**SFU** SIMON FRASER  
UNIVERSITY

**NOVEMBER 7-9, 2024**

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researchers? And how can stakeholders take action to encourage more equitable and sustainable open access? Experts from the field will share their insights and discuss with participants at this bilingual meeting, offering a thorough reflection on the risks and opportunities of this (r)evolution.

### **Presentation of New Members of the RSC College**

The Presentation of the Members of the College formally welcomes new Members in a format that showcases the interdisciplinary character of the College.

### **Induction Ceremony**

The Induction Ceremony welcomes new RSC Fellows in a historic format that invites each new Member to cross the stage and sign the membership register that has been signed by all new Members since 1883.

### **Canada's G7 Presidency in 2025: The Role of the RSC**

In view of Canada's presidency of the G7 in 2025, and in order to gain advice and insights from the Membership, this session will provide an overview of ongoing planning as the RSC prepare to assume the leadership of the Science 7.

The session will also provide an opportunity to learn the findings of The Expert Panel Report on Canada's Role in Global Health, which has been co-organized by the RSC and The Canadian Academy of Health Sciences.

### **Awards Ceremony**

The Awards Ceremony features the presentation of a series of prestigious honours to individuals for their exceptional contributions to a variety of disciplines.

### **RSC Gala and Dance**

The gala is the crescendo event of the celebration weekend, focusing on the experience of our honorees and those who have supported them and continue to support them in their pursuits.

The RSC would like to thank our partners whose support made the 2024 Celebration of Excellence & Engagement possible.





# CONNECT EXCELLENCE AND INNOVATION

# CREATE IMPACT

Simon Fraser University is advancing an inclusive and sustainable future through the power of innovation. When industry and researchers work together, they can solve global challenges through clean technology, health care advancements, computing and more. And SFU supports these partnerships at every stage of the journey.

Connect with us to learn how we can help bring your big ideas to life.





## Publications



### The Humanities and Health Policy | November 2023

COVID-19 was a stark reminder that understanding a novel pathogen is essential but insufficient to protect us from disease. Biomedical and technical solutions are necessary, but they do not prevent or resolve misinformation, vaccine hesitancy, or resistance to public health measures, nor are they sufficient to advance the development of more equitable and effective healthcare systems.

Responding to crises such as pandemics requires deep collaboration drawing on multiple methodologies and perspectives. Along with the science, it is imperative to understand cultures, values, languages, histories, and other determinants of human behaviour. In this policy briefing we argue that the Humanities – a group

of methodologically diverse fields, including interdisciplinary studies that overlap significantly with the social determinants of health – are an underused source of cultural and social insight that is increasingly important and could be better leveraged in such collaboration.

Humanities disciplines approach health and illness as part of the human condition. Their historicized perspective could be more effectively mobilized to explore the social and cultural context in which science exists and evolves, in turn helping us understand the forces shaping perceptions, concerns, and assumptions. Literature, film studies, religion, history, language and other Humanities experts can increase the effectiveness and inclusiveness of policies, educational documents and communications materials, using tools to decode cultural meanings behind words and images, to analyze rhetoric and audience, and to develop nuanced messaging in various languages and cultural idioms.

[Read the full report online.](#)



### Urgent and Long Overdue: Legal Reform and Drug Decriminalization in Canada | January 2024

The COVID-19 pandemic has had a significant impact on substance use and access to related health and social services, reinforcing the call to center the voices of people who use drugs (PWUD) and adopt strong commitments to a human rights based approach.<sup>5</sup> There has been an increase in drug-related harms and drug poisoning deaths associated with a lack of access to necessary supports and services.<sup>6</sup> This has mobilized discussions and action across provinces and territories around harm reduction, safer supply (where a legal, regulated supply of drugs is provided as an alternative to the toxic illicit drug

supply), and alternatives to criminal prohibitions. While PWUD may include people who use drugs casually and who may be people of privilege, the focus of this report is on those who are marginalized and are disparately impacted by the criminal law. The role of the criminal law in creating health and social harms emphasizes the need to shift legal frameworks out of criminal prohibition and towards human rights- and health-oriented regulation. Decriminalization is an important component of a shift away from criminal prohibition and an effective way to reduce the harms experienced by PWUD.

[Read the full report online.](#)



## Repair and Recovery in Long-Term Care: Restoring Trust in the Aftermath of COVID-19 (2020-2023) | January 2024

Three and a half years after the World Health Organization first declared COVID-19 a global pandemic and the disease first appeared in a Canadian long-term care (LTC) home, older adults in LTC still die every week from COVID-19. The LTC workforce emergency continues and remaining staff work short-handed, some without benefits. Despite new cash injections, LTC homes remain deeply under-resourced.

During the pandemic, Canada and the provinces made mistakes. We were slow to establish proper infection control practices and to provide personal protective equipment, we were unable to staff adequately, and we applied severe and cruel isolation practices, keeping those practices in place too long in many homes. Older adults deteriorated and died as a result. Many died alone. LTC residents, families, and essential care partners suffered from the profound confinement and isolation of residents. Staff not only worked short-handed, they took on new and extra duties. They experienced stigma and protests as the pandemic wore on. They stayed at their posts, adapted, and pulled together under extraordinary and often incredibly difficult circumstances. Managers and staff worked under combat-like conditions. When the pandemic was declared over, they struggled to re-enter normal work life. They were heroes and then they were not. Many of the staff and managers who have left LTC and many of those who remain experience devastating mental health consequences.

There is no doubt that we were unprepared for a global pandemic, despite the SARS experience in 2003 and the review that followed. There is no doubt that we are struggling with pandemic recovery and repair. It is unlikely that LTC homes are ready for another major event.

[Read the full report online.](#)



## Health Research System Recovery: Strengthening Canada's Health Research System after the COVID-19 Pandemic | April 2024

The COVID-19 pandemic tested health research systems. Although rapid research and evidence use took place, the pandemic revealed gaps and inefficiencies in the health research system. Together, the Royal Society of Canada Working Group on Health Research System Recovery, the Canadian Institutes of Health Research, Health Research BC, and the Knowledge Translation Program at St. Michael's Hospital-Unity Health Toronto partnered to develop actionable recommendations that a range of organizations can act on, individually and collectively, to strengthen Canada's health research system in the short, medium,

and long-term. These recommendations were based on knowledge exchange sessions and surveys that took place between August 2022 and October 2023 with participants from G7 countries as well as Australia and New Zealand. Participants included leadership from health research funding agencies; leadership from research institutes; health, public health, and social care policymakers; researchers; and members of the public.

The 12 recommendations, which represent opportunities for a range of organizations individually and collectively, were categorized into the four functions of the World Health Organization's framework for health research systems.

[Read the full report online.](#)

# 2024 S7 Statements



## Security and the safety of agricultural production

Agriculture is fundamental to our food system. Its supply chains, involving transport, processing, packaging, storage, and retail, generate around 30% to 50% of GDP in many countries and provide employment to 1.2 billion people whose income supports the life of 3.8 billion world inhabitants. Agriculture is also, however, responsible for environmental degradation in terms of greenhouse gas emissions, pollution of natural resources, such as soil and water, and degradation of ecosystems and biodiversity.

## Artificial intelligence and society

Artificial Intelligence (AI) is reshaping our world, offering numerous benefits but also raising critical concerns to be addressed through globally coordinated and inclusive governance. In October 2023, the G7 leaders published the Hiroshima Process International Guiding Principles and its accompanying Code of Conduct for public and private organizations developing and using advanced AI systems. With the present joint statement, we express the position of the G7 Science Academies on the technical and societal concerns brought by AI with a list of recommendations to policymakers.

## Policy recommendations for health issues

The COVID-19 pandemic revealed weaknesses of health systems and institutional responses, and inadequate international cooperation. Control of an epidemic relies heavily on the pro-social actions of individuals: getting tested, wearing a mask, isolating oneself in the event of infection. This depends largely on public policies, the dissemination of reliable information, access to screening sites, an economic framework (such as paid sick leave) and the commitment of citizens. So far, there has been insufficient engagement with existing associations to set up a process that ensures that the public's voice is included.

## Nuclear arms control

After a sustained period of declining numbers of nuclear warheads, there is a risk this trend could now reverse. The decrease in the number of warheads was the combined effect of numerous treaties. Following the 1970 Non-Proliferation Treaty (NPT), the United States and Russia established a set of bilateral arms reduction and verification treaties, which greatly reduced the risk of a nuclear confrontation. These treaties significantly reduced the stocks of nuclear weapons in the USA and Russia and helped increase confidence and stability in international relations. Recent years have seen an inversion of this trend, associated with increased international tensions which led to the withdrawal from several treaties.

## Social inequalities and poverty. Combating increased vulnerability

The first of the Sustainable Development Goals approved by the UN General Assembly "to achieve a better and more sustainable future for all" is the eradication of extreme poverty, defined as surviving on less than \$2.15 per person per day at 2017 purchasing power parity, to be achieved by 2030. Since the 1980s, the number and percentage of people in extreme poverty has declined. According to World Bank estimates, in 1990 the incidence of poverty was 37.9 percent; by 2019 it had declined to 8.4 percent. Around 60 percent of the extremely poor live in Sub-Saharan Africa.

## Science and communication of cultural heritage. Knowledge and public awareness of our collective roots

"Cultural heritage" includes the tangible and intangible products of human culture within nature, as well as the transformative effects of those cultures on the natural world that generate culturally significant landscapes, and it includes information gathered from human remains (viewed as a biological archive of the humans in the past). Cultural heritage is related to our common nature as a species as well as to our diversity as individuals, populations, and communities. It consists of archaeological and bio-archaeological remains, geo-archaeological settings, buildings, monuments, including those underwater today, landscapes, archival materials, books, works of art and artefacts, historical documents, languages and literature, as well as folklore and traditions.

# 2024 S20 Statements

## Science for Global Transformation

In September 2015, at the United Nations Headquarters, representatives of 193 countries approved a global agenda to be achieved by 2030. The signatory countries recognized that to make our planet suitable for sustainable living, we urgently need to take action on the 17 Sustainable Development Goals (SDGs). Among the most important identified was eradicating poverty in all its forms and dimensions, including extreme poverty, which is the greatest global challenge and an indispensable requirement for sustainable development. Bold and transformative measures were outlined, with our governments committing to embrace them to steer the world towards a sustainable and resilient path. These actions are integrated and indivisible and must balance the three dimensions of sustainable development: social, economic, and environmental. Science and international scientific collaboration serve as key mechanisms to reach these goals. With this standpoint, under the motto “Science for Global Transformation”, the S20 Academies of Sciences met in Rio de Janeiro in 2024, and focused the discussions on five themes related to the UN 2030 Agenda: (1) Artificial Intelligence; (2) Bioeconomy; (3) Energy Transition Process; (4) Health Challenges; and (5) Social Justice.

We present to the G20 governments and society, the S20 Brasil 2024 recommendations with the expectation that these will be considered by our governments and help guide the final document of the G20. We also draw attention to the fact that G20 countries should consider their demographic trends, proactively anticipating and adapting to changes in their workforce size and age distribution, as these factors will significantly impact social security, pension systems, health and welfare programs, thereby affecting economic growth and competitiveness. It is essential for the educational system to address the diverse needs of both aging and youthful populations. Grasping social and demographic trends is essential for anticipating technological requirements and driving innovation.



*Read the full statements online.*

## New Fellows



**ABIZADEH, Arash | Department of Political Science, McGill University**

Arash Abizadeh is R.B. Angus Professor of Political Science and Associate Member of the Department of Philosophy at McGill University. He received his BA(Hon) from the University of Winnipeg, MPhil from Oxford as a Rhodes scholar, and PhD from Harvard. His research focuses on democratic theory; identity, nationalism, and cosmopolitanism; immigration and border control; social and political power; and 17th and 18th century philosophy, especially Hobbes and Rousseau.



**BAŽANT, Zdeněk | Department of Civil and Environmental Engineering, Northwestern University**

Zdeněk Bažant obtained transformational scientific contributions shaping frontiers of solid mechanics and engineering, especially concrete, rock, ice, and aircraft composites. He discovered the size-effect law for quasibrittle fracture and size-effect method for fracture energy testing. He developed the microplane material model, crack-band theory, nanopore adsorption-based concrete creep law capturing hygrothermal effects, and Gauss-Weibull and fishnet probability distributions of strength of heterogeneous materials. These are practice impacting results, likely of permanent value.



**BÉLAND, Daniel | Department of Political Science, McGill University**

Daniel Béland's work has illuminated public policy debates in Canada while reshaping the international scholarship on the role of ideas, policy feedback, territorial politics, and federalism. Widely cited internationally, his work has helped move the study of ideas to the forefront of the international field of comparative public and social policy research.



**BELLOT, Céline | École de travail social, Université de Montréal**

Céline Bellot is a recognised expert for her work examining the prosecution of marginalized and racialized groups, including homeless people, as well as profiling issues. Her collaborative and participatory research has contributed to legislative changes and the development of policies and intervention practices. Her publications and achievements have been recognised through various scientific awards.



**BRENNAND, Kristen | School of Medicine, Yale University**

Kristen Brennand is the Elizabeth Mears and House Jameson Professor of Psychiatry and Professor of Genetics at Yale University School of Medicine. Her mission is to unravel the mysteries of the human genome within a collaborative, inclusive, and supportive training environment. Her research combines expertise in human stem cell models, genomic engineering, and neuroscience to identify the mechanisms that underlie brain development, traits, and disease, towards developing novel, personalized approaches to improve health and prevent disease.



**BURACK, Jacob | Department of Educational and Counselling Psychology, McGill University**

Jacob Burack's scholarship is driven by a commitment to promoting scientifically rigorous approaches to advancing humanistic and universal understandings of human development, regardless of ability level and/or background, within narratives that are strengths-based, empowering, and inclusive. Within this framework, he and his students study unique styles of attention in autistic and other neurodivergent populations and the impact of identification with ancestral culture in promoting academic success, social adaptation, and overall well-being among First Nations adolescents.



**CAI, Lin | Department of Electrical and Computer Engineering, University of Victoria**

Lin Cai is a world-renowned technology innovator, widely recognized for her seminal contributions to network topology control, connectivity theory, and vehicular networking techniques. Her groundbreaking contributions are highly influential in wireless product development and standardization. She is a CAE Fellow, EIC Fellow, IEEE Fellow, and NSERC Steacie Fellow. She serves the Board of the IEEE Women-in-Engineering and IEEE Communications Society, and is Vice President of the IEEE Vehicular Technology Society.



**CARSTAIRS, Catherine | Department of History, University of Guelph**

Catherine Carstairs is a nationally and globally renowned scholar and historian whose work focuses on health and inequity. Her award-winning work demonstrates how racism, colonialism, gender inequity, ageism and class have shaped our past and created health inequalities today. With a longstanding record of international and interdisciplinary collaborations, her research has had a major impact on the discipline of history and generated wide-spread media interest.



**CASTEEL, Sarah | Department of English, Carleton University**

Sarah Phillips Casteel is a prize-winning scholar of Black and Jewish diaspora literature and visual art. Promoting cross-cultural perspectives on aesthetic responses to atrocity, her groundbreaking, internationally recognized research has opened up the study of such neglected topics as Black experience under Nazism and Jewishness in the Caribbean literary imagination. Bridging disciplinary divides, Casteel is leading a major reorientation of Jewish and Holocaust studies towards questions of race and colonialism.



**CHARLES, Anthony | School of the Environment and Sobey School of Business, Saint Mary's University**

Anthony Charles is an internationally-recognized environmental researcher, whose leadership of transdisciplinary partnerships worldwide has created new avenues for building sustainability through people-centred conservation and participatory governance of natural resources and biodiversity. His influential fishery systems approach has transformed how we understand and manage fisheries, coasts and oceans, bringing a holistic perspective that fully integrates humans into the picture – highlighting social, cultural, economic, community and institutional aspects.



**CHEN, Aicheng | Department of Chemistry, University of Guelph**

Aicheng Chen, Tier 1 Canada Research Chair in Electrochemistry and Nanoscience, is an internationally recognized electrochemist. He has made seminal contributions to understanding the fundamental relationships between nanomaterials and their activities, leading to the discovery of advanced electrocatalysts and photocatalysts to address critical global challenges. Chen pioneered the development of dynamic graphene-based nanomaterials toward a sustainable hydrogen economy, robust environmental remediation, and high-performance sensors to ensure food quality and safety.



**CHENG, Li | Department of Mechanical Engineering, Hong Kong Polytechnic University**

Li Cheng, Chair Professor at the Hong Kong Polytechnic University and a Fellow of the Canadian Academy of Engineering, is a world-leading scholar who is distinctly known for his seminal contributions in acoustics, structural vibration and wave mechanics. His pioneering work in the modelling of vibroacoustic systems, acoustic/elastic wave manipulation and control, fluid-structure-sound interaction and structural health monitoring has significantly advanced knowledge in these areas and created impactful engineering applications.



**CHUPIN, Jean-Pierre | École d'architecture, Université de Montréal**

Jean-Pierre Chupin is a scientific leader in the field of architecture, both for his theoretical work on analogical thinking, competitions and architectural quality, and for the creation of open-access databases of immeasurable cultural and historical value. His initiatives have had a decisive impact in setting up inter-university architecture teams and in engaging citizens and professionals in creating built environments of the highest quality in Canada.



**CLARKE, Kamari | Centre for Criminology and Sociolegal Studies, University of Toronto**

Kamari Clarke is a Distinguished Professor of Transnational Justice. A cutting-edge sociolegal theorist known for her pioneering research in the anthropology of international justice, Clarke has authored three monographs, including the groundbreaking *Fictions of Justice* (Cambridge, 2009) and award winning *Affective Justice* (Duke, 2019). She has also co-edited six books, with topics ranging from bold controversies in international law, transformations in contemporary methodologies, and contemporary dilemmas in the the Black Atlantic world.



**COLEMAN, Simon | Department for the Study of Religion, University of Toronto**

Simon Coleman is a pioneer in developing both the anthropology of Christianity and the study of urban forms of religious expression. A leading analyst of religion in plural cultural contexts, he has challenged conventional anthropological conceptions of the operations of ritual in contemporary societies. His internationally recognized, timely work has opened up research into Pentecostalism as a globalizing phenomenon, and introduced important new paradigms in the study of pilgrimage.



**COLLIN-VÉZINA, Delphine | School of Social Work, McGill University**

As a distinguished researcher and clinical psychologist, Delphine Collin-Vézina has made exceptional contributions to the field of research and services on childhood and adolescent trauma. Her innovative research program aims to better understand the impact of adverse and traumatic events in the lives of children and young people, as well as their experiences with services for them, and has contributed to significant changes in social policy.



**COMACCHIO, Cynthia | Department of History, Wilfrid Laurier University**

Cynthia Comacchio's award-winning studies on childhood and youth in Canada have made significant inroads into the historical cultures of the young. She is especially interested in how self-formation is mediated by shifting class, gender, sexuality, and racial prescriptions, and influenced by new technologies and media. Her inaugural application of interdisciplinary and transnational frameworks, regarding age and generational relations, place her in the top rank of Canadian social historians whose work is internationally recognized.



**COOREN, François | Département de communication, Université de Montréal**

François Cooren's research interests span three sub-fields of communication: corporate communication, the study of social interactions and, more generally, communication theories. He is primarily interested in the so-called "self-organizing" phenomena, and the ways in which organizations exist and act. He adopts a "constitutive" view, demonstrating it is within and through communication that organization occurs, whether in entrepreneurial, associative or humanitarian contexts.



**DANCYGIER, Barbara | Department of English Languages and Literatures, The University of British Columbia**

Barbara Dancygier is Professor and Distinguished University Scholar at the Department of English Language and Literatures, University of British Columbia, and past President of the International Cognitive Linguistics Association. Her research interests lie in cognitive linguistics and poetics, focusing on multimodal communication, linguistic constructions, and post-truth phenomena in public communication. She has also developed new analytical tools to explore the language of literary genres.



**DAVIS, Leith | Department of English, Simon Fraser University**

Leith Davis is a Professor of English at Simon Fraser University whose work aims to broaden literary studies by including voices from the geographical and political margins. With six books published and three more underway, she has contributed to topics spanning cultural memory, media history, digital humanities and eighteenth-century literature. Her work demonstrates how the debates of the past continue to shape contemporary issues of identity, inclusivity and memory.



**de BEER, Jeremy | Faculty of Law, University of Ottawa**

Jeremy de Beer is internationally recognized for his research on intellectual property and open collaborative innovation. Through large-scale, transdisciplinary, global partnerships, his work connecting researchers in Canada and across the African continent is simultaneously breaking new conceptual ground, shaping global innovation regulations, and practically influencing Canadian law reform. By aligning IP law with sustainable development goals, he is ensuring that the benefits of innovation are shared equitably throughout society.



**DENBURG, Judah | Department of Medicine, McMaster University**

Judah Denburg’s pioneering research and leadership in the fields of allergy, autoimmunity, asthma and immune-inflammatory disease have resulted in a new generation of diagnostics and therapies for millions of people. He created and led a globally renowned and inter-disciplinary Canadian research network called AllerGen NCE, mobilizing Canada’s leading experts to set standards in understanding and treating allergic diseases and reducing their devastating impact nationally and internationally.



**DIEDERICHS, Mark | Department of Geological Sciences and Geological Engineering, Queen’s University**

Mark Diederichs is an expert in engineering geology, rock mechanics and rock engineering. He has been a strong advocate promoting the integration of geological principles, fundamental geomechanics and rock engineering application, thereby elevating the state of art and practice in deep mining, open pit mineral extraction, tunnelling and underground cavern construction for transportation, water transfer, hydroelectric generation, deep mine access, and research enabling safe deep underground storage of nuclear waste.



**DOBRE, Octavia | Department of Electrical and Computer Engineering, Memorial University of Newfoundland**

Octavia Dobre’s contributions to the advancement of wireless communications and signal intelligence algorithms are world-renowned. Her ground-breaking research has had direct impact on interconnected consumer, industrial, and defence systems. She is a Tier-1 Canada Research Chair and a Fellow of the IEEE, and was the inaugural Chair of the IEEE Women in Communications Engineering Standing Committee and founding Editor-in-Chief of the IEEE Open Journal of the Communications Society.



**DROLET, Marie-Josée | Département d’ergothérapie, Université du Québec à Trois-Rivières**

A Full Professor in the Department of Occupational Therapy at the Université du Québec à Trois-Rivières, Marie-Josée Drolet is an internationally renowned professor-researcher in the field of applied ethics in occupational therapy and health. A philosopher and occupational therapist by training, she is highly sought locally, nationally and internationally for her unique expertise in the field of ethics and the high quality and originality of her work and thinking. As she has published in English and French with fellow researchers from across North America, Europe and Oceania, her work is widely known.



**DUCHESNEAU, Michel | Faculté de musique, Université de Montréal**

Michel Duchesneau is an internationally-recognized specialist whose excellence can be seen in the creation and development of institutions that stimulate research in musicology, his management of a journal and a collection of scientific books, and the specific development of “sociomusicology”, which he applies to French music of the 19th and 20th centuries and its text manifestations.



**DUFF, Patricia | Department of Language & Literacy Education, The University of British Columbia**

Patricia Duff is a Distinguished University Scholar and internationally recognized leader in applied linguistics and multilingual education. Her award-winning scholarship on case study research methods, Chinese language learning, and academic English discourse socialization has catalyzed new lines of research in diverse geopolitical, disciplinary, and ethnolinguistic global contexts. Her foundational research on the complex experiences of transnational learners has transformed the theory and methods used in research on multilingualism worldwide.



**DULVY, Nicholas | Department of Biological Sciences, Simon Fraser University**

Beyond fundamental discoveries, novel approaches and methods in fish ecology and conservation science, Nicholas Dulvy led a massive 20-year global effort to develop a new comprehensive view of the health of ocean biodiversity. He convened scientists worldwide to develop data, tools, and strategies for safeguarding marine biodiversity. His science and communications have transformed understanding of how fisheries, climate change and international trade are driving marine biodiversity loss, and the socioeconomic underpinnings of conservation progress.





**ENGLISH, Ann | Department of Chemistry and Biochemistry, Concordia University**

Ann English is a chemist working at the interface of bioinorganic chemistry and redox biology. Combining cutting-edge enabling technologies such as mass spectrometry with computational analyses, her investigations of redox reactions between hydrogen peroxide and metalloproteins have uncovered unprecedented mechanisms of peroxide signalling and heme trafficking within cells. Additionally, her studies are unravelling how nitric oxide reacts with hemoglobin and other vital biomolecules to regulate biological processes including blood flow.



**FARAH, Alain | Département des littératures de langue française, de traduction et de création, McGill University**

Alain Farah is a professor and writer internationally recognized both for his scholarly contributions on recent avant-garde literature in France and for his literary works. His latest novel, *Mille secrets mille dangers* (Le Quartanier, 2021), rewarded with the most prestigious prizes in the country, has confirmed that he is one of the major voices in the cultural landscape both in Quebec and in the whole of the French-speaking world.



**GEORGE, Susan | Departments of Medicine and Pharmacology, University of Toronto**

Susan George is an internationally recognized molecular pharmacologist who has made significant contributions to our understanding of neurotransmitter G-protein coupled receptors and their role in addiction, depression and neuropsychiatric disorders. Her research also pioneered the discovery of novel receptors, launching new research areas within the fields of physiology and pharmacology, and providing targets for drug discovery. Her research has been recognized by the Prix Galien and Order of Canada.



**GOETSCHEL, Willi | Departments of Germanic Languages and Literatures and Philosophy, University of Toronto**

An internationally acclaimed philosopher, literary historian, and leader in the field of German Jewish thought, Willi Goetschel has advanced research on the deep nexus between thought and literary imagination. Situated at the interface between philosophy and literature, in particular in modern Jewish thought, his work has helped to recover marginalized approaches to critical thinking thereby articulating emancipatory strategies that re-imagine the terms of difference, alterity, and identity anew.



**GUIDOTTI, Tee Lamont | University of Alberta**

Tee Lamont Guidotti has shaped the medical field of occupational and environmental medicine in Canada by scholarship and institution building and is today a global thought leader in occupational and environmental health, sustainability, and risk science. His scholarly work has touched every part of the emerging field, addressing foundational issues. For these achievements, he has achieved international recognition and assumed a position of leadership in science and public affairs.



**GUO, Baining | Microsoft Research**

Baining Guo is a world-leading computer graphics researcher whose work focuses on deep neural network models for 3D graphics and imaging, statistical models for textures and appearances, and geometric modeling. He is widely acknowledged for his groundbreaking research on vision transformers, texture synthesis, and 3D shape deformation. He has invented graphics and video gaming technologies used by tens of millions of people worldwide.



**HEBLE, Ajay | College of Arts, University of Guelph**

Ajay Heble is an internationally renowned scholar, a visionary arts leader, and an innovative community builder whose remarkable achievements demonstrate the power of art to change lives and to improve communities. Dr. Heble led development of a ground-breaking new field of interdisciplinary research and scholarly inquiry: critical studies in improvisation. He is the founding director of the International Institute for Critical Studies in Improvisation (IICSI), a partnered research institute.



**HEYES, Cressida | Department of Political Science, University of Alberta**

Cressida Heyes is a globally recognized scholar in feminist philosophy. Her work in the field has established it as a legitimate area of the discipline, and simultaneously redefined the topics and methods philosophy addresses. She combines theoretically ambitious analysis of the relation of subjects and structures with readings of everyday topics from popular culture, and thus exemplifies the most compelling intersectional feminist scholarship in the humanities.



**HILL, (William) Barry | McMaster University**

Engineer, agriculturalist, entrepreneur, historical interpreter, teacher and organist, Barry Hill continues to contribute to his community as a dedicated volunteer and advisor. In 1993, Barry changed careers to rebuild the family farm and became engaged with local planning and economic development initiatives. He also led several agricultural organizations and continues to contribute his expertise at two universities. He is Warden at H.M Chapel Royal of the Mohawk.



**HILL, Lawrence | College of Arts, University of Guelph**

Lawrence Hill is the award-winning author of eleven books of fiction and nonfiction, including *The Book of Negroes*, *The Illegal*, and *Beatrice and Croc Harry*. A member of the Order of Canada and a Professor of Creative Writing at the University of Guelph, he is writing a novel about the African-American soldiers who helped build the Alaska Highway in northern British Columbia and Yukon during World War Two.



**HOWES, David | Department of Sociology and Anthropology, Concordia University**

In law, David Howes has made significant contributions to Canadian legal history and constitutional studies, and been a staunch advocate for the practice of cross-cultural jurisprudence. In anthropology, Dr. Howes is internationally renowned as a pioneer of the anthropology of the senses and leading theorist of the interdisciplinary field of sensory studies. Recent books include: *The Sensory Studies Manifesto* (2022), *Sensorial Investigations* (2023) and *Sensorium* (2024).



**HUANG, Aiyun | Faculty of Music, University of Toronto**

Aiyun Huang enjoys a musical life as a soloist, chamber musician, researcher, teacher, and producer. Globally recognized since winning the 2002 First Prize and Audience Prize of the Geneva International Music Competition. Born in Kaohsiung, Taiwan, Aiyun has called Canada home since 1990. She currently directs the Technology and Performance Integration Research (TaPIR) Lab and heads the percussion program at the Faculty of Music, University of Toronto.



**ILYAS, Ihab | Cheriton School of Computer Science, University of Waterloo**

Ihab Ilyas is a distinguished computer scientist and a world leader in data management, data quality and data integration. He is especially known for his pioneering research in artificial intelligence for managing and cleaning data at scale. He has made numerous impactful contributions in academia and industry including founding startups and leading large teams in top tech companies. He is a fellow of the ACM and the IEEE.



**ISHAK, Waguih | Department of Electrical Engineering, Stanford University**

Waguih Ishak created and led photonics and electronics research teams to develop key photonic components and systems including more than 20 Lightwave instruments, the world's first commercialized VCSEL lasers, the development/commercialization of the optical mouse, the invention/commercialization of the laser mouse, the development of the >100Gb/s parallel optical computer interconnects, and the 40Gb/s active optical cables.



**JENSTAD, Janelle | Department of English, University of Victoria**

Janelle Jenstad has shaped the emerging field of geohumanities as the creator and director of the Map of Early Modern London, one of the most important digital humanities projects in Renaissance studies. The multilayered, detailed digital map that she envisioned and developed stands apart as a pre-eminent example of interdisciplinarity, collaboration, reach and impact. The map consistently serves 7.7 million pages annually to 200,000 visitors from nearly 140 countries.



**JETTE, Nathalie | Department of Clinical Neurosciences, University of Calgary**

Nathalie Jette, a University of Calgary Professor of Neurology, is an internationally recognized clinician-scientist and health services researcher. Her highly cited research focuses on using big data to understand health outcomes, improve access to equitable care and develop tools to optimize the dissemination of evidence-based practice. Her work has enhanced the lives of people with epilepsy globally through her influence on healthcare delivery and leadership with prominent organizations (e.g., the International League Against Epilepsy and World Health Organization).



**KAMWA, Innocent | Department of Electrical and Computer Engineering, Université Laval**

Innocent Kamwa is recognized for his outstanding and awarded contributions to adaptive power grid control schemes and synchronous generator testing and standards. He pioneered synchrophasors-based wide-area control, a game changing technology adopted by Hydro-Quebec to operate electric network closer to its limits. New technologies developed in his lab are being used by electric utilities worldwide and are seen today as turning points in power grid modernization for digital energy transition.



**KARP, Jeff | Harvard Medical School, Brigham and Women's Hospital**

Jeff Karp, Distinguished Chair at Brigham and Women's Hospital, Professor at Harvard Medical School, and Head of Innovation at Geoversity, is renowned for accelerating medical innovation to patients through his groundbreaking work in drug delivery, stem cell therapies, and medical devices. He has published over 165 papers, holds over 100 patents, and has co-founded 12 companies. Dr. Karp ignites conscious living through his book *LIT: Life Ignition Tools: Use Nature's Playbook to Energize Your Brain, Spark Ideas, and Ignite Action* (2022) and empowers it further with his passionate mentorship.



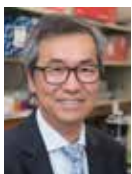
**KAWAKAMI, Kerry | Faculty of Health, York University**

Kerry Kawakami, the Walter Gordon Research Chair and Professor of Psychology, has led groundbreaking research on unconscious biases that has profoundly changed how we understand systemic inequalities in society and our approach to studying them. Through innovative methods, her research identifies implicit racism and sexism and, more uniquely, offers strategies to reduce these biases, significantly impacting Canada's potential to build just and inclusive communities.



**KEE, Hae-Young | Department of Physics, University of Toronto**

Hae-Young Kee is a world-leading theoretician renowned for her exceptional contributions to the field of quantum materials. Her ground-breaking discoveries have not only spurred exploration for new materials but have also extended the boundaries of knowledge into the realm of quantum matter. Kee's remarkable contributions have garnered prestigious accolades, including the Sloan Fellowship, APS Fellowship, CIFAR Quantum Materials Fellowship, Tier I and II Canada Research Chairs, and CAP/DCMMP Brockhouse Medal.



**KIM, Richard | Department of Medicine, Western University**

Richard Kim is Professor and holds the Wolfe Medical Research Chair in Pharmacogenomics at Western University. Dr. Kim received his medical degree from University of Saskatchewan and postdoctoral fellowship training at Vanderbilt University. The goal of his research is that of better understanding the molecular basis of why patients differ in response to medications and utilize the latest genomic technologies to provide precision medicine-based drug therapy for our patients.



**LEE, Charles | The Jackson Laboratory for Genomic Medicine**

Charles Lee made a revolutionary discovery in 2004: Genes don't always occur in two copies per cell. This ground-breaking discovery uprooted the field of human genetics, transforming our understanding of disease mechanisms, human evolution and leading to the development of new genetic diagnostic tests. He has written more than 190 publications which have collectively been cited more than 100,000 times. From 2017 to 2023, he served as president of the Human Genome Organization.



**LEE, Kang | Department of Applied Psychology and Human Development, University of Toronto**

Kang Lee is a Professor at the University of Toronto and a Tier 1 Canada Research Chair in Developmental Neuroscience and Moral Development. He is an international authority on the development of dishonesty and racial bias in early childhood and has made transformative theoretical, methodological, and empirical contributions to developmental science. He has also made direct and far-reaching impacts on educational, legal, and clinical practices.



**LeFEVRE, Jo-Anne | Department of Cognitive Science, Carleton University**

Jo-Anne LeFevre is Chancellor's Professor of Cognitive Science and Psychology. Her extensive research on mathematical cognition and learning is being applied to improve the lives of Canadian children through the development of assessment tools that support equity in mathematics. In 2023, she received the Donald O. Hebb Award from the Canadian Society for Brain, Behaviour, and Cognitive Science in recognition of her sustained contributions to research, training, and leadership.



**LI, Ren-Ke | Department of Surgery, University of Toronto**

Ren-Ke Li is a Senior Scientist at University Health Network and a Professor in the Department of Surgery at University of Toronto. He is the Canadian Research Chair in Cardiac Regeneration (Tier-1) and Fellow of Canadian Academy of Health Sciences. His pivotal contributions include discovering stem cell therapy for cardiac regeneration and developing conductive biomaterials to treat arrhythmia. He has published over 270 papers and has four granted patents.



**LUNEAU, Marie-Pier | Département des arts, langues et littératures, Université de Sherbrooke**

Marie-Pier Luneau is an internationally-renowned specialist whose work focuses on printed media, the sociology of the author, and popular literature, in particular "romance" novels. The studies she has authored or co-authored have received critical acclaim and have all opened up new fields of research. Professor Luneau has thus become a leading figure in literary research, particularly for her highly innovative study approaches to books and publishing.



**LUPIEN, Mathieu | Department of Medical Biophysics, University of Toronto**

Mathieu Lupien, a French-Canadian scientist, significantly expanded the realm of cancer and epigenetics research to recognize epigenomic reprogramming as a hallmark of cancer. His seminal studies in functional epigenomics and genome indexing led to the discovery of new classes of non-coding DNA elements and associated epigenetic variations to reveal their role in disease etiology. His groundbreaking work leads the adoption of epigenomics technology in clinical settings to benefit cancer patients.



**MacDONALD, Margaret | Department for the Study of Religion, Saint Mary's University**

Margaret MacDonald has conducted ground-breaking work on early Christian communities and received international recognition through research chairs, translation of her monographs into Italian and Spanish, and numerous leadership roles. She currently holds the Santamarian Chair for the Faculty of Arts. A pioneer in social-scientific interpretation of the letters of Paul, her work opened new pathways of research in dialogue with modern questions about power, families, and constructions of gender.



**MAROIS, Christian | Herzberg Astronomy and Astrophysics Research Centre, National Research Council Canada**

Over the past two decades, Christian Marois has revolutionized our view of the universe by pioneering the direct imaging of exoplanets. His ingenious invention of high-contrast techniques resulted in the landmark imaging of the first exosolar system, and his innovative imaging techniques continue to give planetary scientists a clearer lens for scientific discovery. He is now developing novel technologies to drive the search for Earth-like exoplanets and life.



**MARSHALL, Deborah | Department of Community Health Sciences, University of Calgary**

Deborah Marshall has made significant contributions to lead and shape the field of patient-oriented research, patient preferences and the science of patient engagement in research. Her highly cited research on innovative methods to engage patients, measure quantitatively what matters to patients and the trade-offs in healthcare decisions have had global impact on research practices, patient-centred healthcare and outcomes, and health policy. Her research findings have influenced the integration of patient voices to improve healthcare decision-making.



**MASON, Georgia | Department of Integrative Biology, University of Guelph**

Georgia Mason is an internationally recognized leader in animal welfare research who is transforming how we treat other species. The world authority on the effects of captivity on animal behaviour and health, her fundamental research investigates animal emotions, moods and overall well-being in innovative, rigorous ways. Her discoveries have helped change attitudes, guidelines and even laws to better protect animals worldwide.



**MAYR, Suzette | Department of English, University of Calgary**

Suzette Mayr is a Full Professor who specializes in Creative Writing at the University of Calgary. Mayr examines through her fiction the lives of LGBTQ2S+ and racialized people in the Canadian west. Her novel *The Sleeping Car Porter* was awarded the 2022 Giller Prize and was a finalist for the Dublin Literary Award and the Governor General's Literary Award for Fiction.



**McCORMICK, Roderick | Faculty of Education and Social Work, Thompson Rivers University**

Roderick McCormick comes from the Mohawk (Kaniienkehaka) Nation and holds a British Columbia Research Chair in Indigenous Health. His research has attracted more than \$50 million in funding in the areas of Indigenous health and mental health, suicide prevention, capacity building, and community wellness. As a global expert in his field, Dr. McCormick is regularly asked to provide advice to Indigenous communities, provincial and national governments, and international organizations.



**McGOWAN, Mark G. | Department of History, University of Toronto**

Historian Mark G. McGowan is internationally recognized as the leading expert on Irish migration and settlement in Canada. His original and innovative research methodology has resulted in pioneering publications on the Irish diaspora in the North Atlantic world, sectarian relations, religious education, and Irish Famine orphans. His research has prompted diplomats, scholars, educators, and religious leaders, to seek him as an advisor, research collaborator, and principal investigator on special projects.



**MISRA, Manjusri | School of Engineering, University of Guelph**

Manjusri Misra is an established leader in sustainable materials, with life-long contributions to the advancement of biopolymers and biocomposites. She is recognized globally for innovative material design for functional performance of bioproducts. Her novel materials reduce global dependence on fossil polymers, greenhouse gas emissions and waste, fostering a circular economy and contributing to the UN's Sustainable Development Goals. Her dedication to technology transfer for commercialization has led to award-winning applications in manufacturing.



**MOORE, G.W. Kent | Department of Chemical and Physical Sciences, University of Toronto**

G.W. Kent Moore’s innovative research has transformed our understanding of the impacts of climate change in polar and mountainous regions. His exceptional and sustained record of impactful and highly interdisciplinary research has provided critical new insights into the evolving interactions between the ocean, atmosphere and sea ice in a changing climate. In addition, he has pioneered a new area of research at the intersection of meteorology and high-altitude human physiology.



**MUNOZ, Douglas | Department of Biomedical and Molecular Sciences, Queen’s University**

Douglas Munoz is a transformational leader in the field of systems neuroscience, and an ambassador for Canadian neuroscience on the global stage. A Tier I Canada Research Chair in Neuroscience from 2001 to 2022, his award-winning research on how the brain controls eye movements has led to over 200 top-tier highly influential publications. Furthermore, he has translated this work to develop new diagnostic tools for a variety of brain disorders.



**NADER, Karim | Department of Psychology, McGill University**

Karim Nader is a renowned neuroscientist whose groundbreaking discovery of memory reconsolidation has revolutionized memory science and fundamentally transformed behavioural neuroscience. His research on memory reconsolidation challenged established theories by showing that old memories can be modified upon retrieval. This discovery has paved the way for innovative therapeutic approaches for anxiety disorders, including post-traumatic stress disorder (PTSD), and drug addiction.



**NEWMAN, Carey | Department of Visual Arts, University of Victoria**

Artist and scholar Hayalthkin’geme – Carey Newman, makes regional, national, and international impact by combining art and Kwakwaka’wakw Knowledges to address Indigenous and environmental injustice. His projects, like The Witness Blanket and Seedling, transform conversations around reconciliation and decolonization across social, institutional and political paradigms, driving innovation and collaboration that challenge status quo approaches to research in the arts, climate, leadership, transsystemic law, collections management, conservation, technology and more.



**NIELSEN, Torsten | Department of Pathology and Laboratory Medicine, The University of British Columbia**

Torsten Nielsen is a clinician-scientist pathologist who is working to translate the vast amount of molecular information about cancer gained from new genomic technologies into practical advances that improve health. In sarcomas he has developed new, faster and more accurate diagnostics and made discoveries that have led to new targeted therapies. For breast cancer, he has developed tests that identify women who can safely avoid radiation and chemotherapy.



**OGILVIE, Gina | School of Population and Public Health, The University of British Columbia**

Gina Ogilvie is a Professor and Tier 1 Canada Research Chair in the Global Control of HPV (human papillomavirus)-Related Disease and Cancer at the University of British Columbia. Her career is dedicated to eliminating cervical cancer in Canada and globally. She is internationally recognized for her research on reduced dosing of the HPV vaccine, improving HPV vaccine uptake, and innovative cervical screening methods, which have transformed health policy globally.



**OSINSKI, Gordon | Department of Earth Sciences, Western University**

Gordon Osinski is a geologist and Professor at Western University. His research focuses on understanding the evolution of the surface of the Earth and other planetary bodies and the origin of life. He has conducted fieldwork on six continents, from the Arctic to Antarctica. He is the Principal Investigator of the Canada’s first lunar rover mission and is a member of the Science Team for the Artemis III mission, the first human mission to the Moon in over 50 years.



**PACKIRISAMY, Muthukumar | Department of Mechanical, Industrial and Aerospace Engineering, Concordia University**

Muthukumar Packirisamy, Concordia Research Chair and Director of Micro-Nano-Bio-Integration-Center at Concordia University, is a world leader on multi-disciplinary area of micro-nano integrated Lab-on-Chips for applications in life sciences. As a highly accomplished researcher, inventor and prolific scholar, his technological breakthroughs and experimental innovations are used worldwide. Outstanding examples include intra-cellular-plasmonics and nano-interactions based early cancer diagnosis. Packirisamy is an Alumnus of the College of New Scholars of the RSC and Fellow NAI, RSC(UK), INAE, ASME, CAE, CSME, EIC and IEI.



**PAPADOPOULOS, Vassilios | Alfred E. Mann School of Pharmacy and Pharmaceutical Sciences, University of Southern California**

Vassilios Papadopoulos has made significant contributions to the field of steroid hormone biosynthesis and regulation. His work pioneered the pharmacology of steroidogenesis and neurosteroidogenesis with direct impact on the understanding and treatment of endocrine, reproductive, neurological and psychiatric diseases. He also contributed to the success of Universities and Academic Health Sciences Centers by invigorating outstanding and interactive academic environments and training the next generation of scientists and health professionals.



**PASSOW, Uta | Department of Ocean Sciences, Memorial University of Newfoundland**

Uta Passow has made significant contributions to our understanding of the ocean's role in removing carbon from the atmosphere, therewith influencing climate, and the distribution of oil spilled into our waters. Her discovery that marine snow efficiently transports oil to the deep seafloor was unexpected and has changed oil spill response planning worldwide. In 2022, she received the prestigious A.G. Huntsman Award for Excellence in the Marine Sciences.



**PAULTRE, Patrick | Département de génie civil et génie du bâtiment, Université de Sherbrooke**

Patrick Paultre, a Professor at the Université de Sherbrooke, is a world-renowned expert in structural dynamics and earthquake engineering. He held a Canada Research Chair for fourteen years and is the author of three award-winning books on structural analysis and design. His work has led to changes in the building codes of several countries and to improvements in the resistance of buildings to seismic shocks. He has received numerous scientific awards (e.g. prix Armand-Frappier) and civilian honours (Chevalier de l'Ordre national du Québec).



**PHILLIPS, Jim | Faculty of Law, University of Toronto**

Jim Phillips, Professor of Law and History, University of Toronto, is a leading figure in the field of Canadian legal history. Phillips has been an intellectual leader in the expansion of legal scholarship beyond traditional doctrinal limits. His work ranges over intellectual history, socio-legal studies, case studies, and comparative legal history. Phillips' research has made the history of law a dynamic tool for interrogating Canada's past, present, and national identity.



**POINAR, Hendrik | Department of Anthropology, McMaster University**

Hendrik Poinar is a world-renowned evolutionary geneticist specializing in ancient DNA. He has unearthed important information about the preservation and degradation of organic molecules in the fossil record and how best to access them to address meaningful questions about the past. He is credited with the birth of ancient (patho)genomics via the reconstruction of the genomes of causative agents responsible for the Black Death and Plague of Justinian.



**PRESCOTT, Cindy | Department of Forest and Conservation Sciences, The University of British Columbia**

Cindy Prescott is a Professor in the Department of Forest and Conservation Sciences at the University of British Columbia. Her research spans the interface between forest ecology and forest management, advancing forest science and ensuring that forest management decisions are based on solid scientific evidence. Her research has challenged several widely held beliefs, which she tested through her own experiments and through critical analysis of existing evidence.



**RANKIN, Lisa | Department of Archaeology, Memorial University of Newfoundland**

Lisa Rankin has significantly advanced our understanding of North Atlantic archaeology and Labrador Inuit history, bringing Indigenous agency to the complexities of Inuit-European contacts. Her groundbreaking approach to community-based research is recognized globally for its impacts on Indigenous communities, scholars and policy-makers. Lisa's collaborative study of the deep-past inspires and educates Inuit youth and instills pride in heritage, while training new generations of northern archaeologists and bolstering local community economies.



**RHODES, Ryan | Department of Exercise Science, Physical and Health Education, University of Victoria**

Ryan Rhodes is an international leader in the field of exercise and health psychology, who has created influential new knowledge that addresses improving family health around the world. His research advances our understanding of early family development of physical activity, from the onset of parenthood to parenting practices that help promote activity in children – all with the goal to prevent disease early in life and improve lifelong health.



**RUBINSTEIN, John | Molecular Medicine Program, The Hospital for Sick Children**

John Rubinstein has pioneered methods in electron cryomicroscopy (cryo-EM), allowing the technique to reveal biomolecular structures at unprecedented resolution. He has also used cryo-EM to reveal how cells energize membranes and produce the energy currency ATP. His work has applications ranging from design of new antibiotics for tuberculosis to understanding how neurons communicate with each other in the brain.



**SAINT-MARTIN, Denis | Département de science politique, Université de Montréal**

An internationally renowned expert and innovator, Denis Saint-Martin is proficient in the comparative analysis of the growing reliance of public institutions on consultocracies, whose expertise is shifting the traditional foundations of democratic decision-making. An intellectual dedicated to democratic governance integrity, he also stresses the fundamental importance of ethics in political regulation. His work and speeches, which have earned him recognition and awards, have had a decisive influence on how public policies and associated practices are analysed.



**SAUVÉ, Sébastien | Département de chimie, Université de Montréal**

Sébastien Sauvé is a Full Professor of Environmental Chemistry and outgoing Vice-Dean of Research at the Université de Montréal, and a correspondent of the *Académie d'agriculture de France*. His work focuses on contaminated soils, the circular economy, blue-green algae, ultra-trace analysis by mass spectrometry, and the impact of emerging contaminants on health and the environment. He regularly contributes as an expert to the media. He received the ACFAS Michel Jurdant Environmental award in 2020. He is the Chief Editor of the journal *Frontiers in Environmental Chemistry*.



**SCHMIDT, Louis | Department of Psychology, Neuroscience & Behaviour, McMaster University**

Louis Schmidt is the Science Research Chair in Early Determinants of Mental Health and a Pickering Award recipient. He is an internationally recognized expert in socioemotional development who has championed the importance of viewing personality development and developmental risk through individual, familial, and cultural lenses. His innovative interdisciplinary approach has transformed our understanding of socioemotional development across the lifespan, reduced stigma around mental illness, and challenged cultural stereotypes.



**SELTZER, Margo | Department of Computer Science, The University of British Columbia**

Margo Seltzer's creativity and foresight underly her pioneering contributions to Computer Systems including novel data storage systems; data provenance systems that document how digital data has been created and processed, support computational reproducibility, and enable system-level anomaly detection; and interpretable machine learning models that provide transparency in high-stakes decision making. She is a visionary leader, caring mentor, and dedicated community builder.





**SEMUJANGA, Josias | Littératures de langue française, Université de Montréal**

Josias Semujanga's research focuses on the relationship between literature, linguistics, anthropology and history in the development of a transcultural poetics of the novel. His main areas of research are literary genre theory, the novel, social discourse and the history of criticism and genocide narratives. He has published numerous leading works on Francophone literatures and narratives from Africa and the Caribbean.



**SHARKEY, Keith | Department of Physiology and Pharmacology, University of Calgary**

Keith Sharkey has made outstanding contributions to understanding the neural control of the gastrointestinal tract and the brain-gut connection. His innovative research on enteric glia, and enteric neuroplasticity is recognized internationally and has led to new insights into the etiology of inflammatory bowel disease. He has made transformative discoveries on the role of the endocannabinoid system in the brain-gut axis. His findings will improve our ability to treat gastrointestinal disorders.



**SHIM, Brigitte | John H. Daniels Faculty of Architecture Landscape and Design, University of Toronto**

Brigitte Shim has produced an exceptional body of design work that is committed to craft, tectonics, site and ecology. She is one half of a collaborative partnership addressing built work that tackles multiples scales from architecture, landscape, interiors, furniture and hardware – all developed to a high standard, with craft, rigour, sense of place, mastery of proportions and placemaking. She is recognized for an ongoing commitment to advocacy, mentorship and teaching.



**SLINGERLAND, Edward | Department of Philosophy, The University of British Columbia**

Edward Slingerland is Distinguished University Scholar and Professor of Philosophy at the University of British Columbia, where he also holds appointments in the Departments of Psychology and Asian Studies and is Director of the Database of Religious History ([religiondatabase.org](http://religiondatabase.org)). Dr. Slingerland is the author of several academic monographs, translations and edited volumes, two trade books, and approximately fifty book chapters, reviews, and articles in top academic journals in a wide range of fields.



**STEPHENS, David A. | Department of Mathematics and Statistics, McGill University**

David Stephens is a world leader in Bayesian statistics and causal inference. In addition to designing efficient computational techniques and sophisticated analytical tools for static and dynamic data, he brought crucial statistical expertise to the resolution of major issues in biostatistical and health research. His work on causal inference has also led to insights in causal mechanisms of complex diseases and better treatment protocols.



**STRADIOTTO, Mark | Department of Chemistry, Dalhousie University**

Mark Stradiotto is a world-leader in the field of metal catalysis for assembling organic molecules, including the active pharmaceutical ingredients in medicines. His game-changing research has resulted in the development of the commercialized 'DalPhos' (DALhousie PHOSphine) catalysts, which are used widely in addressing important conceptual and practical challenges in the preparation of bioactive molecules, offering high performance and practicality, while encompassing considerations of sustainability.



**SUN, Shuhui | Institut national de la recherche scientifique, Center for Energy, Materials and Telecommunications**

Shuhui Sun is an internationally renowned expert in clean energy technologies. He has made important contributions to overcoming critical challenges in the clean energy sector, particularly in green hydrogen production, hydrogen fuel cells, and high-energy, safe and long-life batteries. He serves as Executive Editor-in-Chief and an editorial board member for over ten international scientific journals. He is a Fellow of the Canadian Academy of Engineering.



**TOUYZ, Rhian | Department of Medicine, McGill University**

Rhian Touyz, a clinician scientist, has spent her career unraveling molecular and vascular mechanisms of hypertension and cardiovascular disease. She is the Executive Director and Chief Scientific Officer of the Research Institute of McGill University Health Centre, the Canada Research Chair in Cardiovascular Medicine at McGill University, and British Heart Foundation Emeritus Chair. She also directed the Cardiovascular Research Institute, Glasgow University, UK. She trained at Wits University, South Africa.



**URTASUN, Raquel | Department of Computer Science, University of Toronto**

Raquel Urtasun is the worldwide leader in self-driving innovation, having spent the majority of her 25-year-long career pioneering the application of AI to build ground-breaking self-driving solutions that are safer, more efficient and sustainable. She has invented a revolutionary AI-first approach to the problem and is advancing cutting edge technologies that have driven extraordinary breakthroughs across all aspects of self-driving and radically changed the way autonomous driving systems work.



**VACHON, Brigitte | Department of Physics, McGill University**

Brigitte Vachon is a distinguished scholar in subatomic physics, renowned for her groundbreaking investigations of particle collisions at the high energy frontier. Her innovative contributions to the development and application of novel instruments have driven significant advancements and led to major discoveries in the field. As an internationally recognized leader, she has played a pivotal role in shaping future research programs in subatomic physics, both nationally and internationally.



**VEITCH, Jennifer | Construction Research Centre, National Research Council Canada**

Jennifer Veitch is one of the world's most influential environmental psychologists. Her ground-breaking lighting research of the past 30 years at the National Research Council of Canada has replaced anecdote and myth with quantitative, research-based evidence. This has significantly changed international lighting standards and the global research agenda, and provided critical evidence for the widespread adoption of healthier, more productive and energy-efficient indoor lighting environments at work and home.



**VERBEKE, Alain | Haskayne School of Business, University of Calgary**

Alain Verbeke, the McCaig Chair in Management at the Haskayne School of Business, University of Calgary, is a renowned scholar in international business strategy. He has profoundly influenced academic thinking and managerial practice on governance of new resource combinations in multinational enterprises. Several of his novel concepts, including location-bound firm-specific advantages, subsidiary-specific advantages, bounded reliability, bifurcation bias, and regional strategy focus, are now widely used in multinational management thinking.



**VIRAG, Balint | Department of Mathematics, University of Toronto**

Balint Virag is one of the world's foremost experts in probability theory. He has made groundbreaking contributions in a wide range of areas, including geometric group theory, random analytic functions, random matrix theory, and KPZ universality. The elegance and depth of his ideas continues to have a profound influence on current research activity throughout the field of probability.



**VOCADLO, David | Departments of Chemistry and Molecular Biology and Biochemistry, Simon Fraser University**

David Vocadlo is a renowned chemical biologist who creatively uses chemistry to uncover the biological roles of carbohydrates. His pioneering research has yielded surprising discoveries, driven revision of dominant paradigms, and broadened our understanding of one of Nature's key building blocks. His work is illuminating the roles of carbohydrates in dreaded diseases, including cancer,

Parkinson's, and Alzheimer's - where his research is being translated to drive commercial development of innovative therapeutics.



**WAY, Lucan Ahmad | Department of Political Science, University of Toronto**

Lucan Ahmad Way is Distinguished Professor of Democracy at the University of Toronto. Called one of “the most prolific and respected scholars of democracy and dictatorship” by Foreign Affairs, Way has helped reshape both scholarly and popular understanding of the nature of authoritarianism and the threats to democracy during its current moment of peril.



**WEINSTOCK, Daniel | Department of Philosophy, McGill University**

Daniel Weinstock holds the Katharine A. Pearson Chair in Civil Society and Public Policy at McGill University, where he holds appointments in the Faculty of Law, the Department of Philosophy, the Max Bell School of Public Policy, and the School of Population and Global Health. He has published widely in a broad range of topics in moral, political, and legal philosophy. In 2023, he was inducted into the Order of Canada.



**WELLINGER, Raymund | Département de microbiologie et infectiologie, Université de Sherbrooke**

Raymund Wellinger arguably is one of the most creative and impactful innovators in telomere research worldwide. He developed gold-standard methods for telomeric DNA analyses, and his work repeatedly forced the field into unanticipated new directions. His foundational contributions also prompted the merger of the fields of telomere biology, DNA repair and DNA recombination. Further, his discoveries with research on telomerase RNA yielded breakthrough concepts for ribonucleoparticle composition and regulation.



**WILHELM, Steven | Department of Microbiology, The University of Tennessee**

Steven Wilhelm’s research has advanced the study of microbes in aquatic systems, including the role(s) of viruses as drivers of marine and freshwater biogeochemistry. His work established the factors that control the physiological ecology of toxigenic cyanobacteria in fresh waters, the bioavailability of trace elements in seawater, and the use of molecular tools to characterize microbial community function across aquatic systems. He has made contributions in biogeochemistry, molecular ecology, oceanography and limnology.



**WILKINSON, Lori | Department of Sociology and Criminology, University of Manitoba**

Lori Wilkinson is an internationally acclaimed researcher and advocate for immigrant populations. Her applied research in migration and refugee settlement has instigated policy changes in Canada that have facilitated the successful resettlement of refugees over the past twenty-five years. Her pioneering work on youth migration was a catalyst for policy reform that continues to impact how Canadian and international governments provide resettlement assistance.



**WRIGHT, Stephen | Department of Ecology and Evolutionary Biology, University of Toronto**

Stephen Wright is a world leader in the application of genomics to the study of plant evolution. A pioneer in the nascent field of evolutionary genomics, Wright provided fundamental insights into the pace and intensity of natural selection across genomes and the genomics of adaptation. He helped solve the evolutionary puzzle of how and why sex chromosomes degenerate, and some organisms self-fertilize.

## College Members



**ALARCON, Emilio | Department of Biochemistry, Microbiology and Immunology, University of Ottawa**

Emilio Alarcon is a husband, father, immigrant, and a person with Autism. He is also a science communicator and fierce advocate for inclusion, diversity, equity, accessibility, and social justice. As an Associate Professor at the University of Ottawa and the University of Ottawa Heart Institute, his research program bridges fundamental and applied sciences to redefine the translational use of biomaterials in medicine for patients with failing organs and tissues.



**ANDREWS, Nathan | Department of Political Science, McMaster University**

Nathan Andrews is an internationally recognized expert on the global political economy of resource extraction and development. A widely sought-after consultant for organizations including the African Development Bank, Geneva Centre for Security Sector Governance, and Lheidli T'enneh First Nation in Northern BC, Andrews' innovative, award-winning work on corporate governance, the social licence to operate, stakeholder engagement, and hybrid security governance has had broad impact on research, policy, and practice.



**ARETAKIS, Stefanos | Department of Computer and Mathematical Sciences, University of Toronto**

Stefanos Aretakis is an Associate Professor in the Department of Computer and Mathematical Sciences at the University of Toronto Scarborough. He strives to prove rigorous mathematical theorems that provide fundamental insights into the structure of the natural world. He pioneered a groundbreaking discovery of a novel instability of black holes, known as the Aretakis instability. Recently, he uncovered new observational signatures for maximally charged/maximally rotating black holes.



**ARJMAND, Mohammad | School of Engineering, The University of British Columbia**

Mohammad Arjmand is a renowned and award-winning researcher in the fields of nanotechnology and polymer engineering. He is an Assistant Professor at the University of British Columbia, where he leads the Plastic Recycling Research Cluster. Dr. Arjmand's research focuses on synthesizing multifunctional nanomaterials, developing their assemblies, and creating polymer nanocomposites. He is a highly cited and well-funded researcher with strong collaborations across various industries in Canada.



**AUGER-MÉTHÉ, Marie | Department of Statistics & Institute for Oceans and Fisheries, The University of British Columbia**

Marie Auger-Méthé is a highly original interdisciplinary researcher whose work in the development and application of novel statistical methods provides impactful insights to the ecology, movement, health, and behaviour of animals, advancing fundamental scientific knowledge that is crucial in formulating effective wildlife management and conservation policies. Her research brings new insights into the responses of ecologically important species, particularly charismatic marine species, to global environmental changes.



**BLAIN-MORAES, Stefanie | School of Physical and Occupational Therapy, McGill University**

Stefanie Blain-Moraes (PhD, PEng) is an Associate Professor at McGill University and the Canada Research Chair (Tier II) in Consciousness and Personhood Technology. She has spearheaded major scientific advances in the assessment of human consciousness and in the creation of technologies that support the personhood of minimally communicative individuals. She is an award-winning teacher, and actively engages in public outreach through the arts, media, and partnerships with community organizations.



**CHERNOVOL, Olha | Faculty of Law, University of Ottawa**

Olha Chernovol is a Ukrainian citizen who left Kyiv in March 2022 due to the Russian invasion of Ukraine. Over the past several years, she has worked primarily on matters related to integrity due diligence, anti-corruption, anti-money laundering and financing terrorism. Since 2020, she has been a member of the Ukrainian National Bar Association, and she has seven years of experience in legal practice in different areas of law.



**CLARE, Elizabeth | Department of Biology, York University**

Elizabeth Clare is a global leader in biodiversity science. She popularized the use of DNA in feeding ecology and food web analysis, pioneered the use of DNA filtered from the air for targeted species monitoring and demonstrated how planetary air quality networks can monitor global biodiversity. She is a popular science communicator volunteering for multiple STEM mentoring groups and hosts the BioAudio podcast for university students.



**COELHO, Leandro | Département d'opérations et systèmes de décision, Université Laval**

Leandro C. Coelho is world-renowned expert and a Full Professor of logistics optimization at Université Laval. He has several years of experience in industrial projects in Canada and abroad related to logistics challenges, particularly in mobility and greenhouse gas emissions. He holds the Canada research chair in integrated logistics and is interested in applying logistics and optimization techniques for the benefit of business and society.



**CORBIN, Joel | Metrology Research Centre, National Research Council Canada**

Joel C. Corbin is an internationally recognized researcher in aerosol and climate science. By developing innovative techniques to measure and understand wildfire- and combustion-related air pollution, his research addresses the grand challenge of understanding the future of Canada's changing air quality and climate. At the same time, Dr. Corbin's results guide policymakers on decisions that mitigate climate warming and reduce the toxicity of the air we breathe.



**DINH, Cao Thang | Department of Chemical Engineering, Queen's University**

Cao Thang Dinh is an Assistant Professor and Canada Research Chair (Tier II) in the Department of Chemical Engineering at Queen's University. A laureate of the 2023 Falling Walls Science Breakthrough of the Year, Dr. Dinh is recognized as an emerging leader in carbon capture and conversion. His groundbreaking work on stable electrochemical systems for converting carbon dioxide into fuels and chemicals has laid the foundation for the rapid advancement of this technology.



**DUBOIS, Elizabeth | Department of Communication, University of Ottawa**

As the University Research Chair in Politics, Communication and Technology, Elizabeth Dubois is internationally recognized for her pioneering research, public policy engagement, and creative knowledge mobilization activities. Her award-winning research responds to pressing societal and policy needs related to topics such as political bots and artificial intelligence, the flow of political (dis)information, public opinion development, digital literacy, citizenship, and elections. Dr. Dubois received her doctorate from the University of Oxford.



**DUERDEN, Emma | Department of Education, Western University**

Emma Duerden is a Canada Research Chair in Neuroscience and Learning Disorders and leads the Developing Brain research program. An Associate Professor at the University of Western Ontario, she earned her Bachelor's degree from McGill University (Psychology), trained at the Montreal Neurological Institute for her Master's (Neuroscience), completed her PhD at the Université de Montreal (Neuroscience) and her postdoctoral training at the Hospital for Sick Children (Developmental Paediatrics). Her research focuses on early life adversity and brain development.



**ERTZ, Myriam | Département des sciences économiques et administratives, Université du Québec à Chicoutimi**

Professor of Marketing, Director of LaboNFC (Laboratoire de recherche sur les Nouvelles Formes de Consommation), and Tier 2 Canada Research Chair in Technology, Sustainability and Society, Myriam Ertz's world-class contributions have deepened our understanding of responsible consumption and marketing, collaborative consumption and the collaborative economy, the circular economy, digital marketing, and of technology and innovation, including Industry 4.0.



**ESTILL, Laura | Department of English, St. Francis Xavier University**

Laura Estill is a Tier 2 Canada Research Chair in Digital Humanities and Professor of English at St. Francis Xavier University. Her research explores the reception of early modern English drama from its early print, manuscript, and performed contexts to today's online and classroom environments. Estill's award-winning research and teaching demonstrates how to use digital tools to ask questions about our past, our society, and our thinking and learning.



**FAROOQUE, Aitazaz | Canadian Centre for Climate Change and Adaptation, University of Prince Edward Island**

Aitazaz Farooque is serving as a Professor and Director at the Canadian Centre for Climate Change and Adaptation, University of Prince Edward Island. Aitazaz's research focuses on the development of climate-smart technologies for Canadian agriculture. Aitazaz has co-authored over 150 peer-reviewed articles and delivered many keynote/invited talks at international forums. Aitazaz has received various national awards in recognition of his exceptional contributions. Aitazaz has garnered over \$18M in research funding and trained a significant number of highly qualified personnel.



**GREEN, Stephanie | Department of Biological Sciences, University of Alberta**

Stephanie Green is an internationally recognized expert on biodiversity conservation in aquatic ecosystems. Dr. Green combines field, lab, and modeling techniques to investigate how human-mediated stresses such as biological invasion and climate change alter marine and freshwater food webs. Her collaborative, multidisciplinary research with scientists, policy makers, and non-profit organizations in over 20 countries has been recognized with the Earth Leadership Fellowship and a Sloan Research Fellowship in Ocean Sciences.



**HILLIER, Sean | School of Health Policy & Management, York University**

Sean Hillier is a Mi'kmaw scholar, member of the Qalipu First Nation and York Research Chair in Indigenous Health Policy & One Health. He is an internationally recognized thought leader in Indigenous health policy. He engages respectfully with Indigenous communities and their ways of knowing in developing and reforming health and research policies, especially in relation to HIV and One Health, to improve health outcomes for Indigenous Peoples.



**HOSSEIN, Caroline | Department of Global Development Studies, University of Toronto Scarborough**

Caroline Shenaz Hossein is Associate Professor of Global Development Studies at the University of Toronto Scarborough and founding member of the Diverse Solidarity Economies Collective (DISE), amplifying the solidarity economies of marginalized populations. She holds a Canada Research Chair Tier 2 in Africana Development & Feminist Political Economy and an Ontario Early Researcher Award. She has seven published books, including such titles as, *The Banker Ladies*, *Politicized Microfinance* and *Beyond Racial Capitalism*.



**HUG, Laura | Department of Biology, University of Waterloo**

Laura Hug, Associate Professor and Canada Research Chair at the University of Waterloo, is an internationally recognized scholar in environmental microbiology. Dr. Hug's work using multi omics approaches on landfill microbiomes has contributed to real-world solutions for anthropogenic environmental impacts. Dr. Hug's work was featured in major news outlets including the New York Times and The Atlantic, and she appeared as a science expert for TFO and BBC Radio.



**JANTCHOU, Prévost | Département de pédiatrie, Université de Montréal**

Prévost Jantchou is a clinical researcher at CHU Sainte-Justine and a Professor in the Department of Paediatrics in the Faculty of Medicine at the Université de Montréal. His research programme focuses on inflammatory bowel disease, environmental risk factors and improving the quality of patient care. He has set up a programme to develop and support medical students' research skills. Founding president of the INSPIRE Foundation, his mission is to increase diversity in medicine and research.



**JENABIAN, Mohammad-Ali | Département des sciences biologiques, Université du Québec à Montréal**

Mohammad-Ali Jenabian is a Full Professor and the holder of the CIHR Canada Research Chair in Immuno-Virology at the Université du Québec à Montréal (UQAM). Recognized for his multidisciplinary translational research and insights into the mechanisms of immune dysregulation and accelerated aging, as well as viral persistence in people living with HIV, this basic research scientist is a leading authority in the field of viral immunology.



**KADDOUM, Georges | Département de génie électrique, École de technologie supérieure**

Georges Kaddoum, a globally celebrated authority in the field of wireless communications, is highly acclaimed for his groundbreaking contributions to adaptive modulation and resource management. His prolific portfolio of over 300 publications and 13,400+ citations underscore his profound influence in the field. Professor Kaddoum's dedication to mentoring and his key editorial roles in esteemed IEEE journals vividly demonstrate his unwavering commitment to advancing the frontiers of wireless communications.



**KHO, Michelle | School of Rehabilitation Science, McMaster University**

Michelle Kho is Canada's most academically accomplished physiotherapist and clinician-scientist in critical care. A leading thinker in rehabilitation science following critical illness, she has made novel scientific contributions with global impact. Dr. Kho has spearheaded ambitious international clinical trials and advanced new rehabilitation research methods to improve the recovery of critical illness survivors. Committed to excellence in clinical scholarship, her methodological expertise informs national and international practice guidelines.



**KING, Kayla | Departments of Zoology and Microbiology & Immunology, The University of British Columbia**

Kayla King is a Professor and Canada Excellence Research Chair at UBC. She is an expert on the ecology and contemporary evolution of host-parasite interactions. Her research seeks to understand how host and parasite species coevolve, as well as to study the impact of biodiversity and environmental conditions on parasite transmission and virulence over time. Her findings have helped advance our understanding of adaptation and wildlife health in a changing world.



**KOUSSENS, David | Faculté de droit, Université de Sherbrooke**

David Koussens is a Full Professor in the Faculty of Law at the Université de Sherbrooke. A multidisciplinary jurist, he has held the Law, Religion, and Secularism Research Chair since 2012. His work, which has earned him international recognition and numerous awards in Canada and abroad, explores the evolution of the legal models of secularism and the management of religious pluralism in liberal democracies. He has published *L'épreuve de la neutralité* (Bruylant, 2015) and *Secularism(s) in Contemporary France* (Springer, 2023).



**LEMIRE, Mélanie | Département de médecine sociale et préventive, Université Laval**

Mélanie Lemire is renowned for her community-based research projects dealing with environmental contaminants, oceanic change, and nutrition in relation to the health of Indigenous peoples and coastal populations. She is the designated expert for Canada on the Human Health Assessment Group of the Arctic Monitoring and Assessment Programme (HHAG-AMAP). Dedicated to finding solutions for a healthier, fairer and more sustainable planet, her work is used to develop programmes and policies at the local, federal and international level. She is also co-founder of the Mange ton Saint-Laurent collective, which advocates for innovative solutions which would bring the exceptional resources of the St. Lawrence River back to the plates of Eastern Canada.



**LEWIS, Stephen | Department of Psychology, University of Guelph**

Stephen Lewis is a Research Leadership Chair and Professor in the Department of Psychology at the University of Guelph. His research program centres people's lived experience of non-suicidal self-injury and related mental health difficulties. An internationally renowned researcher and advocate, he challenges dominant theoretical and clinical paradigms with a resulting impact reaching far beyond academia to shape social media policy, create practical training, and empower individuals to work toward recovery.



**LI, Xia | Department of Chemical and Materials Engineering, Concordia University**

Xia Li is an Associate Professor of Chemical and Materials Engineering, Concordia University Research Chair in high-energy rechargeable batteries, and Associate Director of the Concordia Collaborative Centers on Energy and its Transition (C2ET). Dr. Li's research focuses on developing advanced materials for energy storage devices such as lithium-/sodium-based batteries and solid-state batteries, with the goal of understanding the synthesis-structure-performance relationship and applying that fundamental understanding to new battery technologies.



**LIVERNOIS, Jonathan | Département de littérature, théâtre et cinéma, Université Laval**

Considered one of the most relevant minds of his generation, Jonathan Livernois is an essayist, researcher and Full Professor at Université Laval. His work on the literary and intellectual history of nineteenth- and twentieth-century Quebec explores the complex relationship between literature and politics, and appeals to both academic and lay audiences. A history columnist for Radio-Canada and a regularly invited expert in the media, he is the author and co-author of several books, including the award-winning essay *Entre deux feux. Parlementarisme et lettres au Québec*.



**MAGNAN, Marie-Odile | Département d'administration et fondements de l'éducation, Université de Montréal**

Marie-Odile Magnan is a Full Professor in the Faculty of Education at the Université de Montréal. She holds the Chair in Ethnic Relations and is Director of the FRQSC Inclusion and Ethnocultural Diversity in Education team. Her research, recognised internationally for its impact on the transformation of school institutions, focuses on EDI policies and practices of educational staff, as well as on academic inequalities from primary to post-secondary education, as recounted by young people and staff from racialized groups.



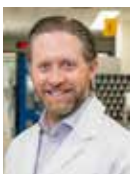
**MAMMEI, Juliette | Department of Physics and Astronomy, University of Manitoba**

Juliette Mammei is an Associate Professor in the Department of Physics and Astronomy at the University of Manitoba, where she is internationally recognized in the field of parity-violating electron scattering. She studies nuclear and nucleon structure and tests the Standard Model of Particles and Interactions. Dr. Mammei is dedicated to improving First Nations student outcomes and is an advocate for nuclear physics education and equity, diversity, and inclusion within Canada.



**MCCARTNEY, Shelagh | School of Urban and Regional Planning, Toronto Metropolitan University**

An award-winning architect and scholar, Shelagh McCartney's innovative partnership-based work addresses complex housing issues across Canada to build community wellness. She is best known for collaborations with First Nations in Northern Ontario and the NWT to co-create housing solutions that support community wellbeing and self-determination, resulting in the first regional First Nations led housing strategy in Canada. She was elected Fellow of the Royal Architectural Institute of Canada in 2021.



**MILLER, Matthew | Department of Biochemistry and Biomedical Sciences, McMaster University**

Matthew Miller is an internationally-renowned expert in viral pandemics and vaccinology at McMaster University. He has made significant contributions to pandemic preparedness and the development of broadly-protecting vaccines and therapeutics against pathogens like influenza virus and SARS-CoV-2. His unique approaches to therapeutic development, including inhaled delivery of vaccines and therapeutics to treat and prevent respiratory infections, has been paradigm-shifting.



**MIRON, Véronique | Department of Immunology, University of Toronto**

Véronique Miron is the John David Eaton Chair in Multiple Sclerosis (MS) Research at Unity Health Toronto and Full Professor at the University of Toronto. She conducts world-leading research on how the insulation surrounding nerve fibres in the central nervous system, called myelin, is supported in health and degenerated or malformed in common neurological conditions like MS or cerebral palsy. Her findings delineate new pathways to treat neurological conditions.





**NOORI, Narges | Department of Art and Design, University of Alberta**

Narges Noori is an author and illustrator whose children's picture books focus on empowering women. With over eight years as an instructor at Kabul University's fine arts faculty and a background in graphic design, she dedicated her career to education and art. Her work includes illustrating for various publishers and creating influential books for young readers. Amidst the Taliban's rise, she received a fellowship from the Artists at Risk Program and is now in residence at the University of Alberta.



**PEARSE, Linda | Department of Music, Mount Allison University**

Linda Pearse fuses insight from the performance of early art music with archival research to create intercultural artistic works and scholarly publications that offer opportunities for impactful public-facing outreach. As the Canada Research Chair in Music, Contact, and Conflict, Pearse's interdisciplinary research network cultivates nuanced understandings of musical and sonic entanglements between early modern cultures, and related aspects of identity and intercultural relationship in ways that resonate with contemporary issues.



**PLANTE, Isabelle | Didactique, Université du Québec à Montréal**

Isabelle Plante is a Full Professor in the Department of Didactics at UQAM, where she studies how the psychosocial and school adjustment of young people impacts the schooling experience of elementary and high-school boys and girls. As holder of the Canada Research Chair on Gender Differences in School, her publications, engagement activities with schools and regular media appearances have produced significant scientific, educational and social benefits.



**PRASAD, Ajnesh | EGADE Business School, Technologico de Monterrey**

Ajnesh Prasad is a Canadian social scientist and the GIEE Chair in Leadership and Organizational Effectiveness at Tecnologico de Monterrey's EGADE Business School in Mexico City, Mexico. A past holder of a Canada Research Chair, he is an internationally recognized scholar in the area of equity, diversity, and inclusion in organizations. An engaged and prolific researcher, his scholarship leverages contemporary social thought to identify strategic paths by which to undo institutionalized cultural inequalities and make organizations more inclusive spaces.



**PUGH, Trevor | Department of Medical Biophysics, University of Toronto**

Trevor Pugh is a world-leading cancer researcher and clinical molecular geneticist at the forefront of precision medicine. As holder of the Canada Research Chair in Translational Genomics, he uses genome sequencing to understand causes of cancer, guide treatment of patients, and detect early disease using blood tests. Key to this work are global collaborative networks that enable knowledge gained from treating each patient to improve the treatment of everyone.



**RASH, Joshua | Department of Psychology, Memorial University of Newfoundland**

Joshua Rash is a leader in Clinical Health Psychology whose research has made a profound impact on people living with chronic conditions. His innovative work bridges many fields, including Psychology and Medicine where he has made enduring contributions to the well-being of people with pain, mental health and substance use concerns. His research has influenced government agencies, and improved equitable access to an integrated continuum of mental health services.



**REID, Andrea | Institute for the Oceans and Fisheries, The University of British Columbia**

Andrea Reid is a Nisga'a citizen and scientist engaged in community-partnered work on fish and fisheries, critically examining their pasts and envisioning just futures. Her research and teaching, based out of the Nass River Valley, centre approaches that are intergenerational, land-based, and relational. Dr. Reid is a Canada Research Chair in Indigenous Fisheries Science, leading the Centre for Indigenous Fisheries at The University of British Columbia.



**ROBINSON, Dylan | School of Music, The University of British Columbia**

Dylan Robinson is a world-recognized authority on Indigenous music, public art, and performance and their engagements with settler colonial politics of reconciliation and redress. His interdisciplinary scholarship, curatorial work, and facilitation of collaborative gatherings have cut new trail in understanding Indigenous sonic culture and other expressive arts and their work in the world. His research and practice have guided global conversations about Indigenous cultural heritage and artistic production.



**ROGERS, Maria | Department of Psychology, Carleton University**

The long-term outcomes of psychological disorders in childhood are significant, including unsustainable employment, lower socio-economic status, and poorer overall physical health. Maria A. Rogers, Canada Research Chair in Child and Youth Mental Health and Well-being, is internationally recognized for her community-engaged research that advances the study of neurodevelopmental and mental health disorders in early life stages. Rogers' scholarly and clinical work directly and positively impact Canada's children and youth.



**SADARANGANI, Manish | Department of Pediatrics, The University of British Columbia**

Manish Sadarangani is an international expert in translational vaccinology, whose work uniquely encompasses laboratory, clinical and epidemiologic research. His scientific expertise enables him to respond quickly to changing priorities to tackle diverse knowledge gaps rapidly and produce high quality research findings to inform policy. Specifically, his research improves understanding of immune responses to vaccination, identifies high-risk groups to target immunization programs, and evaluates vaccine effectiveness to inform evidence-based policy.



**SALAMI, Oluwabukola | Department of Community Health Sciences, University of Calgary**

Bukola Salami is a Professor at the Department of Community Health Science, University of Calgary. She has been involved in over 90 studies totalling around \$250 million. She is a nationally and internationally recognized leader in Black peoples health and immigrant health whose work has contributed to the creation of the first mental health clinic for Black Canadians in Western Canada and the first fully interdisciplinary university-based mentorship program for Black youths in Canada.



**SEOW, Hsien | Department of Oncology, McMaster University**

Hsien Seow is the Canada Research Chair in Palliative Care and Health System Innovation and a Professor in the Department of Oncology, McMaster University. He publishes healthcare and policy research focused on improving care for patients with serious illness. He is the co-author of Hope for the Best, Plan for the Rest: 7 keys for navigating a life-changing diagnosis, and the co-host of The Waiting Room Revolution podcast.



**SHAH, Jai | Department of Psychiatry, McGill University**

Jai Shah is Associate Professor at the Douglas Hospital and McGill University. Working with a range of stakeholders, he is an international leader in understanding trajectories from early phases of mental health problems to severe mental illnesses such as psychosis. His efforts have advanced transdiagnostic perspectives and clinical staging in psychiatry, and are influencing the design of early intervention and youth mental health service systems in Canada and beyond.



**SHARIFF, Azim | Department of Psychology, The University of British Columbia**

Azim Shariff is a Professor and Canada 150 Research Chair in the Department of Psychology at the University of British Columbia. He is one of the world's leading young scholars in the areas of social psychology. He has gained international acclaim for his research, which delves into subjects such as the connection between religion and morality, and the way that people emotionally and intellectually react to emerging technologies.



**SHASTRI, Bhavin | Department of Physics, Engineering Physics & Astronomy, Queen's University**

Bhavin Shastri, a Canada Research Chair in Neuromorphic Photonic Computing, explores new forms of computing by integrating photonics, artificial intelligence, and quantum information. He serves as Co-Director of NUCLEUS, a pan-Canadian photonic computing program funded by NSERC CREATE. He received the 2022 SPIE Early Career Award and the 2020 IUPAP Young Scientist Prize in Optics "for his pioneering contributions to neuromorphic photonics," a term he co-coined.



**SHERREN, Kate | School for Resource and Environmental Studies, Dalhousie University**

Kate Sherren is a Professor of Environmental Social Science at Dalhousie University focusing on the human dimensions of natural resource management and landscape change. Dr. Sherren's innovative approach leverages theory and visual methods to tackle a range of critical sustainability challenges such as sustainable agriculture, renewable energy, coastal adaptation and urban form. A compelling communicator committed to mobilizing research, she enriches important societal conversations with social science insights.



**SKIBSRUD, Johanna | Department of English, University of Arizona**

Johanna Skibsrud is the author of numerous works of fiction, poetry and non-fiction including the Scotiabank Giller Prize winning novel *The Sentimentalists* and, most recently, the essay collection *Fool* (Routledge 2024) and a poetry collection, *Medium* (Book\*hug 2024). Born in Nova Scotia, she completed her PhD in English Literature at the Université de Montréal and is currently Professor of English and Creative Writing at the University of Arizona.



**STARK, Heidi Kiiwetinepinesiik | School of Indigenous Governance, University of Victoria**

Heidi Kiiwetinepinesiik Stark's innovative approaches to Indigenous law and governance have advanced the restoration of Indigenous political authority and jurisdiction. Centring Anishinaabe political thought, her work transforms our understandings of treaty and promotes a radical ethic of relationality for how we live together as treaty partners, as communities within which conflict and harms arise and as humans in relation with the environment.



**TWOREK, Heidi | Department of History & School of Public Policy and Global Affairs, The University of British Columbia**

Heidi Tworek is Canada Research Chair, Professor of History and Public Policy, and Director of the Centre for the Study of Democratic Institutions at the University of British Columbia, Vancouver. Multi-award-winning author of one book and over 45 journal articles and book chapters, Tworek researches the global history and policy of communications and media. She is a Senior Fellow at the Centre for International Governance Innovation.



**WHITE, Martha | Department of Computing Science, University of Alberta**

Martha White is an Associate Professor of Computing Science at the University of Alberta and a Fellow of Amii. She holds a Canada CIFAR AI Chair, a Tier 2 Canada Research Chair in Reinforcement Learning and received IEEE's "AI's 10 to Watch: The Future of AI" award in 2020. Her research focus is on developing algorithms that learn to adapt continually, with a focus on more sustainable systems.



**ZHANG, Ning | Department of Electrical and Computer Engineering, University of Windsor**

Ning Zhang is an Associate Professor and Canada Research Chair in Internet of Vehicles at University of Windsor. He is internationally renowned for his outstanding contribution to the performance analysis and optimization of connected vehicles and wireless networks. His research has been widely recognized in the global research community. His accomplishments include being an IEEE Distinguished Lecturer, a Highly Cited Researcher, and the recipient of numerous best paper awards.

# 2024 Award Winners

## Alice Wilson Awards

*To three women of outstanding academic qualifications in the Arts and Humanities, Social Sciences or Science who are entering a career in scholarship or research at the postdoctoral level.*



**DE SHALIT, Ann | School of Social Work, University of Windsor**

Ann De Shalit's postdoctoral research considers the political and media rhetoric framing Canada's safe(r) supply programming, a harm reduction measure that responds to rising rates of overdose and death from the unregulated toxic drug supply. The project explores impacts of misinformed rhetoric on program delivery and safety of harm reduction users and workers. It is supervised by Dr. Adrian Guta, Associate Professor at University of Windsor's School of Social Work.



**REZK, Eman | Department of Electrical and Computer Engineering, University of Waterloo**

Eman Rezk is an NSERC Postdoctoral Fellow at the Faculty of Engineering, University of Waterloo. Eman obtained her PhD in Computational Science and Engineering from McMaster University. Her research is centred on the interface of artificial intelligence and healthcare. Eman's work created a new research thrust on equitable skin cancer diagnosis, harnessing the power of artificial intelligence to address the lack of racial data diversity.



**SHAPIRO, Janna | Department of Immunology, University of Toronto**

Janna Shapiro obtained her PhD from the Johns Hopkins Bloomberg School of Public Health in 2022. She was then appointed as a Postdoctoral Fellow at the University of Toronto in the Department of Immunology and the Center for Vaccine Preventable Diseases. Her research uses interdisciplinary methods to optimize vaccine outcomes in special populations, with current work on immunocompromised children with leukemia and rheumatic diseases.

## Bancroft Award

*For instruction and research in the science of geology*



**KONHAUSER, Kurt | Department of Earth & Atmospheric Sciences, University of Alberta**

Kurt Konhauser stands as a prominent figure in the field of Geobiology. The central theme running through his research is the recognition that life shapes the environment to the same degree that environmental change drives the spatial and temporal distribution of life. Through his active promotion of the field, which includes writing the textbook "Introduction to Geomicrobiology", assuming the role of Editor-in-Chief of the journal "Geobiology", and founding of the Geobiology Society, it has matured into a prolific research frontier.

## Flavelle Medal

*For meritorious achievement in biological science*



**FAHRIG, Lenore | Department of Biology, Carleton University**

Lenore Fahrig has created paradigm shifts in our understanding of habitat connectivity and fragmentation, road ecology, and sustainable agriculture, helping define the fields of landscape ecology and road ecology. Her citation rate is among the highest in ecology, and her work is frequently used in environmental policy. Dr. Fahrig's recent work showing the disproportionate cumulative value of small habitat patches overturns decades of bias and empowers small-scale habitat protection efforts.



## Innis-Gérin Medal

*For a distinguished and sustained contribution to the literature of the social sciences*



**VALLERAND, Robert | Département de psychologie, Université du Québec à Montréal**

Robert Vallerand is one of the most influential social psychologists, particularly with respect to motivational processes. His theoretical, methodological, and empirical contributions have strongly influenced several fields, such as those of intrinsic and extrinsic motivation and the concept of passion. He has served as president of several learned societies and has received several national and international awards. He has also trained numerous students who are now university professors across Canada and in Europe.



## J.B. Tyrrell Historical Medal

*For outstanding work in the history of Canada*



**HIGH, Steven | Department of History, Concordia University**

Steven High's innovative approach to oral and public history, especially in relation to the study of the structural violence of deindustrialization, has earned him a global reputation for excellence in historical research. His award-winning research has put Canada at the centre of important global conversations about what a "just transition" might look like given past failures. He is a public-facing scholar, long committed to engaging wider publics.



## John L. Synge Award

*For outstanding research in any of the branches of the mathematical sciences*



**TSIMERMAN, Jacob | Department of Mathematics, University of Toronto**

Jacob Tsimerman works in the field of arithmetic and complex geometry. He graduated from Princeton in 2011 under Peter Sarnak, and is currently the Ted Mossman chair at the University of Toronto. His major works include the resolution of the Andre-Oort and Griffiths conjectures.

## Kitty Newman Memorial Award

*For outstanding contributions from an emerging scholar in the field of philosophy*



**SHARIFF, Azim | Department of Psychology, The University of British Columbia**

Azim Shariff is a Professor and Canada 150 Research Chair in the Department of Psychology at the University of British Columbia. He is one of the world's leading young scholars in the areas of social psychology. He has gained international acclaim for his research, which delves into subjects such as the connection between religion and morality, and the way that people emotionally and intellectually react to emerging technologies.

## Lorne Pierce Medal

*For an achievement in critical or imaginative literature*



**PANOFSKY, Ruth | Department of English, Toronto Metropolitan University**

Award-winning scholar and poet Ruth Panofsky is a leading authority on the history of Canadian publishing and authorship and Canadian Jewish literature. Her pioneering studies have uncovered the contributions of previously neglected writers and editors, publishers and agents, illuminating their role in shaping modern Canadian literary culture and exploring the intricate relationships between gender, culture, and tradition in their work and careers. Her scholarship has deepened our understanding of women's literary lives.



## McLaughlin Medal

*For important research of sustained excellence in medical science*



**COOK, Deborah | Department of Medicine, Health Research Methods, Evidence, and Impact, McMaster University**

Deborah Cook is a world-renowned clinician-scientist in patient-centered critical care medicine. Her multicenter randomized clinical trials have informed guidelines, reducing the toll of death and disability of critical illness world-wide. As a Distinguished Professor at McMaster University and practising critical care consultant at St. Joseph's Healthcare Hamilton, Dr. Cook's science spans advanced technology, preventing complications, and research ethics. Her end-of-life research has enhanced humanism in the intensive care unit.



## Michael P. Païdoussis Medal

*For outstanding contributions to research, education and leadership in applied mechanics*



**HUANG, Yonggang | Departments of Mechanical Engineering and Civil and Environmental Engineering, Northwestern University**

Yonggang Huang is a pioneer for two transformative technologies—stretchable electronics, and deterministic 3D assembly. His vision laid the scientific foundations in these areas leading to important applications in bio-integrated/bio-inspired electronics and medicine. The profound impact he has had on engineering science has led to his election as a member of the US National Academy of Engineering, National Academy of Sciences, and a foreign member of the Royal Society.



*This award is made possible with the support of the Canadian National Committee for the International Union of Theoretical and Applied Mechanics (CNC-IUTAM).*

## Mirosław Romanowski Medal

*For scientific work relating to environmental problems*



**MULLIGAN, Catherine | Department of Building, Civil and Environmental Engineering, Concordia University**

Catherine Mulligan is an internationally recognized expert in the decontamination of water, soils, and sediments, and a pioneer of green remediation technologies. She is the founding Director of the Concordia Institute of Water, Energy and Sustainable Systems. Her fundamental and applied contributions to research and her service to the engineering profession have been recognized with prestigious awards, including the Fellowship of the Royal Society of Canada.



## Rutherford Memorial Medal (Chemistry)

*For outstanding research in chemistry*



**LUNDGREN, Rylan | Department of Chemistry, University of Alberta**

Rylan Lundgren is an internationally recognized expert in the fields of chemical synthesis and catalysis. Through detailed mechanistic investigations, his research provides fundamental insights into how abundant feedstock molecules can be converted to high-value products, by the loss and recapture of CO<sub>2</sub>. These concepts enable new chemical processes for the controlled preparation of molecules with precise three-dimensional structure and for the late-stage isotopic labeling of drugs and bioactive compounds.



## Rutherford Memorial Medal (Physics)

*For outstanding research in physics*



**HLOŽEK, Renée | David A. Dunlap Department of Astronomy & Astrophysics and the Dunlap Institute, University of Toronto**

Renée Hložek is one of the world's leading young cosmologists. Her experimental and theoretical analyses of the cosmic microwave background and the distribution of matter and galaxies in the Universe on large scales illuminate the nature of dark matter and dark energy. She studies the cosmos from its first rapid expansion, to its eventual accelerated expanding-state end. She also applies her statistical tools/ methods across disciplines to answer questions in neuroscience and biology.



## Ursula Franklin Award in Gender Studies

*For contributions to furthering our understanding of issues concerning gender*



**MAHON, Rianne | Department of Sociology and Anthropology, Carleton University**

Rianne Mahon's theoretically informed empirical research has broad international influence. She is Canada's top feminist scholar comparing the consequences of policy choices about childcare, care work and women's migration, assessing whether social policy in Canada, Europe, Asia or Latin America will retrench or advance gender equality and inequalities. Her analyses from the local to the international inform the academy while also sought after and influential in the world of practice.

## Yvan Allaire Medal

*For outstanding contributions in governance of public and private organizations*



**NAPOLEON, Valerie | Faculty of Law, University of Victoria**

Val Napoleon is Professor and Law Foundation Chair of Indigenous Justice and Governance at the University of Victoria. She researches, publishes, and mobilizes knowledge about Indigenous legal traditions in relation to questions of feminism, citizenship, self-determination, lands, and governance. She leads Canada's Indigenous Law Research Unit, which works with communities and organizations across Canada, to restore Indigenous laws and legal processes. She co-founded the JD/JID (dual law degree program in Indigenous law and Canadian law), and she is leading a new major initiative to holistically rebuild Indigenous legal orders.



*This award is made possible with the support of the Institut sur la gouvernance d'organisations privées et publiques (IGOPP).*

## Justice Rosalie Silberman Abella Prize

*The Justice Rosalie Silberman Abella Prize is presented annually to a graduating law student in each of the law schools in Canada who is most likely to positively influence equity and social justice in Canada or globally upon graduation.*



**ABRAHA, Semhar | University of Calgary**

Semhar Abraha, a distinguished law student at the University of Calgary, has earned numerous awards and held various leadership roles. Abraha has made impactful contributions to addressing and resolving social and human rights issues faced by Black and minority individuals. She founded the Violet King Engaged Scholar Award, expanded the African Studies program, and established sustainable OERs. Additionally, Abraha was instrumental in coordinating the inaugural Black celebration to honour the outstanding Black students and address the systemic issues.



**ALBERT-ROCHETTE, Michelle | Université Laval**

Michelle Albert-Rochette is completing a Master's degree in Law at Université Laval. Her main interest is the societal impact of digital technologies and AI. She has been involved in various projects that promote diversity and tackle discrimination. She will be completing her articling at the Quebec Court of Appeal.



**AYINA, Raphaëlla | Université d'Ottawa (Droit civil)**

Raphaëlla Ayina, a law student at the University of Ottawa, has made a significant impact through her dedication to social justice and systemic change. As a research assistant in criminal law, she explored the presence of systemic racism within the criminal justice system. In recognition of her contributions, she was awarded the Undergraduate Research Opportunities Program Fellowship to study the importance of diversity in the Canadian judiciary. Her involvement extends beyond academia; she represents the African NGO Ordre Suprême des Ancêtres at the United Nations, advocating for the rights and needs of traditional African communities. She has also been actively involved with the Black Law Students Association of Canada and the Black Law Students Association of her Law Faculty. Raphaëlla plans to continue advocating for and supporting marginalized communities during her graduate studies in order to bring about meaningful change at the national and international levels.



**BESHAY, Mary | Lakehead University**

Mary Beshay is a graduate from Lakehead University's Bora Laskin Faculty of Law. While at Lakehead, Mary has collaborated with her student community, worked in the Newcomer Legal Clinic, and volunteered locally. Mary has a strong passion and focus on improving access to justice, empowering minorities, and narrative/storytelling.



**CAO, Yixin | Université du Québec à Montréal**

Yixin Cao lives on unceded Kanien'kehà:ka land. Her involvement at the cliniX (Social Justice Clinic at the Université du Québec à Montréal) and at the Mobile Legal Clinic has allowed her to critically reflect on the false equivalence between law and justice. They're interested in public legal education and community empowerment.



**CHRIST, Michael | University of Alberta**

During his studies, Michael Christ was heavily involved with the FACL University of Alberta and Western Chapters. He was fortunate to have worked alongside brilliant individuals to promote equity and opportunity in law school communities through these organizations. He looks forward to continuing his legal career at McMillan LLP in Vancouver.





**GOFF, Caeleb | University of Toronto**

Caeleb Goff came to law school with one specific goal in mind: to use her knowledge and skills to work toward a more just and equitable society. Drawing from her experience as a social worker and a first-generation student, Caeleb committed her time at UofT law to bettering her community, serving as the Vice President - Student Life of the Student's Law Society, and as an executive of the First Generation Network and the Peer Mental Health Support Program. As a clinic student at both the David Asper Centre for Constitutional Rights and Advocates for Injured Workers, Caeleb worked to address issues of access to justice and socioeconomic inequality. Earning certificates in Sexual Diversity and Gender Studies as well as Aboriginal Legal Studies upon graduation, Caeleb is now clerking for Chief Justice Marc Richard at the New Brunswick Court of Appeal.



**GRANOVSKY, Brooke | Western University**

Brooke Granovsky is a graduate of Western University's Faculty of Law. During law school, Brooke acted as a research assistant, peer mentor, public legal education speaker, student caseworker, and criminal law club president while fostering interest in progressive legal issues. She looks forward to articling with MAG-Constitutional Law Branch.



**HARRY, Desron | University of Ottawa (Common Law)**

Desron Harry graduated from the University of Ottawa Faculty of Law in 2024. During law school, he was a senior board member on the Ottawa Law Review and a writing leader with the Legal Writing Academy. He also proudly served as the National Chair 2023-2024 of the Black Law Students' Association of Canada and remains committed to supporting and uplift others. He is currently articling at DLA Piper (Canada) LLP in Toronto.



**HASSANI, Nillab | Queen's University**

As the daughter of Afghan immigrants, Nillab Hassani came to law school with the desire to use her privilege to help marginalized communities. She completed the Public International Law certificate at Bader College. She was an International Law Legal Affairs Intern with UNRWA in East Jerusalem, Palestine. During her studies, she was a caseworker with the Queen's Prison Law Clinic and an editor for the PKI Global Justice Journal. She strives to continue her advocacy for the protection and application of the law to the most destitute domestically and globally.



**KING, Abigayle | University of New Brunswick**

Abigayle King graduated from the University of New Brunswick's Faculty of Law in 2024. She served as Chair of the Student Disciplinary Committee in her final year, having been involved with the committee throughout her degree. Abigayle was heavily involved in the UNB Legal Clinic, which focused on enhancing access to justice. Abigayle will be articling with Public Prosecution Services, where she is committed to furthering social justice and equality across New Brunswick.



**MALEC, Brooklynn | University of Victoria**

Brooklynn Malec (she/her) is incredibly honoured to receive this award. During her time at the University of Victoria she volunteered and worked as a Program Coordinator with Pro Bono Students Canada. Working with PBSC allowed her to continue her work in LGBTQIA2S+ advocacy and to support a broader section of her community.



**MOCH, Melinda | University of Manitoba**

Melinda Moch is proudly Red River Métis, with community and family ties to Winnipeg and Manitoba’s Interlake. She sits on the Indigenous Advisory Council of the Federation of Law Societies of Canada, and sat as President of the National Indigenous Law Students’ Association for the 2022-2023 term. Melinda is an involved mother of five children, and has had a lengthy career as a Paralegal prior to and while attending Law School. She plans to spend her legal career assisting Indigenous communities in advancement through economic development projects.



**MORIN, Mikaël | Université de Montréal**

Mikaël Morin has been involved in youth organizations for several years. Whether as a member of the Quebec Youth Parliament or of Concertation Montréal, he is keen to encourage young people to get involved as citizens. During his time at the Université de Montréal, Mikaël was involved in a number of student committees, including Lawyers without Borders Canada and the Canadian Association of Refugee Lawyers.



**NAVANATHAN, Sarika | University of Windsor**

Sarika Navanathan, valedictorian of her graduating class, held leadership positions with the Student Law Society and Pro Bono Students Canada and founded the Windsor Law Tamil Students’ Association. She has received numerous awards for her international law, social justice, and leadership work within and outside school. She is also a singer who is passionate about the arts and community-building.



**PARTH, Gregory | Thompson Rivers University**

Greg Parth graduated from the Thompson Rivers University Faculty of Law in 2024. He volunteered for the TRU Community Legal Clinic, Pro Bono Students Canada, and Amici Curiae Friends of Court. He also worked as a research assistant for the law faculty. He is currently articling with Dentons Canada LLP.



**PERSAD, Neesha | University of Saskatchewan**

Neesha Persad is currently articling at BD&P in Calgary. Neesha has always been passionate about promoting access to justice and access to student opportunities through community involvement. Some of the ways she has done this are through advocating for students by sitting on the Law Students’ Association, volunteering with Pro Bono Students Canada, and doing community research. She is excited to continue her active community involvement within her practice as a future lawyer.



**ROSSIER, Zoé | Université de Moncton**

Zoé Rossier is a Franco-Albertan who is passionate about access to justice. During her first year of law school, she worked at the New Brunswick Refugee Clinic and then became a Pro Bono Coordinator. She believes that wherever you go, you can always find time to help others. She is currently an articling student at Bishop & McKenzie in Edmonton, Alberta.



**ROUGAIBI, Malika | Université de Sherbrooke**

During her studies at the Université de Sherbrooke, Malika Rougaibi worked as a volunteer with PBSC, secretary of the Health Law Committee and an administrator. She is currently completing her Master’s degree in Law and Life Sciences, for which she is studying the impact of “deep fakes” in the Canadian legal environment.



**WALWYN, Zoë | Toronto Metropolitan University**

Zoë Walwyn graduated from Lincoln Alexander School of Law in 2024. Zoë co-founded the school's Pardons Clinic which helps remove the barriers to access for those applying for criminal record suspensions. Throughout her time at law school, Zoë was actively involved in the Lincoln BLSA chapter and acted as their EDI Officer in her 2L year. She hopes to continue her advocacy for marginalized voices throughout her legal career.



**WARDROP, Caitlin | The University of British Columbia**

Caitlin Wardrop (she/her) is passionate about the intersections between law and climate change, equality rights, and access to justice. During law school, she worked on research focused on climate change litigation and was involved with the Pacific Centre for Environmental Law and Litigation. She also worked as a family law advocate, where she provided pro bono legal services to newcomers to Canada. She is a passionate advocate, having won the top overall oralist award at the Wilson Moot, which focused on s. 15 equality rights.



**YARED, Soliyana | York University**

Throughout her time at Osgoode, Soliyana Yared has committed to being a social justice advocate. She advanced refugee policy reform at the Refugee Law Lab, supported women experiencing intimate partner violence through the Barbra Schlifer Commemorative Clinic and co-authored a Black applicant stream proposal with Osgoode BLSA. She will soon article at an immigration law firm before clerking at the Federal Court.



**YOUNG, Kyla | Dalhousie University**

Kyla Young graduated with a specialization in Health Law and Policy. She resurrected the Halifax branch of the Women's Legal Education and Action Fund championing reproductive rights and access to health care. She also sat on the Dalhousie Feminist Legal Association executive and volunteered with the Elizabeth Fry Society.

# Institutional Members

As a member-based organization, the RSC has relied historically on the annual support of individual members elected for their achievements and commitment to contribute to a better future. Since 2004, a membership category for institutions has enabled the RSC to significantly expand its structure as well as its scope of activities. These are the Institutional Members of the RSC:



## Life Members

Each year the RSC recognizes its Life Members—those who have been Fellows for 25 years. This year's Life Members are those who were elected in 1999.

**Lorne Babiuk**, University of Alberta, Academy of Science

**James Beaudoin**, National Research Council, Academy of Science

**David Bentley**, Western University, Academy of the Arts and Humanities

**André Blais**, Université de Montréal, Academy of Social Sciences

**Rhoda Blostein**, McGill University, Academy of Science

**Roberta Bondar**, Trent University, Academy of Science

**John Borden**, Simon Fraser University, Academy of Science

**Jacques Bouchard**, Université de Montréal, Academy of the Arts and Humanities

**Reuven Brenner**, McGill University, Academy of Social Sciences

**Fernand Carton**, Université Nancy 2, Academy of the Arts and Humanities

**Neena Chappell**, University of Victoria, Academy of Social Sciences

**Rebecca Cook**, University of Toronto, Academy of Social Sciences

**Stanley Coren**, The University of British Columbia, Academy of Social Sciences

**Philip Currie**, University of Alberta, Academy of Science

**Jagannath Das**, University of Alberta, Academy of Social Sciences

**Kenneth Denman**, University of Victoria, Academy of Science

**Anne-Marie Di Scullo**, Université du Québec à Montréal, Academy of the Arts and Humanities

**David Dyzenhaus**, University of Toronto, Academy of the Arts and Humanities

**Michel Fortin**, Université Laval, Academy of Science

**Marcel Fournier**, Université de Montréal, Academy of Social Sciences

**Ratna Ghosh**, McGill University, Academy of Social Sciences

**Frank Graham**, Istituto di Ricerca di Biologia Molecolare, Academy of Science

**Pierre Hansen**, Université de Montréal, Academy of Social Sciences

**Fernand Harvey**, Institut national de la recherche scientifique, Academy of Social Sciences

**Michel Hébert**, Université du Québec à Montréal, Academy of the Arts and Humanities

**Michael Herren**, York University, Academy of the Arts and Humanities

**Jack Hirsh**, McMaster University, Academy of Science

**Jack Hodgins**, University of Victoria, Academy of the Arts and Humanities

**Harold Jennings**, National Research Council, Academy of Science

**Gregory Kealey**, University of New Brunswick, Academy of the Arts and Humanities

**Nabil Khoury**, Université Laval, Academy of Social Sciences

**Ronald Kluger**, University of Toronto, Academy of Science

**Réjean Landry**, Université Laval, Academy of Social Sciences

**David Lockwood**, National Research Council, Academy of Science

**Michael Mackey**, McGill University, Academy of Science

**R.J. Dwayne Miller**, University of Toronto, Academy of Science

**Ian Putnam**, University of Victoria, Academy of Science

**Benjamin Rusak**, Dalhousie University, Academy of Science

**Gary Schrobilgen**, McMaster University, Academy of Science

**Susan Sherwin**, Dalhousie University, Academy of the Arts and Humanities

**Pekka Sinervo**, University of Toronto, Academy of Science

**Robert Stebbins**, University of Calgary, Academy of Social Sciences

**Marc Tessier-Lavigne**, Xaira Therapeutics; Stanford University, Academy of Science

**Paul Thagard**, University of Waterloo, Academy of the Arts and Humanities

**Nancy Turner**, University of Victoria, Academy of Social Sciences

**Don VandenBerg**, University of Victoria, Academy of Science

**Rabab Ward**, The University of British Columbia, Academy of Science

**James Whitfield**, National Research Council, Academy of Science

**Maciej Zworski**, University of California, Academy of Science

## College Graduating Class

Members are elected to the College for a seven-year term, and 2024 will mark the graduation of the fourth cohort. We recognize and thank the Members Elected in 2017, who will complete their term in 2024 and who have been instrumental in the development and growth of the College.

**Jan Franklin Adamowski**, McGill University

**Tracie Afifi**, University of Manitoba

**Anila Asghar**, McGill University

**Graeme Auld**, Carleton University

**Jennifer Baltzer**, Wilfrid Laurier University

**Luis Barreiro**, Université de Montréal

**Julia Baum**, University of Victoria

**Catherine Beauchemin**, Toronto Metropolitan University

**Yale Deron Belanger**, University of Lethbridge

**Éric Bélanger**, McGill University

**George Andre Belliveau**, The University of British Columbia

**Elena M. Bennett**, McGill University

**Joule Bergerson**, University of Calgary

**Stephanie Laureen Borgland**, University of Calgary

**Sarah Burch**, University of Waterloo

**Marsha Campbell-Yeo**, Dalhousie University

**Keith Thor Carlson**, University of the Fraser Valley

**Kai Ming Adam Chan**, The University of British Columbia

**Simon Collin**, Université du Québec à Montréal

**Kendra Coulter**, Brock University

**Naisargi Dave**, University of Toronto

**Sarah de Leeuw**, University of Northern British Columbia

**Peter Dietsch**, Université de Montréal

**Jitse H.F. Dijkstra**, University of Ottawa

**Martin Drapeau**, McGill University

**Anver M. Emon**, University of Toronto

**Justin Ezekowitz**, University of Alberta

**Shohini Ghose**, Wilfrid Laurier University

**Darren Grant**, University of Alberta

**Anatoliy Gruzd**, Toronto Metropolitan University

**Frank Gu**, University of Waterloo

**Matthew Nicholas Hill**, University of Calgary

**Nicholas Locke Holt**, University of Alberta

**Laura Huey**, Western University

**Srividya Iyer**, McGill University

**S. Karly Kehoe**, Saint Mary's University

**Ute Kothe**, University of Lethbridge

**Christina Laffin**, The University of British Columbia

**Fannie Lafontaine**, Université Laval

**Étienne Laliberté**, Université de Montréal

**Vincent Larivière**, Université de Montréal

**Louis Patrick Leroux**, Concordia University

**Charlotte Loppie**, University of Victoria

**Andrew Stewart MacDougall**, University of Guelph

**Joanna Lynn McGrenere**, The University of British Columbia

**Marcia D. McKenzie**, University of Saskatchewan

**Katherine McKittrick**, Queen's University

**Paul McNicholas**, McMaster University

**Frédéric Mérand**, Université de Montréal

**Kelly Metcalfe**, University of Toronto

**Christopher John Mushquash**, Lakehead University

**Val Napoleon**, University of Victoria

**Richard Frimpong Oppong**, Thompson Rivers University

**Nigel Edward Raine**, University of Guelph

**Carla Rice**, University of Guelph

**Sylvain Sénécal**, HEC Montréal

**Nathalie Sinclair**, Simon Fraser University

**Sheila Singh**, McMaster University

**Sharon Sliwinski**, Western University

**Christian Steidl**, The University of British Columbia

**Sharon Elizabeth Straus**, University of Toronto

**Cheryl Suzack**, University of Toronto

**Victoria Talwar**, McGill University

**Zhen (Jane) Wang**, The University of British Columbia

**Jennifer Suzanne Willet**, University of Windsor

**Deanne Williams**, York University

**Stephen Wyatt**, Université de Moncton

**Karen Yeates**, Queen's University

**George Yousef**, University of Toronto

**Wei Yu**, University of Toronto

**Sandra Zilles**, University of Regina

## In Memoriam

Lives Lived: 2024 visit [rsc-src.ca/en/resources](https://www.rsc-src.ca/en/resources)

### **Karen Bakker (1971–2023)**

Elected 2014, The University of British Columbia, College of New Scholars

### **John Bandler (1941–2023)**

Elected 1986, University of Manitoba, McMaster University, Academy of Science

### **Louis Bernatchez (1960–2023)**

Elected 2011, Université Laval, Academy of Science

### **Albert Bregman (1936–2023)**

Elected 1995, McGill University, Academy of Social Science

### **John Burbidge (1936–2023)**

Elected 1998, Trent University, Academy of the Arts and Humanities

### **Hubert Gabrielse (1926–2024)**

Elected 1975, Natural Resources Canada, Academy of Science

### **H. Patrick Glenn (1940–2014)**

Elected 1999, McGill University, Academy of Social Sciences

### **Gershon Hundert (1946–2023)**

Elected 2011, McGill University, Academy of the Arts and Humanities

### **Roy Hyndman (1940–2023)**

Elected 1989, University of Victoria, Academy of Science

### **Keith Ingold (1929–2023)**

Elected 1969, National Research Council, Academy of Science

### **Michael James (1940–2023)**

Elected 1985, University of Alberta, Academy of Science

### **Kenneth J. Kasha (1933–2022)**

Elected 1990, University of Guelph, Academy of Science

### **George MacDonald (1938–2020)**

Elected 1999, Simon Fraser University, Academy of Social Sciences

### **Ian Manners (1961–2023)**

Elected 2001, University of Victoria, Academy of Science

### **Yoshio Masui (1931–2024)**

Elected 2003, University of Toronto, Academy of Science

### **James McConica (1930–2023)**

Elected 1987, University of Toronto, Academy of the Arts and Humanities

### **Edith McGeer (1923–2023)**

Elected 2002, The University of British Columbia, Academy of Science

### **Jeremy McNeil (1944–2024)**

Elected 1999, Western University, Academy of Science

### **Benoît Pelletier (1960–2024)**

Elected 2015, University of Ottawa, Academy of Social Sciences

### **Hubert Reeves (1932–2023)**

Elected 1991, Centre d'études nucléaires de Saclay, Academy of Science

### **Harvey Richer (1944–2023)**

Elected 2014, The University of British Columbia, Academy of Science

### **Peter Russell (1932–2024)**

Elected 1988, University of Toronto, Academy of Social Sciences

### **Nathaniel Rutter (1932–2023)**

Elected 1992, University of Alberta, Academy of Science

### **John Saul (1938–2023)**

Elected 2004, York University, Academy of Social Science

### **Ian Stirling (1941–2024)**

Elected 2007, University of Alberta, Academy of Science

### **Endel Tulving (1927–2023)**

Elected 1979, University of Toronto, Academy of Social Science

### **Elizabeth Waterston (1922–2024)**

Elected 2011, University of Guelph, Academy of the Arts and Humanities

### **Edward Woods (1936–2024)**

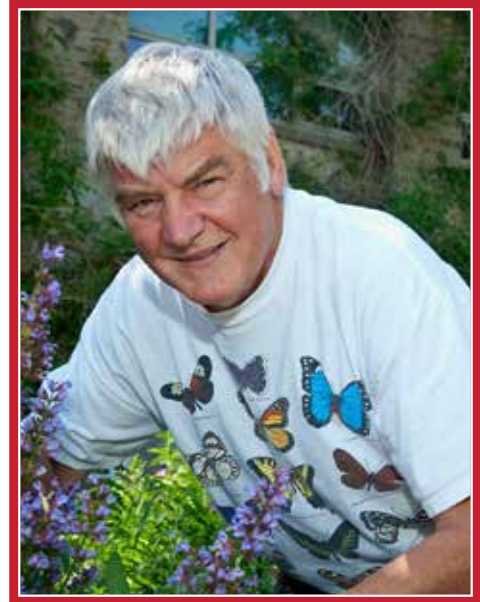
Elected 1987, Queen's University, Academy of Science

## Jeremy McNeil (1944 - 2024)

Elected to the Academy of Science in 1999, Jeremy was deeply engaged with the RSC for over 20 years. His first role was as a member of the RSC Expert Panel on *The Future of Food Biotechnology*. Jeremy then served for two terms as RSC International Secretary, fortifying our relationships around the world and with a particular focus on emerging Academies in the Global South. Jeremy was then elected as RSC President from 2019-2022.

When the pandemic arrived to Canada early in his presidency, Jeremy led the establishment of the RSC Task Force on COVID-19, the most ambitious and successful mobilization effort in the history of the RSC. Nearly 800 Canadians were involved in the project, and Jeremy was “hands-on” in terms of supporting authors, researchers and collaborators in the provision of over 100 op-eds in the *Globe and Mail* and nearly 40 peer-reviewed research briefs on all aspects of the pandemic.

Jeremy’s legacy of leadership in community, campus and country has left an indelible mark on the careers of hundreds of RSC Fellows and College Members who looked to him for guidance and support, as well as on thousands of young people who benefited from Jeremy’s enduring engagement with Let’s Talk Science. Jeremy truly worked across disciplines and across generations. We miss him dearly.





## The RSC Team



### Team Mission Statement

The RSC team honours its Members by recognizing their extraordinary contributions, providing a platform to share their expertise, and promoting an inclusive exchange of knowledge—across Canada, across disciplines, and across generations—to create a better Canada and a better world.

### The Royal Society of Canada


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 RSCSRC1

 The Royal Society of Canada

#### Executive Director

Darren Gilmour  
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#### Chief Financial & Administrative Officer

Linda Clauson  
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#### Communications Manager

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#### Programmes Officer

Amelia Domaradzki  
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#### Membership & Awards Officer

Nicolas Lafrenière  
[nlafreniere@rsc-src.ca](mailto:nlafreniere@rsc-src.ca)  
Christopher Dragan (2020-2024)

#### Programmes Manager

Russel MacDonald  
[rmacdonald@rsc-src.ca](mailto:rmacdonald@rsc-src.ca)

#### Events Manager

Sarah Seward  
[sseward@rsc-src.ca](mailto:sseward@rsc-src.ca)

#### General Inquiries

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