President

Dear Friends,

It is an absolute honour and pleasure that we present to you the 10th annual Canadian Science Policy Conference.

Looking back, the past nine conferences have all been remarkable and have contributed greatly to the science and innovation community. While the first CSPC had 13 panels and tens of speakers, CSPC 2018 features 50 panel sessions with about 250 speakers. This is a testament to the success of CSPC and how it has been received by the science and innovation community. To this, I must add another significant milestone. This year, for the first time, female panelists are the majority, comprising 57% of our speakers. This is the result of our persistence and hard work on equity as a main principle of the conference.

Within the science and innovation policy landscape, the CSPC has made great strides in bridging the gap between sectors, regions, and generations, as well as with civil society. The motto of this year’s conference reflects that contribution. This year’s conference is happening at a very different time from the first one. Science Policy is not only on the radar, but is at the forefront of consideration for the main players within the field of scientific innovation. Science Policy has improved connections to the rest of society including the media and the political milieu. There is renewed vigour and focus in the development of new programs which promote the urgency and importance of evidence-based decision making.

Canada’s Chief Science Advisor is now one year in place and has made great strides in our understanding of the science and policy relationship. This includes the proliferation of science advisors across various departments.

I am so proud to see how far the Canadian Science Policy Conference has come in the last decade and I am greatly appreciative to all organizations who supported this endeavour as well as so many wonderful minds who have contributed to the betterment of science policy here in Canada.

CSPC 2018 serves as a celebration of the advancements this country has made in science and innovation policy and aims to continue to inspire new young, inventive minds to shape the future of science policy in Canada.

I thank you for attending this exceptional conference and I hope to engage with you all and wish you the very best here at CSPC 2018.

Sincerely,

Mehrdad Hariri
CEO & PRESIDENT
Canadian Science Policy Centre

Prime Minister

Dear Friends:

I am pleased to extend my warmest greetings to everyone attending the 2018 Canadian Science Policy Conference.

The Canadian Science Policy Centre has created a national network of science policy stakeholders, and has paved the way for the next generation of scientists and policymakers. This annual conference brings together industry professionals, academics, government officials and other leaders in the field from across Canada to share their knowledge and discuss the latest trends and issues. I am certain that delegates will be inspired by the presentations planned for this event, and will benefit from this opportunity to network with their peers.

I would like to thank the organizers for putting together an informative and stimulating program for everyone in attendance. I hope that participants will also take advantage of this opportunity to explore everything that Ottawa has to offer.

Please accept my best wishes for a productive conference.

The Rt. Hon. Justin P.J. Trudeau, P.C., M.P.
Prime Minister of Canada

Chères amies, chers amis,


Je tiens à remercier les organisateurs d’avoir mis sur pied un programme informatif et stimulant pour tous les participants. J’espère que ces derniers profiteront également de cette occasion pour découvrir tous les attraits d’Ottawa.

Je vous souhaite une conférence des plus productives.

Cordialement,

Le très hon. Justin P.J. Trudeau, C.P., député
Premier Ministre du Canada
General Information

Your badge is your passport to all Conference events, and it is not transferable. Please wear your badge at all times.

Location
All Conference activities take place at the Delta Hotel, with the exception of the gala dinner. All floors are accessible by elevator and escalator. The CSPC Gala Dinner, taking place on Thursday, November 8th, will be held at the Canadian Museum of History (100 Laurier Street, Gatineau, Quebec). Shuttles will be available from 6:30am to 8:15pm at the Delta Hotel. Shuttles back to the Delta Ottawa will be available 9:30pm, with the last shuttle leaving at 10:45pm. The Museum can also be accessed by taxi or Uber.

Registration and Information Desk
The Registration and Information Desk is located in the main lobby beside the elevators (Victoria Salon). Note hours of operation:

Wednesday, November 7 ........................................ 07:00am – 5:00pm
Thursday, November 8 .......................................... 07:00am – 5:00pm
Friday, November 9 .............................................. 07:00am – 1:30pm

Dress
Business Casual attire is recommended for all sessions and functions with the exception of the CSPC Gala Dinner where Business Professional attire is suggested. Please remember that meeting room temperatures may vary; it is advised to bring a jacket, scarf/shawl or sweater with you in case it is cool.

Exhibition
The Exhibit Booths are located in International Ballroom C. Exhibits will be open for visits during all scheduled breaks and lunches during the conference.

Social Media
Twitter: Follow us at @sciencepolicy and join the conversation during the conference using #CSPC2018.
Facebook: Find us at facebook.com/canadiansciencepolicy
LinkedIn: Find us at https://www.linkedin.com/company/canadian-science-policy-centre/

Ryerson researchers are working to shape new policies and technologies that will improve water quality and conserve a sustainable global water supply.

Through pioneering research and partnerships, they are advancing local, national and international water policy. From investigating Arctic ecosystems to urban water security and evaluating public health impacts, they are solving crucial, real-world problems and creating a groundswell for healthy water, healthy communities and a resilient, sustainable future.
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Fonds de recherche du Québec
Favoriser les liens entre la science et les politiques publiques
Fostering links between science and public policy

Nos panels
Our panels
Façonner les politiques scientifiques pour favoriser l’équité, la diversité et l’inclusion - Mercredi 7 novembre, 15 h 30
Shaping science policy to improve equity, diversity and inclusion
Wednesday, November 7, 3:30 pm

Organismes subventionnaires et sciences participatives au Canada – Jeudi 8 novembre, 8 h 30
Granting agencies and participatory science in Canada
Thursday, November 8, 8:30 am

Gouvernance de la recherche : quelles formes peut prendre l’implication de la relève ? – Jeudi 8 novembre, 16 h
Governance of research: how can next generation scientists get involved?
Thursday, November 8, 4:00 pm
Panel Organizers

Panel Organizers by Company/ Organization Name

- Baycrest Health Sciences / Centre for Aging and Brain Health Innovation
- Bird Studies Canada
- British Columbia Ministry of Health
- Canadian Academy of Health Sciences
- Canadian Association of Postdoctoral Scholars (CAPS)
- Canadian Food Inspection Agency
- Canadian Science Policy Centre
- Carleton Social Cities
- Carleton School of Journalism and Communication
- Centre of Expertise in Geomatics at Canada Centre for Mapping and Earth Observation, Natural Resources Canada
- Colleges and Institutes Canada
- Compute Ontario
- Conference Board of Canada
- Council of Canadian Academies
- David Johnston Research + Technology Park, University of Waterloo
- Federation for the Humanities and Social Sciences
- Fonds de recherche du Québec
- Friends of Canadian Institutes of Health Research
- Genome Canada
- Hoffmann-La Roche Ltd.
- Impact Centre, University of Toronto
- Institute for Science, Society and Policy, University of Ottawa
- Let’s Talk Science
- LiTScientist
- Mitacs
- National Alliance of Provincial Health Research Organizations (NAPRHO)
- Natural Resources Canada’s Office of the Chief Scientist
- NIVA
- The Ontario College of Art and Design University
- Ontario Centres of Excellence
- Ontario Science Centre
- Pacific Water Research Centre, Simon Fraser University
- Pixels and Plans
- Polar Knowledge Canada
- Public Services and Procurement Canada, Government of Canada
- Pixels and Plans & Art the Science
- Queen’s University
- RCIScience
- Research Impact
- Royal Society of Canada College of New Scholars, Artists and Scientists
- Ryerson University
- Ryerson Urban Water, Ryerson University
- Science to Action Consulting
- SHAD
- Social Sciences and Humanities Research Council (SSHRRC)
- Space Advisory Board
- Stem Cell Network
- STEM Fellowship
- The Centre for Drug Research and Development
- University of Guelph
- University of Ontario
- University of Waterloo
- WWF-Canada

Community Friends

- BioNB
- Canadian Association of Postdoctoral Scholars (CAPS)
- Canadian Nutrition Society (CNS)
- Canadian Political Science Association (CSPA)
- Canadian Research Data Centre Network (CRDCN)
- Canadian Society of Evidence Based Policing (CAN-SEBP)
- Canadian Society for the History and Philosophy of Science (CSHPS)
- Carleton University School of Public Policy and Administration
- Concordia University, School of Graduate Studies
- Cybîra
- Genome British Columbia
- Institute on Governance
- International Council for Canadian Studies (ICCS)
- Karafarin Canada
- Michael Smith Foundation for Health Research (MSFHR)
- Ontario Centres of Excellence (OCE)
- RESEARCH Money
- Ryerson University Career Centre Student Affairs
- Science Borealis
- Science & Policy Exchange (SPE)
- Science & Technology Awareness Network (STAN)
- SHAD
- Statistical Society of Canada (SSC)
- Techexploration
- World Wildlife Fund Canada (WWF-Canada)
- Earnsclefe

Exhibitors

- AGE-WELL Network of Centres of Excellence
- Canadian Space Agency
- Centre for Aging and Brain Health Innovation
- Council of Canadian Academies
- Genome Canada
- Mitacs
- National Research Council of Canada
- Natural Sciences and Engineering Research Council (NSERC)
- NIVA Inc.
- Queen’s University
- Ryerson University
- Social Sciences and Humanities Research Council (SSHRC)
- Stem Cell Network
- The Leader’s Circle
- University of Toronto

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Au Conseil national de recherches du Canada, nous offrons des possibilités à quiconque cherche à repousser les limites de la science et de la recherche. Depuis plus de 100 ans, nous collaborons avec les dirigeants de l’industrie et des organismes de recherche en vue de façonner l’avenir du Canada.

Faites partie de notre équipe!
www.nrc-cnrc.gc.ca/fra/carrieres
Floor Map

MAIN LOBBY

CONVENTION LEVEL
Programs at a Glance

CSPC Themes
- THEME 1: Science and Policy
- THEME 2: Science and Society
- THEME 3: Science, Innovation and Economic Development
- THEME 4: Science and International Affairs
- THEME 5: Science and The Next Generation

Wednesday, November 7

07:00am – 17:00pm  Registration and Information Desk (Hotel Lobby)
8:15am – 8:30am  Opening Remarks (International Ballroom)
8:30am – 10:00am  Plenary Session
- 122 – How can better Federal-Provincial collaboration strengthen Canada’s research ecosystem? (International Ballroom)
10:00am  Coffee Break (Exhibit Hall)
10:30am – 12:00pm  Panel Sessions
- 110 – Should regulators define their risk tolerances?: A debate (Richelieu)
- 206 – Improvisation for science communication (Joliet-Frontenac)
- 212 – The social implications of emerging technologies: Are the most important questions the least studied? (International Ballroom)
- 315 – Towards a Canadian life sciences supercluster (Capitale)
- 216 – Incorporating Indigenous ways of knowing into applied research (Chaudière)
12:00pm – 1:30pm  Luncheon Session — Hosted by Age-Well
AGE-WELL 2020: Charting the Future of Technology and Aging Research in Canada (International Ballroom Foyer)

1:30pm – 3:00pm  Panel Sessions
- 401 – International science and Canada – Addressing global agenda 2030 together (International Ballroom)
- 120 – New ways of informing policy by leveraging scientific knowledge: Two models related to public academic collaborations (Joliet-Frontenac)
- 211 – Communication culture: scientists’ view and trainers methods to better engage with publics and policymakers (Richelieu)
- 208 – The dementia challenge: Facing the rising tide (45 min) (Chaudière)
- 308 – Longevity innovation for sustainable aging (45 min) (Chaudière)
- 501 – A data native generation’s approach to science: Science instruction Vs. Inquiry into science (Capitale)

3:00pm  Coffee Break (Exhibit Hall)
3:30pm – 5:00pm  Panel Sessions
- 116 – Shaping science policy to improve equity, diversity, and inclusion (Richelieu)
- 307 – Innovating science communication (45 min) (Joliet-Frontenac)
- 115 – A two-way street: Science informing policy, and policy informing science (45 min) (Joliet-Frontenac)
- 314 – Harnessing diversity and inclusion to drive innovation in Canadian science and technology (45 min) (Capitale)
- 204 – The logic of inclusive innovation: from inputs to outcomes (45 min) (Capitale)
- 214 – The status of science literacy in Canada (International Ballroom)
- 316 – Bringing innovative medicines into the hands of patients with Alzheimer’s disease (Chaudière)

5:00pm – 6:00pm  CSPC 2018 Welcoming evening reception (Pinnacle and Panorama Salon—Top Floor)
6:00pm – 7:30pm  Keynote Session
New directions for science advice in federal government (International Ballroom)
9:30pm – 12:00am  Special CSPC 2018 Pub Night Party (Delta Hotel)
### Thursday, November 8

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:45am – 8:30am</td>
<td>Breakfast Session&lt;br&gt;Hosted by MITACS – Science Policy Fellows Special Panel (International Ballroom)</td>
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<tr>
<td>8:30am – 10:00am</td>
<td>Plenary&lt;br&gt;209 – Granting agencies and participatory science in Canada (International Ballroom)</td>
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<tr>
<td>10:00am</td>
<td>Coffee Break (Exhibit Hall)</td>
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<tr>
<td>10:30am – 12:00pm</td>
<td>Panel Sessions&lt;br&gt;117 – Water at the science-policy interface: Challenges and opportunities for Canada (Capitale)&lt;br&gt;108 – Risk communication and engagement with the public in the nuclear, climate and artificial intelligence sectors (Joliet-Frontenac)&lt;br&gt;213 – Fake news, Fake therapies: Upping the ante in the fight against unproven stem cell therapies in Canada (Richelieu)&lt;br&gt;305 – Failure to thrive: Why Canada struggles to grow world leading tech companies (International Ballroom)&lt;br&gt;503 – Canada 2067 (45 min) (Chaudière)&lt;br&gt;505 – Supporting the next generation of northern scientists (45 min) (Chaudière)</td>
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<tr>
<td>12:00pm – 1:30pm</td>
<td>Lunch (International Ballroom Foyer)</td>
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<tr>
<td>12:30pm – 1:30pm</td>
<td>A Conversation with Dr. Mona Nemer, Canada’s Chief Science Advisor&lt;br&gt;Canada’s Chief Science Advisor (International Ballroom)</td>
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<tr>
<td>1:30pm – 3:00pm</td>
<td>Panel Sessions&lt;br&gt;217 – Bridging science and Indigenous knowledge systems: Best practices (Richelieu)&lt;br&gt;301 – Commercializing innovation in Canada: Retaining human and financial capital north of the border (International Ballroom)&lt;br&gt;205 – Mitigating disruption: Integrating social, ethical and policy research into the development of disruptive technologies (Joliet-Frontenac)&lt;br&gt;502 – Science and Inclusivity: Going beyond the slogans (45 min) (Capitale)</td>
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### 3:00pm

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<th>Time</th>
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<tr>
<td>3:30pm – 5:00pm</td>
<td>Panel Sessions&lt;br&gt;506 – The many ways in which the next generation can be involved in the governance of research (Capitale)&lt;br&gt;223 – Science fact or science fiction? How can science be heard in an age of misinformation? (International Ballroom A+B)&lt;br&gt;309 – Policy considerations around the convergence of high performance computing and artificial intelligence (Richelieu)&lt;br&gt;504 – Fueling water innovation in Atlantic Canada (45 min) (Chaudière)&lt;br&gt;303 – What’s on the menu? Science-based policies to address new agri-food realities (45 min) (Chaudière)&lt;br&gt;103 – Connecting science with policy in Canada: How do I do it? (45 min) (Joliet-Frontenac)&lt;br&gt;101 – Federal-Provincial coordination in research and innovation funding (45 min) (Joliet-Frontenac)</td>
</tr>
<tr>
<td>5:30pm – 6:30pm</td>
<td>CSPC Reception (Canadian Museum of History)</td>
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<tr>
<td>6:30pm – 10:30pm</td>
<td>CSPC Gala Dinner (Canadian Museum of History)&lt;br&gt;Keynote Speech by the Honourable Kirsty Duncan, Minister of Science and Sport&lt;br&gt;CSPC Science Policy Award of Excellence, Presented by the Honourable Kirsty Duncan, Minister of Science and Sport&lt;br&gt;Shuttles are available in front of the Delta Hotel (5:30pm to 6:15pm)</td>
</tr>
<tr>
<td>9:00pm – 10:30pm</td>
<td>Post-Gala Reception&lt;br&gt;Hosted by Bayer, and featuring mixologists from the Common Eatery (Canadian Museum of History)</td>
</tr>
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Friday, November 9

7:45am – 8:30am
Breakfast Session — Hosted by the Institute for Quantum Computing
Waterloo Innovation Agenda — The University of Waterloo
Innovation Ecosystem (International Ballroom)

8:30am – 10:00am
Short Talk Series (Richelieu)
The Short Talk Series will include seven 10-minute presentations:
1. Conspiring together for good: Institutional science and religion
2. From artificial intelligence to policy-making: Changing how we make maps to make better decisions
3. Amplify: Managing microaggressions and countering stereotypes against women and girls in STEM
4. Putting our minds together: Research and knowledge management strategy
5. From crisis to confidence: Building science and policy “bridges” in Canada’s national blood system
6. How a new model of journalism is connecting science and the public
7. Mapping the science writing and communication landscape in Canada using new media and traditional survey research tools

Panel Sessions
- 210 – Skills-building and impact in the social sciences and humanities (Chaudière)
- 218 – Digital futures: The impact of digital threats to democracy (45 min) (International Ballroom)
- 112 – How Canada can create a sustainable national space infrastructure (45 min) (International Ballroom)
- 508 – Where the rubber meets the road: The real life impact of policy on Canadian postdocs (Capitale)
- 222 – Who speaks for science? (Joliet-Frontenac)

10:30am – 12:00pm
Plenary Session
- 123 – Science and the next generation: Partnerships and collaborative infrastructure as enablers

12:00pm – 1:00pm
Lunch
For Symposium Registered Delegates Only (Laurentian)

1:00pm – 4:30pm
Post-Conference Symposia
Science Policy 101 (International Ballroom)
Equity, Diversity and Inclusion in Science: from Policy to Implementation (Joliet-Frontenac)
Brainstorming for Canada’s National Water Vision (Richelieu)
Policy and Funding Models for Graduate Students and Post-Doctoral Fellows (Capitale)
Supporting Canada’s Energy Transition – Bridging the Gap between Fundamental Research, Industry and Policy (Chaudière)

TOP TALENT STRENGTHENS OUR GLOBAL IMPACT.
We thank the Government of Canada for creating the Canada 150 Research Chairs program and helping us attract these world-renowned scholars to the University of Toronto.

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Prof. Donna Rose Addis
U of T Psychology
Rotman Research Institute

Prof. Alán Aspuru-Guzik
U of T Chemistry and Computer Science
Vector Institute for Artificial Intelligence

Prof. Miguel Ramalho-Santos
U of T Molecular Genetics
Lunenfeld-Tanenbaum Research Institute

BOUNDLESS
The Canadian Science Policy Centre has made significant contributions in elevating the status of science and innovation policy in Canada by becoming the focal point for connecting various disciplines, sectors, regions, and generations. The CSPC has become the main source of information sharing and has linked the science policy debate to the mainstream media, engaged youth, and brought new faces into the science policy discourse. The Centre has energized the Canadian science policy community.

With a nine-year track record of success, the Centre is now primed for much needed growth to fill the gaps in the quickly changing landscape of science policy and to respond to the community’s evolving needs. The Centre continues its operation in particular around the following areas:

- Strengthen Canadian democratic involvement in public policy in science,
- Bridge formal structures to look at science & innovation policy issues in new ways,
- Convene and promote dialogue among diverse stakeholders in science policy (public, private, academic, NGO, Parliamentary),
- Connect organizations and people, share insights and resources, harness grassroots engagement, bridge among sectors,
- Build human capital, engage youth, train the future leaders of science policy,
- Catalyze research to map and enhance the science policy landscape in Canada.

The annual conference has become Canada’s most comprehensive, multisectoral, and interdisciplinary forum for addressing emerging and urgent issues of science and innovation policy in the 21st century. It is used as a major platform for various reports and projects from the main science related organizations in the country, where they are presented to be discussed.

### Panels Breakdown (all data as of October 8, 2018):

#### Gender Breakdown

- Male: 43%
- Female: 57%

#### Positional Breakdown

- Executive: 43%
- Senior Management: 20%
- Scientists / Researchers: 22%
- Students / Post-Doctoral Fellows: 6%
- Others: 5%

### Registrants Breakdown

- Returning CSPC Registrants: 42.9%
- Registrants who never attended CSPC before: 57.1%

### Sector Breakdown

- Academia: 36%
- Government: 29%
- Non-Profit Organization: 26%
- Business: 7%
- Others: 2%

### Positional Breakdown

- Senior Management: 28%
- Executive: 27%
- Scientists / Researchers: 14%
- Students / Post-Doctoral Fellows: 16%
- Others: 15%
CSPC Themes over the years

Science and Policy
- What are Canada’s likely challenges in the next 50 years, and how can scientific knowledge be used to solve them? (2017, Ottawa)
- How does Canada get the new scientific knowledge it needs? (2017, Ottawa)
- How do we strengthen the environment for the production and integration of new scientific knowledge? (2017, Ottawa)
- How can we more effectively bring new and existing scientific knowledge to bear on Canada’s challenges? (2017, Ottawa)
- Science Funding Review: New Visions and New Directions (2016, Ottawa)
- Science and Technology-Society-Nexus (2013, Toronto)
- Science and Technology in the Global Village (2013, Toronto)
- Exploring the True North, Reflections on Northern Science Policy (2011, Ottawa)
- Special Focus: International Year of Chemistry (2011, Ottawa)
- A Glance at Bioscience in Canada (2011, Ottawa)
- Special Focus: International Year of Chemistry (2011, Ottawa)
- A Glance at Bioscience in Canada (2010, Montreal)
- Creating and Retaining Scientific Talent in Canada (2010, Montreal)
- Workshop: Science Policy 101 (2010, Ottawa)
- Workshop: Nuts and Bolts of Science Policy (2010, Ottawa)
- Workshop: Entrepreneurship and Career Development (2010, Montreal)
- Workshop: Nuts and Bolts of Science Policy (2015, Ottawa)
- Workshop: Nuts and Bolts of Science Policy (2013, Toronto)

Science and the Next Generation
- Graduate Studies and Research Training: Prospects in a Changing Environment (2013, Toronto)
- Creating and Retaining Scientific Talent in Canada (2010, Montreal)
- Workshop: Nuts and Bolts of Science Policy (2016, Ottawa)
- Workshop: Entrepreneurship and Career Development (2010, Montreal)
- Workshop: Nuts and Bolts of Science Policy (2015, Ottawa)
- Workshop: Nuts and Bolts of Science Policy (2013, Toronto)
- A New Innovation Agenda for Canada (2016, Ottawa)
- The Impact of Transformative and Converging Technologies on Private Sector Innovation and Productivity (2015, Ottawa)
- Innovation and Partnerships: A Recipe for Success (2014, Halifax)
- Private Sector R&D and Innovation: New Realities and Models (2013, Toronto)

Science & International Affairs
- Canada’s Return to the International Stage: How Can Science Help Foreign Policy (2016, Ottawa)
- Science and Innovation for Development (2015, Ottawa)
- Emerging Trends in International Trade and Diplomacy: The Role of Science and Technology (2013, Toronto)
- Global Perspectives in Science and Technology (2010, Montreal)
- Science and Technology in the Global Village (2009, Toronto)
- Workshop/Symposium: Science Diplomacy (2016, Ottawa)
- Workshop/Symposium: Diaspora Scientists (2015, Ottawa)
- Workshop/Symposium: Science Diplomacy (2013, Toronto)
**Agenda**

**Wednesday, November 7**

**7:00am - 5:00pm HOTEL LOBBY**

**Registration and Information Desk**

**8:15am – 10:00am INTERNATIONAL BALLROOM**

**Opening Remarks**

8:15am—Janet Halliwell, CSPC Chair, Board of Directors

**122 – How can better federal-provincial collaboration strengthen Canada’s Research ecosystem?**

**THEME 1**

Organized by: Friends of Canadian Institutes of Health Research

The 2017 report of the Fundamental Science Review primarily addressed the funding, organization, and oversight of federal support for extramural research. However, a number of observations were made about the interplay of federal and provincial/territorial support for research, innovation, and talent development:

- Very limited Federal Provincial Territorial (FPT) interaction and shared strategizing among senior officials on the science and innovation files
- Obvious imbalance of financial support for research across Ottawa, the provinces, and institutions
- Specific friction points: e.g. sharing of F&A (indirect) costs, federal programs requiring for PT match funding without collaborative adjudication
- Weak alignment on shared challenges such as research infrastructure/infrastructure
- Absence of a shared vision and national action plan for developing research-intensive talent

The panel will discuss FPT collaboration in research, and consider how improvements could be affected not only by governments, but also by institutions, non-government funders, advocacy groups, and industry partners.

**Speakers**

- Krista Connell, Chief Executive Officer, Nova Scotia Health Research Foundation
- Janet Rossant, President and Scientific Director, Gairdner Foundation
- Marc LePage, President and Chief Executive Officer, Genome Canada
- Mona Nemer, Chief Science Advisor, Government of Canada
- Michael J. Strong, President, Canadian Institutes of Health Research

**Keynote Speaker**

- David Naylor, 2018 Friesen Prize winner, Professor of Medicine and President Emeritus, University of Toronto

**10:00am – 10:30am EXHIBIT HALL**

**Coffee Break**

Coffee, tea, water and juice will be available for CSPC participants, in addition to a variety of snacks.

**10:30am – 12:00pm JOLIET-FRONTENAC**

**206 – Improvisation for science communication**

**THEME 2**

Panel Organizer: Alan Shapiro | LitScientist

Adapting the message to the audience is the single most important skill in communicating science effectively. Typically, scientists and researchers are trained to prepare presentations for colleagues; using the same approach for wider audiences including policymakers, funders, and the public can significantly limit the effectiveness of knowledge mobilization and community engagement efforts. Improvisation offers a wealth of tools and strategies for enhancing presentations and promoting audience engagement. Unlike traditional public speaking approaches, improvisation also supports researchers in responding to unexpected factors, such as challenging questions and unpredictable audiences. In this workshop, participants will work through interactive exercises to develop their communication skills. The workshop centres on individual and group work, and is designed to bring value to participants from both science and policy organizations. The workshop is geared to push participants outside their comfort zones and share concrete strategies that participants can apply for themselves and share within their institutions.

**Speakers**

- Jeff Dunn, Professor, Department of Radiology, University of Calgary; Graduate Program Director, Cumming School of Medicine
- Monica Granados, Postdoctoral Fellow, FQRNT and Wildlife Conservation Society Canada
- Maria Cortés Puch, Head, National and Regional Networks’ Program for the UN Sustainable Development Solutions Network

**Moderators**

- Mitchell Beer, President of Smarter Shift; Publisher of The Energy Mix
- Nikki Berreth, Co-founder, Science Slam; Owner, STEAM Communication
- Alan Shapiro, Co-founder and Director of Science Slam Canada; Science Communication Specialist with LitScience

**22 NOVEMBER 7–9, 2018 • OTTAWA, ONTARIO**

**23 10TH CANADIAN SCIENCE POLICY CONFERENCE**
In light of these difficulties, risk tolerances are often left vague or undefined. But should they be? Should regulators declare their tolerable levels of risk? Or are the concerns with defining risk tolerance simply too great to make defining risk tolerance worthwhile? Speaking directly to this question, the proposed debate centers on this question, the proposed debate centers on this question. The following motion: “Be it resolved that risk tolerance worthwhile? Speaking directly to risk tolerance simply too great to make defining levels of risk? Or are the concerns with defining levels of risk that cannot be tolerated from those that can be. Yet, regulators with mandates to protect public health and safety have often struggled to concretely define levels of risk they would be willing to tolerate, as several reports from the Auditor General of Canada have highlighted. Establishing a specific risk tolerance sets a benchmark against which an organization’s own performance can be judged, increasing transparency and helping to make risk management more targeted and deliberate. At the same time, declaring a risk tolerance level may create legal liabilities or implicate trade obligations. Moreover, many public health risks are inherently dynamic and complex, and keeping risks to tolerable levels may become difficult as the internal and external risk environments evolve. Finally, admitting a level of risk is tolerable may clash with a public expectation that no risks to human health are tolerable. In light of these difficulties, risk tolerances are often left vague or undefined. But should they be? Should regulators declare their tolerable levels of risk? Or are the concerns with defining risk tolerance simply too great to make defining risk tolerance worthwhile? Speaking directly to this question, the proposed debate centers on the following motion: "Be it resolved that regulators can and must set concrete, measurable risk tolerances." Moderated by Alyssa Daku, Chief Data and Risk Executive at the Canadian Food Inspection Agency, the panel will bring together a diverse array of panelists from Canadian federal agencies, departments, academia and risk management consultin—who will vigorously argue for both sides of the issue.

THEME 1
Panel Organizer: Alyssa Daku | Canadian Food Inspection Agency

110 – Should regulators define their risk tolerances?: A debate

Moderators
- Alyssa Daku
  Chief Data and Risk Executive, Canadian Food Inspection Agency

Speakers
- Greg Paoli
  Principal Risk Scientist and Chief Operating Officer, Risk Sciences International
- Pierre Bilodeau
  Executive Director, Plant Health Science Directorate, Canadian Food Inspection Agency
- Robert Wiersma
  Manager, Public Safety Risk Management, Technical and Standards and Safety Authority, Ontario
- Lianne Sauer
  Director General, Strategic Planning, Canadian Nuclear Safety Commission

THEME 3
Panel Organizer: Barry Gee | The Centre for Drug Research and Development

315 – Towards a Canadian life sciences supercluster

Moderator
- Gordon McCauley
  President and Chief Executive Officer, The Centre for Drug Research and Development

Speakers
- Raphael (Rafi) Hofstein
  President and Chief Executive Officer, MaRS Innovation
- Stéphanie Michaud
  President and Chief Executive Officer, BioCanRx
- Karimah Es Sabar
  Chief Executive Officer and Partner, Quark Venture Inc.
- Cate McCready
  Vice President, External Affairs, BIOTECanada

Canadians produce 5% of the world’s research publications, with a citation rate that ranks amongst the top 6 nations worldwide. However, Canada doesn’t full take advantage of this competitive advantage by translating it into a leading life sciences industry. The winners of the Canadian federal government’s 2018 ‘Supercluster’ funding initiative represented a multitude of industries encompassing digital technologies, oceans, mining, artificial intelligence, smart agri-food, and advanced manufacturing. Jarringly, no life sciences proposals were ultimately supported.

This session will debate the government’s decision, and discuss how we can tap into the life sciences sector’s potential to contribute immensely to Canada’s economy and transform into the next Canadian supercluster. Our panelists will share perspectives on two salient topics: (i) the means by which the public and private sectors can best come together to support the growth of Canada’s health-sciences ecosystem, and (ii) strategies for the federal government to establish comprehensive public policy and work with the private sector to support basic research, build a robust translational and commercialization pathway, and ultimately attract increased venture capital investment to Canada such that we can scale Canadian SMEs, and establish global Canadian anchors.
Could the world’s fresh water supply dry up?

3% of fresh water is available for use and 69% of it is used in agriculture.

68% of water use could be saved by switching to drip irrigation systems.


10:30am – 12:00pm CHAUDIERE

216 – Incorporating Indigenous ways of knowing into applied research

THEME 2

Panel Organizer: Anna Toneguzzo | Colleges and Institutes Canada

Indigenous ways of knowing—how First Nations, Métis and Inuit peoples relate to the world around them, through community practices, ritual and relations—have traditionally not been integrated into academic research. This valuable expertise is often overlooked. Recognising this gap, colleges and institutes across Canada are developing partnerships with First Nations, Métis and Inuit communities to advance applied research on some of the most scientifically pressing issues of our time, which results in social innovation in sectors as diverse as food security, climate change and governance. Applied research undertaken by colleges and institutes is demand-driven, based on local and regional community needs. This is important in urban areas, but particularly in rural, remote and northern areas where colleges are key providers of training, work-integrated learning opportunities and applied research. A key characteristic of applied research is to partner with communities to understand and define the problem that needs to be solved and to then design adequate, applicable and relevant solutions. Colleges and institutes, with their expertise in applied research, training and strong employer connections, are able to draw upon their resources, infrastructure and laboratories to support innovation by, for and with First Nations, Métis and Inuit communities. This panel will focus on their experience, lessons learned and the way forward on applied research with First Nations, Métis and Inuit communities, while also taking into account how these communities can develop and engage in their own research initiatives.

Moderators

Ursula Cobel
Associate Vice-President, Future Challenges, Social Sciences and Humanities Research Council

Manon Tremblay
Director, Indigenous Research, Social Sciences and Humanities Research Council

Speakers

Bronwyn Hancock
Associate Vice President Research Development, York College

Émilie Parent
PhD Candidate, Université de Montréal

Pitseolak Pfeifer
MA Student, Northern Studies, Carleton University

Krista Robson
Chair of the Research Ethics Board and Professor, Red Deer College

Gabriel Snowboy
President, Nihtaauchin Chisasibi Center of Sustainability

Ursula Gobel
Associate Vice-President, Future Challenges, Social Sciences and Humanities Research Council

Manon Tremblay
Director, Indigenous Research, Social Sciences and Humanities Research Council

Émilie Parent
PhD Candidate, Université de Montréal

Pitseolak Pfeifer
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Krista Robson
Chair of the Research Ethics Board and Professor, Red Deer College

Gabriel Snowboy
President, Nihtaauchin Chisasibi Center of Sustainability
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THEME 2
Panel Organizer: Peter Severinson | Federation for the Humanities and Social Sciences

Rapid development of transformative new technologies—such as social media, artificial intelligence, and new health technologies—is creating important opportunities and challenges for governments, businesses, the research community and society at large. Too often, however, the social implications of such developments are overlooked.

Emerging technologies bring with them important new challenges. In recent years we have learned that our reliance on social media has created new challenges. In recent years we have learned that our reliance on social media has created new challenges. In recent years we have learned that our reliance on social media has created new challenges. In recent years we have learned that our reliance on social media has created new challenges.

We need to better understand how society is affected by emerging technologies in part to address the risks but also to help us unlock the potential benefits. To train workers able to make the best use of new capabilities, to make smart decisions about how to employ new technologies to address society’s most pressing problems, and to ensure the benefits of new technologies are effectively shared throughout our diverse society.

In this session we will explore whether the Canadian policy and research community is doing enough to address society’s most pressing problems, and to ensure the benefits of new technologies are effectively shared throughout our diverse society.

THEME 1
Panel Organizer: Chantal Barton | Social Sciences and Humanities Research Council of Canada

A dynamic multi-sectoral panel organized by the Social Sciences and Humanities Research Council (SSHRC) that illustrates innovative approaches to inform evidence-based decision-making in policy development. Two successfully implemented models of collaboration between researchers and graduate students and other federal departments/Agencies will be showcased. These models are set in the context of SSHRC’s Imagining Canada’s Future initiative, which positions the social sciences and humanities as essential to addressing complex societal challenges facing Canadians, to the greater benefit of Canada and the world.

The first model features the International Policy Ideas Challenge (IPIC)—a special initiative developed in partnership between SSHRC and Global Affairs Canada (GAC), which taps into the talent base in post-secondary institutions across Canada, with graduate students and emerging scholars poised to inform policy development on key priority areas identified by GAC. In 2017, IPIC included key themes such as promoting democracy in a digital age; implications of climate change for Canadian trade and investment; and identifying best ways for Canada to support fragile and conflict-affected states. Speakers will include Ioanna Sahas Martin, Director, International Assistance Research and Knowledge, GAC and Maïka Sondarjee, a SSHRC doctoral candidate, University of Toronto, and 2017 IPIC winner for her policy brief on the topic of, “Inclusive Gender-Based Analysis (GBA+ in public participation processes”.

The second model will be illustrated by the work of Dr. Bipasha Baruah, Canada Research Chair in Global Women’s Issues, Western University’s Future initiative, NRCan commissioned Dr. Baruah to produce a dedicated report on “Women in Natural Resources Sectors”, which examines current participation rates of women in natural resources industries and formulates recommendations for governments and industry to increase recruitment, retention and advancement of women in the sector.

Both models foster effective collaboration between the academic and public sectors, and will provide a good foundation on which to engage the audience in a discussion about these and other new ways of informing policy through scientific knowledge.
Canadian scientists want to engage with non-scientists to ensure that policymakers use scientific evidence to form public policy. This rationale for engagement was given top priority in a recent survey of NSERC Discovery guarantees when asked about their communication objectives. The survey was carried out in 2017-18.

Ensuring continued research funding came in second, and in third place, but still with a strong showing was the desire to ensure Canadian culture values science.

Mindful of these priorities, this panel will look at ways and means of how these goals might be realized in practice. How important is communications training? Just over half the survey respondents had some media training. Is it working?

At one time, academics believed that transferring fundamental aspects of Canadian culture were adequate and advisable. No longer.

Scientists are taught to use techniques like storytelling, active listening, empathy in the expanding number of workshops and sessions offered by research-informed science communicators in training organizations across North America and Europe.

The panelists all have relevant academic and practical approaches to help scientists communicate more effectively when talking to media, policymakers or interested audiences. The questions about what works best relies on articulating how we measure successful outcomes with the methods used to achieve desired goals. In other words, injecting some science into science communication.

The moderator will expand on the expertise of the panel by eliciting audience experiences. The session will explore the communication issues and best practices for those who want to ensure that scientific evidence is a vital part of the body politic and an appreciation of science is a fundamental aspect of Canadian culture.
208 – The dementia challenge: Facing the rising tide

THEME 2
Panel Organizer: Eleanor Fast | Canadian Academy of Health Sciences

Canada’s aging population and the increasing prevalence of Alzheimer’s disease and other dementias pose a significant challenge for Canadian families and their caregivers, and more broadly, for the health care system.

Recognizing the importance of developing and implementing an effective strategy to address this challenge, the Minister of Health of Canada, through the Public Health Agency of Canada, asked the Canadian Academy of Health Sciences (CAHS) to provide an evidence-informed and authoritative assessment on the state of knowledge to help advance federal priorities under the National Strategy for Alzheimer’s Disease and Other Dementias Act.

To address the charge, the CAHS assembled a multidisciplinary, multi-sectoral panel with a range of expertise, experience, and demonstrated leadership in this domain. The panel’s report will assess the evidence-based and emerging practices, actions, and programs in jurisdictions within Canada and internationally that improve dementia and its care and the lives of people living with dementia and their caregivers.

This session at CSPC will provide attendees with an overview of the panel’s approach to providing meaningful input in a complex multi-jurisdictional policy environment.

2:15pm – 3:00pm CHAUDIERE

308 – Longevity innovation for sustainable aging

THEME 3
Panel Organizer: Allison Sekuler | Baycrest Health Sciences/Centre for Aging and Brain Health Innovation

Canada, and many other countries, are aging faster than at any time in history. There are now more Canadians over 65 than under 15, and by 2030, nearly 1 in 4 Canadians will be 65 or older. This demographic shift will impact every aspect of our lives: from the workforce to recreation, from transportation to healthcare. The so-called silver tsunami brings with it a looming public health crisis: growing numbers of individuals with dementia and complex chronic medical issues, but a shortage of long-term care beds and other care options.

It is estimated that 50 million people worldwide already live with dementia, with that number reaching 75 million by 2030. And, although the cost of dementia is immeasurable for those who suffer from the disease and their loved ones and caregivers, economists estimate the worldwide cost at US$1 trillion, rising to US$2 trillion by 2030.

But is that future inevitable, or is there a path to sustainable aging? A path to a society in which people can age in peace and thrive throughout their lifetimes; a society in which aging is a process rather than an endpoint; a society in which our demographic changes lead to enhanced cultural, social, and economic prosperity for Canada. The convergence of precision medicine, technology, big data, and artificial intelligence could chart that path. Fully 70% of our economy is driven by baby-boomers, making age-related innovation a critical and growing field. Virtual and augmented reality, assistive bots, social robots, driverless cars, connected homes, smart cities, and personalized and predictive medicine promise to transform a silver tsunami into a silver economy. However, given the size and diversity of Canada, that promise face many challenges, including concerns about data sharing and privacy, inter-regional jurisdiction of health information, cultural differences in healthcare practices; adoption, procurement, and funding of novel technologies; stigmas associated with aging; and the critical need to create a culture of longevity-innovation.

This panel brings together a diverse group of experts in aging, science and technology, innovation, healthcare practice, and policy to explore the challenges, promises, and opportunities for innovation, and to chart a path for sustainable aging in Canada.
3:00pm – 3:15pm INTERNATIONAL BALLROOM A+B

THEME 4
Panel organizer: Gordon McBean

The Global Agenda 2030 covers a wide range of international scientific policy and societal issues pertinent to global economic development. This complex and intersectional Agenda encompasses the 2030 Agenda for Sustainable Development, the Paris Agreement on Climate Change, and the Sendai Framework for Disaster Risk Reduction. Across these coalitions and programs, there is a great need for scientific work to be effectively coordinated internationally as well as within each country. Presently, international scientific research and development are coordinated through global programs such as the World Climate Research Programme, Global Framework for Climate Services, Future Earth, World Data System, and global observational programs. In parallel, within Canada, our world-class research communities are effectively coordinated through the Networks of Centres of Excellence, CIFAR, government laboratories, and other Canadian research organizations.

This session will present and discuss international and national scientific programs, with a focus on how the scientific community can work together effectively to address critical policy issues and coordinate interdisciplinary research within Canada and internationally. One of the highlights of our session is elucidating Canada’s role in the new International Science Council—a merger of the International Council for Science and the International Social Sciences Council—whose vision is to advance all sciences as a global public good.

3:30pm – 4:15pm JOLIET-FRONTENAC

THEME 3
Panel Organizer: Julia Krolik | Pixels and Plans

Innovating Science Communication consists of a diverse group of panelists that practice different forms of science communication in Canada. The group will discuss five different science communication approaches and the milestones achieved. The panel moderator, Julia Krolik, of Pixels and Plans, an agency practicing and teaching the art of good data, will present from-the-field case studies of how fusing data science and creative direction to tackle science communication problems helps organizations reach and engage their intended audiences. Dr. Chantal Barriault, Director of the Science Communication Program at Laurentian University will discuss how the curriculum has evolved and what a Science Communication degree means for educating and inspiring future generations of communicators and policymakers. Jonathan Provost, an Environmental Scientist at Indigenous and Northern Affairs Canada, will cover science communication initiatives in the public sector and the complications of speaking to the general public. Catherine Lau, Program Evaluation Officer at Art the Science, will discuss how the curriculum has evolved and what a Science Communication degree means for educating and inspiring future generations of communicators and policymakers. Samantha Yammine, a PhD Candidate in Neuroscience and Stem Cell Biology at the University of Toronto will discuss her successful use of social media platforms to communicate science and engage diverse audiences as well as incorporate social media metrics on Canadian science policy discussions.

Panel attendees will be presented with an overview of novel and traditional approaches to Science Communication. These methods provide insights to overcoming challenges of communicating science to diverse audiences. Since science communication plays an important role in science policy decision making, the diverse topics covered in this panel are a valuable resource to a Canadian Science Policy audience.

Finally, Samantha Yammine, a PhD Candidate in Neuroscience and Stem Cell Biology at the University of Toronto will discuss her successful use of social media platforms to communicate science and engage diverse audiences as well as incorporate social media metrics on Canadian science policy discussions. Panel attendees will be presented with an overview of novel and traditional approaches to Science Communication. These methods provide insights to overcoming challenges of communicating science to diverse audiences. Since science communication plays an important role in science policy decision making, the diverse topics covered in this panel are a valuable resource to a Canadian Science Policy audience.
THREE 1

Panel Organizer: The National Alliance of Provincial Health Research Organizations

It has been said that the greatest purpose of scientific inquiry is in its potential, and therefore unpredictable, contribution to the benefit of all people. Various approaches have been at play to enable cross-sectoral decisions, collaborations, investments, and networking that aim to harness that potential and increase the likelihood of moving the value of research towards innovations with broad organizational and societal scope and benefit. To make these approaches effective, on the one hand, decision makers need to understand the ins and outs of the autonomous research process and how best to enable it over the entire timeline from discovery to impact. On the other hand, decision makers can also put challenges to the research community to stimulate research, collaborations, and innovation activities in areas where there are known knowledge gaps.

Policy and science have and have to continue to interact on various levels. Our panel will present pan Canadian perspectives on how this process occurs to establish cross-sectoral culture, to identify and respond to regional and local needs, and to facilitate effective dialogue.

4:15pm – 5:00pm JOLIET-FRONTENAC

115 — A two-way street: science informing policy, and policy informing science

Moderator
Deborah Gordon-El Bihbety
Chief Executive Officer, Research Canada

Speakers
Denis Amyot
President and Chief Executive Officer, Colleges and Institutes Canada

Krista Connell
Chief Executive Officer, Nova Scotia Health Research Foundation

Necole Sommersell
Manager, Evaluation & Impact, Research Manitoba

THEME 1
Panel Organizer: The National Alliance of Provincial Health Research Organizations

Progress has been slow in increasing diversity in the scientific community. A recent report from the Canadian Association of University Teachers shows that while the representation of women among university professors has improved over the past decade, they are still highly underrepresented in science, technology, engineering and mathematics (STEM), and their proportion still decreases in all sectors as we move up the academic ranks. Indigenous peoples and some racialized groups are also underrepresented. This panel will present case studies that illustrate how we can improve policies to help increase equity, diversity and inclusion in science. It will bring together perspectives from a university, provincial and federal funding agencies, an international non-profit organization, as well as from the younger generation.

At the institutional level, Ryerson University has shown great leadership by intentionally prioritizing equity and inclusion values, as the first university in Canada to create a vice-president post in charge of equity and community inclusion with the mandate of identifying and addressing systemic barriers. At the provincial level, the Fonds de recherche du Québec and the ministry of Economy, Science and Innovation are currently working on UNESCO’s SAGA (STEM and Gender Advancement) project, which will help identify gaps and improve Québec’s science policies to improve gender equality in STEM. At the federal level, the three granting agencies, including the Tri-Agency Institutional Programs Secretariat are currently putting in place equity, diversity and inclusion (EDI) action plans to embed EDI in every aspect of the research they support. At the international level, the American Association for the Advancement of Science is currently conducting a pilot project called SEA (STEM Equality Advancement) Change, which encourages and recognizes institutions’ efforts toward equity, diversity and inclusion, through an award system based on the United Kingdom’s Athena SWAN model.

A student perspective will be included on this panel, as students can play an important role in shaping science policy, through initiatives such as #Students4theReport, a social media campaign that encouraged the Canadian government to follow recommendations from the Fundamental Science Review committee, including the development of policies aimed at improving equity and diversity in science.

3:30pm – 5:00pm RICHELIEU

116 — Shaping science policy to improve equity, diversity and inclusion

Moderator
Maryse Lassonde
President, Conseil supérieur de l’Éducation, Government of Quebec

Speakers
Mary-Rose Bradley-Gill
Vice-President External Relations, Science & Policy Exchange

Shirley Malcom
Director, Education and Human Resources Programs, American Association for the Advancement of Science

Denise O’Neil Green
Vice-President, Equity and Community Inclusion, Ryerson University

Serge Villemure
Director, Scholarships, Fellowships and Chairs for Women and Science in Engineering, Natural Sciences and Engineering Research Council

Panel Organizer: Fanny Eugène | Fonds de recherche du Québec
3:30pm – 4:15pm CAPITALE

THEME 3
Panel Organizer: Wendy Cukier | Ryerson University

In recent years, Canadian employers, economists and industry analysts have lamented a shortage of qualified personnel to drive science and technology innovation, entrepreneurship, and economic growth (CME/CSTEC, 2017; ICTC, 2017). Leading organizations in Canada’s professional, scientific and technical services (PST) sector still struggle to create equitable and inclusive environments for members of diverse groups (Coe & Hariri, 2017). Despite extensive policy and organizational changes, limited progress has been made in addressing barriers to diverse groups in Canada’s PST sector (Coe & Hariri, 2017). Many racialized minorities face unconscious bias and limited career opportunities within small- and medium-sized enterprises (SMEs) (Access Alliance, 2011). The “chilly climate” and pay differentials persist for women in STEM (Cariño et al., 2017; Cukier, 2007; ICTC, 2017). Indigenous youth, one of Canada’s fastest growing segments (Statistics Canada, 2011), comprise merely 1.2% of ICT workers (ICTC, 2017). Immigrant and female technology entrepreneurs continue to confront gender-related industry barriers (Orser, 2009; Orser et al., 2012; Orser & Riding, 2016; Cukier, 2017). Even though entrepreneurship is a desirable pathway to economic integration for members of diverse groups, particularly immigrants, recent reviews of Ontario’s incubator and innovation ecosystem suggest that the governance, processes, and resources do not support those from diverse groups (Canada-US Council for Advancement of Women, 2018). In this complex ecosystem, there is an acute need to leverage diversity to drive change. This panel will concurrently examine the ways in which diversity produces the innovations that galvanize economic growth and the role of leading-edge tools, applications and approaches in fostering innovation for inclusivity in Canada’s science and technical sector. Informed by an awareness of the skills gap and applying an ecological approach to diversity, this panel of leading technology and entrepreneurship scholars and industry experts will generate a practical alignment and reciprocal engagement between inclusion and innovation. They will identify and assess the potential of technology-enabled applications and tools that promote inclusion and examine how diversity can generate access to top talent and creative imaginations, expanding reach, and improving firm performance through inclusion and engagement. The panel will consider ways to replicate and share innovative tools and build capacity for evidence-based approaches to diversity policy. Finally, it will unpack how policies, practices and tools can advance inclusion by matching diverse job seekers to employers. Overall, this panel will emphasize how employers and policymakers can harness innovation and inclusion to create productive science and technology industries.

3:30pm – 4:15pm CAPITALE

THEME 3
Panel Organizer: Wendy Cukier | Ryerson University

Moderator: Wendy Cukier
Professor of Entrepreneurship and Strategy and Founder of the Diversity Institute in the Ted Rogers School of Management, Ryerson University

Speakers:
Charlie Carter
Policy Leader,
Public Policy Forum

Mohamed Elmi
PhD Candidate, University of Cape Town

Jaigris Hodson
Assistant Professor of Interdisciplinary Studies, Royal Roads University

Doaa Mansour
Lead, Advancing Women in STEM, Youth Employment Services Montreal

4:15pm – 5:00pm CAPITALE

THEME 2
Panel Organizer: Robert Luke | OCAD University

What is inclusive innovation? How do we achieve it?

These are important questions to ask as we continue to pivot into a knowledge-based global economy. Inclusive innovation is a worthy outcome to strive for. But in order to achieve it, we need to ensure that the inputs are inclusive. We can usefully plot this into a logic model, which provides a way for understanding the relationships between the various inputs, activities and outputs that will help us achieve the outcome(s) commensurate with the focus on inclusive innovation.

When we look at innovation through this lens and work back from the goal of inclusive innovation, we can see that there are gaps in the material conditions that would support the outcome of inclusive innovation. Innovation inputs useful include the pipeline of science and technology and research and development (S&T and R&D), funding, people, culture, activities: those conditions and material supports that are put into play against any innovation effort. Inclusive innovation means focusing not just on simple-to-count measures such as patents and publications, but on the full spectrum of innovation outputs:

- We need to ask: whose perspective has been left out of innovation?
- What activities and disciplines are needed to facilitate innovation?
- What outputs result from these inputs?

When we look at innovation through this lens and work back from the goal of inclusive innovation we can see that there are gaps in the material conditions that would support the outcome of inclusive innovation. The authors in this series offer helpful advice, expertise and perspectives on inclusive innovation.

Moderator: Robert Luke
Vice-President, Research & Innovation and Associate Professor in the Faculty of Liberal Arts & Science and School of Interdisciplinary Studies, OCAD University

Speakers:
Dominique Bérubé
Social Sciences and Humanities Research Council

Ken Doyle
Executive Director, Tech-Access Canada

Malavika Kumaran
Research Manager, MaRS Data Catalyst

Dori Tunstall
Dean of Design, OCAD University

- Malavika Kumaran, Research Manager, MaRS Data Catalyst, on women in tech
- Ken Doyle, Executive Director of TechAccess Canada on later-stage applied R&D and experimental development in support of diversity of activity
- Dominique Bérubé, Vice-President, Research Programs, SSHRC will address the role of humanities and social sciences in addressing grand challenges and multidisciplinary research

Inclusive innovation is a worthy outcome to strive for. In order to achieve it, we need to ensure that the inputs, activities and outputs are inclusive. When we do so, we leverage the full spectrum of capacity from across society, and help to build more resilient social, cultural and economic outcomes.
3:30pm – 5:00pm CHAUDIERE

316 — Bringing innovative medicines into the hands of patients with Alzheimer’s disease

THEME 3
Panel Organizer: Angela Bilkhu | Hoffmann-La Roche Ltd.

In 2016, an estimated 747,000 Canadians were living with Alzheimer’s Disease (AD) and related dementias. It is estimated that by 2030, 1.4 million Canadians will have AD or related dementias, an increase of 66 percent. By 2050, that number will increase to 2.8 million. As in other major markets, this rapidly increasing prevalence of people with AD and dementia is a significant concern to policymakers who are exploring how they can best support patients with AD and related dementia and their loved ones.

Recognizing the significant need and their commitment to improving the lives of Canadians with dementia, the Government of Canada announced in May 2018 that it was moving forward with a National Dementia Strategy. The Strategy will consider the experience of those living with dementia and will build on existing work being undertaken across Canada in this area. The Strategy poses a unique opportunity to define what is required from a healthcare system readiness perspective.

The objective of the panel will be to explore the current work being undertaken by the Government of Canada to improve the regulatory and healthcare environment in order to bring innovative therapies into the hands of patients.

The panel discussion is meant to ignite public policy discourse related to:

• Understand the current regulatory and market access decision making process and the gaps that exist in bringing innovative diagnostics and therapies to market in the area of Alzheimer’s Disease
• Existing healthcare system gaps and existing opportunities to bridge those gaps

Moderator
Soeren Mattke
Senior Scientist at USC; Director of the Center for Improving Chronic Illness Care

Speakers
Christin Bexelius
Andrew R. Frank
Cognitive and Behavioural Neurologist; Medical Director, Bruyère Memory Program
K. Jennifer Ingram
Founder, Medical Director and Qualified Investigator, Kawartha Centre—Redefining Healthy Aging
Pauline Tardif
Chief Executive Officer, Alzheimer Society of Canada

3:30pm – 5:00pm INTERNATIONAL BALLROOM A+B

214 — The status of science literacy in Canada

THEME 2
Panel Organizer: Maurice Bitran | Ontario Science Centre

The level of science literacy and the attitudes of the population towards science and technology are important to the future of technology-based societies like ours. Not only because our economy is dependent on technology, but also because many social issues are affected by science and technology, effectively making science literacy a requirement for meaningful participation in the public policy dialogue.

What do Canadians think about science and technology? Do they trust scientists and scientific results? What do they think about science and technology related issues such as climate change or artificial intelligence?

For the third consecutive year, the Ontario Science Centre has conducted an online survey on science literacy and attitudes towards science across Canada. A review of its main results will serve as the background for this discussion in which each panel members will also discuss what their organizations are doing to increase public literacy and public trust in science.

Moderator
Maurice Bitran
Chief Executive Officer and Chief Science Officer, Ontario Science Centre

Speakers
Eugenia Duodu
Chief Executive Officer, Visions of Science
Mona Nemer
Chief Science Advisor, Government of Canada
Molly Shoichet
University Professor and Senior Advisor to the President on Science and Engineering Engagement, University of Toronto

5:00PM – 6:00PM PINNACLE/PANORAMA ROOM

CSPC 2018 CSPC Opening Reception
New directions for science advice in federal government

Artificial intelligence...Blockchain...CRISPR-cas9...these are just the ABCs of a broad array of emerging technologies confronting federal decision-makers, who must weigh how to foster these technologies in the interests of Canada’s economic competitiveness but also regulate them in the public interest. Similarly, new ideas such as inclusive innovation, open science, digital governance, collaborative research infrastructures, and the inclusion of traditional Indigenous knowledge present both opportunities and challenges to government departments. Meanwhile the broader context is characterized by rising populism, changing citizen expectations, and a post-truth decline of deference to experts.

In this context, timely science advice remains a critical input to agile public policy. As part of the Government of Canada’s new vision for science, federal departments and agencies are identifying Departmental Science Advisors (DSAs) to support effective decision-making informed by the scientific evidence. Join us for a dialogue with three DSAs on the new directions for science advice in the federal government.

Special CSPC 2018 Pub Night Party

FROM 2001-2018, THE STEM CELL NETWORK HAS:

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Speakers

Toby Fyfe
President of Institute on Governance

Sarah Gallagher
Canadian Space Agency
Science Advisor

Donna Kirkwood
Chief Scientist, Natural Resources Canada

Dan Wayner
Chief Science Advisor, National Research Council

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- Catalyzed 18 clinical trials and 17 biotech start-ups

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Thursday, November 8

7:00am - 5:00pm
HOTEL LOBBY
Registration and information desk

7:45am – 8:30am
INTERNATIONAL BALLROOM A+B
Breakfast session—Skills and competencies where science and policy meet
MITACS Science Policy Fellows Special Panel
Policy-making is a complex process involving multiple considerations and competing priorities. Ensuring that science and evidence underpin policy-making can be a challenge both for those seeking to influence policy, and for those making policy decisions. What are the skills and competencies needed to navigate this process? What steps can be taken to enhance the capacity of an organization to integrate science in policy-making processes? Join Mitacs, and a panel of experts to explore Canada’s approach to building science policy capacity.

Speakers
- Alejandro Adem
  Chief Executive Officer and Scientific Director, Mitacs Inc.
- Gail Bowkett
  Director, Innovation Policy, Mitacs Inc.
- David Castle
  Vice-President Research and a Professor in the School of Public Administration with an adjunct appointment in the Gustavson School of Business
- Scott Findlay
  Professor at the Department of Biology at the University of Ottawa; Director of Graduate Studies at the Institute of Environment
- Katie Gibbs
  A scientist, organizer and advocate for science and evidence-based policies

Moderator
- Véronique Morin
  Science Journalist

8:30am – 10:00am
INTERNATIONAL BALLROOM A+B

209 — Granting agencies and participatory science in Canada

THEME 2
Panel Organizer: Fanny Magini | Fonds de recherche du Québec

Canadian granting agencies are increasingly interested in strengthening the link between science and society. This link can take various forms, including that of participatory science, in which non-expert citizens are involved in the research process. The Chief Scientist of Québec would like to organize a panel to discuss the role of granting agencies in the funding of participatory science in Canada and the role of citizens in the research process. The Chief Scientist of Québec would like to organize a panel to discuss the role of granting agencies in the funding of participatory science in Canada and the role of citizens in the research process. Panelists will answer questions such as: Do granting agencies already support this type of research? Are there specific research programs to promote and recognize participatory science? Beyond research programming, should citizens have a place on evaluation committees, boards of directors of granting agencies, or other official bodies?

10:00am – 10:30am
EXHIBIT HALL
Coffee Break

Speakers
- Marc Fortin
  Vice-President, Research and Partnerships, Natural Sciences and Engineering Research Council of Canada
- Ted Hewitt
  President, Social Sciences and Humanities Research Council
- Serge Marchand
  Directeur scientifique, Le Fonds de recherche du Québec—Santé
- Louise Poissant
  Directrice scientifique, Le Fonds de recherche du Québec—Société et culture
- Michael J. Strong
  President, Canadian Institutes of Health Research

7:00am - 5:00pm
HOTEL LOBBY
Registration and information desk

7:45am – 8:30am
INTERNATIONAL BALLROOM A+B
Breakfast session—Skills and competencies where science and policy meet
MITACS Science Policy Fellows Special Panel
Policy-making is a complex process involving multiple considerations and competing priorities. Ensuring that science and evidence underpin policy-making can be a challenge both for those seeking to influence policy, and for those making policy decisions. What are the skills and competencies needed to navigate this process? What steps can be taken to enhance the capacity of an organization to integrate science in policy-making processes? Join Mitacs, and a panel of experts to explore Canada’s approach to building science policy capacity.

Speakers
- Alejandro Adem
  Chief Executive Officer and Scientific Director, Mitacs Inc.
- Gail Bowkett
  Director, Innovation Policy, Mitacs Inc.
- David Castle
  Vice-President Research and a Professor in the School of Public Administration with an adjunct appointment in the Gustavson School of Business
- Scott Findlay
  Professor at the Department of Biology at the University of Ottawa; Director of Graduate Studies at the Institute of Environment
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- Michael J. Strong
  President, Canadian Institutes of Health Research
The connection between policymakers, scientists and the public is an essential bond that allows scientific innovation to translate into tangible benefit in the life of ordinary Canadians. And yet, we are increasingly seeing different perceptions over the nature, extent and capacity to mitigate potential risk and this is translating into protracted controversies that may actually put the public at risk—think nuclear waste management, climate change or artificial intelligence.

As society continues to engage with increased scientific complexity with respect to artificial intelligence entering our lives in multiple sectors, threats from climate change, and nuclear waste storage, the public’s adoption and acceptance of innovation is dependent on risk communication that advances both understanding and differences in real and perceived risks. We also need to better understand what drives risk perception choices have been used. In this way we want to create both a dialogue and experience of risk communication for the audience participants.
Optimum management of water resources is one of the most crucial challenges for Canada in the 21st Century. Safe and adequate water supply is central to sustainable ecosystems, healthy communities and strong economic growth. However, a widening gap between current management practices and increasing scientific knowledge is testing the adequacy of the current regulatory framework in addressing threats to water, such as those posed by nonpoint source contamination. As climate change increases the uncertainty and complexity for the management of water resources, water managers and researchers will need to understand more about the science-policy interface to improve the response to water threats. These threats demand a new approach to regulation for water protection and water management activities, which require adaptive responses. There is considerable variation in our current knowledge of the changing demands on water resources and in the different stages of adaptive management strategies, which might be improved by implementing water monitoring policies and plans.

This panel examines the perceptions of researchers and water managers working at the science-policy interface across Canada and discusses the implications of their role for addressing nonpoint source contamination in the face of climate change. Our discussion themes include: vulnerability and uncertainty, time lag issues, the need for different skill sets throughout the process, and what can be done to enable scientists and policymakers to work together more effectively to address current and future water threats.
Polar Knowledge Canada’s mission is to advance Canada’s knowledge of the Arctic and other circumpolar regions including the Antarctic, and strengthen Canadian leadership in polar science and technology, while promoting the development and distribution of knowledge, across the north.
301 — Commercializing Innovation in Canada: Retaining human and financial capital north of the border

**THEME 3**

Panel Organizers: Claudia Krywiak | Ontario Centres of Excellence and Geraldine Chen | Ontario Centres of Excellence

Commercializing Innovation in Canada: Retaining human and financial capital north of the border

As host of the second-largest ICT cluster in North America outside Silicon Valley and home to world-class academic and research institutions focused on innovative technologies, Canada has a unique opportunity to be a global leader in innovation. Yet some industry and financial experts have argued there has been a recent trend of investment capital “exodus” to the U.S. that could result in a cascading loss of talent, intellectual property and the next generation of innovators.

Through a collaborative lens, this diverse panel of research and industry experts will discuss strategies to link supply with demand to move the best ideas from the lab to the marketplace, while bringing international visibility to these initiatives that drive economic growth, create high-quality jobs and enhance Canada's global competitiveness.

Topics to be discussed:

- Highlights of interconnected, game-changing technology projects already underway, driving the digital economy
- Moving innovative technologies out of the research lab and into the marketplace
- Attraction and retention of talent
- Connecting supply with demand
- Retention of IP by commercializing in Canada and bringing tech to global markets
THEME 2
Panel Organizer: Natural Resources Canada’s Office of the Chief Scientists

Today’s issues are multi-faceted and complex. Drawing on various sources of evidence can enhance our ability to identify sensible and practical solutions. Success stories that draw on both science and Indigenous Knowledge systems are often undocumented. Much remains to be done, and discussions of experiences and examples are important for sharing experiential knowledge of the panelists such as lessons learned and best practices.

Moderated by Natural Resources Canada’s Chief Scientist and for the benefit of the Government of Canada’s Science and Policy Integration community, this panel will provide an opportunity for practitioners in various disciplines to present their experiences including both challenges and enablers. Panelists will discuss the results of their work in bridging science and Indigenous knowledge systems for a common purpose such as sustainable environmental and natural resource management. Case studies presented by the panelists will provide participants with examples of successful integration and partnership practices established between governmental organizations and local/regional and Indigenous groups.

This “Case Study” panel would follow the Short Talk-type panel on the same subject, delving deeper by providing ‘grassroots’ perspectives.

THEME 5
Panel Organizer: Debbie Currie

Everybody’s talking about inclusion—and ensuring that Canadians from every sector have opportunities to excel in STEM or now STEAM. That’s a good thing. But if inclusion is going to be about more than photo-ops and catchphrases, we have to have real discussions about the challenges of genuine, deep inclusion. Meaningful gender, economic, regional, and philosophical diversity are easy to talk about but tough to achieve in any organization—even in entrepreneurial settings where diversity is widely known to be an engine for creativity.

SHAD—Canada’s premier enrichment and entrepreneurship program for high school aged youth established in 1980 and based in Waterloo, Ont.—presents four young, diverse SHAD Fellows whose stories show why it’s critical to get it right.
The concept of interdisciplinarity is used to frame education, scholarship, research, and interactions within and outside the academy. Moreover, given the complexity of problems facing the world today, interdisciplinarity thinking is often considered as “essential” for developing effective solutions. In principle, the premise of interdisciplinarity is a good one; yet, the extent to which this concept is embraced by the current generation of learners and thinkers, the benefits and risks for doing so, and the barriers and facilitators to achieving interdisciplinarity are rarely considered.

We contend that emerging scholars, artists and scientists including students, post docs, and early career professionals have much to contribute to discussions about the ways in which interdisciplinarity can be enabled to equip and empower the next generation with the skills and knowledge to work across and among traditional disciplines. Relatively, there is a need to identify successful examples/case studies of where interdisciplinarity has been achieved with meaningful results. In this panel session organized by the College of the Royal Society of Canada, we will seek to generate a “Manifesto for Enabling Interdisciplinarity”.

To generate the “manifesto” we will collate thoughts from the panel as well as the audience and twitter. To engage the audience we will distribute cards during the event and collect ideas. We will do the same on Twitter for the 24 hrs preceding the session in an attempt to engage the broader community.

**Moderator**

Steven Cooke  
Canada Research Chair and Professor,  
Institute of Environmental and Interdisciplinary Sciences at Carleton University

**Speakers**

Graeme Auld  
Director and Associate Professor,  
School of Public Policy & Administration, Carleton University

Shohini Ghose  
Professor, Physics and Computer Science; Director, Centre for Women in Science (WinS); Vice-President Elect,  
Canadian Association of Physicists

Andrea Reid  
PhD Candidate, University of British Columbia and Carleton University

The billions of dollars spent each year in Canada on scientific research and development by all levels of government, academia, science-based institutions, NGOs, and the private sector, generates a tremendous volume of crucial new knowledge and information about the world we live in including how things work, new and innovative ways for us to interact with it, and the impact humans are having on it.

While these efforts may have great value unto themselves, without the readiness and capacity to effectively communicate the importance of these activities and their results to the general public, policymakers, and other stakeholders, their relevance to Canadians will most certainly wane and fail to garner the attention they deserve or have any impact on related decisions.

Science communication is essentially the art and science of distilling complex information into its key elements and translating them into accessible plain language tools that deliver messages with impact. These messages need to be developed with a deep appreciation of the needs and motivations of a given audience. This generally entails messages and visual representations that help information recipients really focus on a message (e.g., data visualisation). This is critical when the goal is to engage and bring an emotional connection to an audience, tell a compelling story, and deliver important information to policymakers on which to base decisions.

**Moderator**

Anton Holland  
President and Chief Executive Officer,  
NIVA Inc.

**Speakers**

Aline Dimitri  
Executive Director, Food Safety Science Directorate and Deputy Chief Food Safety Officer, Canadian Food Inspection Agency

Jim Handman  
Executive Director, Science Media Centre of Canada

Catherine Paisley  
Vice President of Science Education and Experience, Ontario Science Centre

Purimma Sundar  
Director of Knowledge Mobilization, Ontario Centre of Excellence for Child and Youth Mental Health

There are many types of barriers that prevent this information reaching the right people and having an impact. What are those barriers, and how can they be overcome? This session will explore how knowledge can be mobilized and delivered to move people (including policymakers) to action, enable well-informed decisions, and bring it into active use. Successfully making the connections between research/expertise and policy/practice is critical to achieving desired outcomes and this includes building relationships, trust, and understanding between research producers and users. This approach includes “knowledge brokering” as a means to bridge these two worlds to ensure that the right information is available to the right people, at the right time, and in the right format.
Disruptive technologies are double-edged swords. Social scientists and ethicists have shown that innovation is a necessary catalyst for technological and social change. However, the pace and scale of innovation have outstripped the ability of policymakers and the public to evaluate and compare the benefits and risks. Policymakers and the public, faced with rapidly developing technologies, often succumb to reflexive and emotive policy responses.

Since its establishment, Genome Canada has promoted a globally-innovative program (“GE3LS”) to research the ethical, environmental, economic, legal and social issues involved in genomics research. Each large-scale genomics project funded at Genome Canada must integrate a GE3LS research component, promoting a deeper understanding of the broader impact of the research.

Dr. Eric Meslin, President of the Council of Canadian Academies and expert on bioethics and science policy, recently led an extensive review of the GE3LS program which identified key lessons for integrating social sciences research into technology development. Dr. Meslin will chair a session that will explore this topic through two case studies that illustrate how GE3LS works in practice. Each will be co-presented by the project’s scientific leader and a GE3LS social scientist.

The first describes the development of novel diagnostic technology for breast cancer, the challenges created in supporting informed decision-making by doctors and patients, and the importance of evaluating the cost-effectiveness of the new technology.

The second project focuses on forestry genomics and climate change and integrates research into understanding the ecological, socio-economic and institutional factors that affect the adoption of new technologies in forest management.

Whether its climate change skepticism, falling vaccination rates, or the public pressure to shape policy that contravenes research findings, scientific information in all arenas struggles against waves of misinformation and disinformation that confirm our biases and reinforce the stories we want to tell ourselves about the world and how it works. As journalist Elfa Yr Gylfadóttir noted in 2017, “It has even been said that, despite the easy access to knowledge, we as a human kind, are now living in the era of misinformation or disinformation.”

This isn’t a new phenomenon—indeed the communication challenges facing science have deep historical roots—however, the rapid acceleration of digital technologies has given rise to a plurality of powerful, non-traditional voices who hardly circumvent the gatekeeping and agenda setting functions of traditional institutions and outlets, planting the seeds of skepticism, mistrust and confusion. Meanwhile traditional information outlets continue to find themselves increasingly short on the time and resources necessary to fully investigate these stories, widening the gap between the general public and trusted, evidence-based information. This panel brings together experts from industry, academia, and media to discuss the historical challenges of communication and story-telling facing science and to explore how we can work together to create a stronger public discourse built on sound, evidence-based information to re-establish public trust and develop better policies. We’ll explore the historical challenges of scientific communications and how those are rapidly evolving in the digital era; how institutions, government, and industry and respond and leverage these emerging technologies to share information; and attempt to examine how we can work together to approach science communication at a broader policy level.
3:30pm – 5:00pm RICHELIEU

309 — Policy considerations on the convergence of high performance computing & artificial intelligence

THEME 3
Organized by: Compute Ontario

High Performance Computing (HPC) and Artificial Intelligence (AI) have emerged as fundamental tools for 21st Century research. The Federal government announced as part of its 2018 Budget, a commitment of $572.5 million over five years with $52 million per year ongoing to implement a national Digital Research Infrastructure Strategy, reinforcing this point.

Using points of evidence from Compute Ontario’s Highly Qualified Personnel and Technology Investment Studies, this panel will examine how the process of conducting collaborative evidence-based planning with others in the digital research space:

• Led to the creation of a converged high-performance computing & artificial intelligence platform which will facilitate new tools, skills development and opportunities for researchers and industry partners
• Identified a significant gap and need for a robust academic-industry collaboration strategy in high performance computing and some of the anticipated challenges
• Reinforced the need to change how we measure value and evaluate return on in digital research infrastructure investments to policymakers
• And considers ways in which regional organization can collaborate to improve coordination and investments in digital research infrastructure to accelerate national planning strategies

This panel will draw on the expertise, skill and experience of senior executives from Compute Ontario, Calcul Quebec and Vector Institute.

Moderator
Nizar Ladak
President & Chief Executive Officer, Compute Ontario

Speakers
Chris Loken
Chief Technology Officer, Compute Ontario

Suzanne Talon
Chief Executive Officer, Calcul Quebec

Alison Paprica
Vice President, Health Strategy and Partnerships, Vector Institute; Assistant Professor, Institute for Health Policy, Management and Evaluation (IHPME), University of Toronto

Alain Veilleux
Chief Technology Officer, Calcul Quebec

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Roche is a proud sponsor of the 2018 Canadian Science Policy Conference
3:30pm – 4:15pm JOLIET-FRONTENAC

101 — Connecting science with policy in Canada: How do I do it?

THEME 1

Panel Organizer: Silke Nebel
Bird Studies Canada

Scientific knowledge is not easily accessible to policymakers and scientists often do not have a clear understanding of the needs of policymakers. The importance of bridging this gap between science and policy was one of the key topics at the Canadian Science Policy Conference in November 2017. This panel will draw from the insights of experts on the science-policy interface and discuss the following questions:

1. Government policy maker: What avenues does she or he take to obtain scientific advice?
2. NGOs that work towards improving federal science policy (Future Earth and Ecofiscal Commission): how do they connect with policymakers and how do they access scientific information?
3. Scientists who have built successful relationships with policymakers: what was their path to success?
4. Research administrators: what are some options to incorporate time spent on the science-policy interface towards the departmental service component of academics?
5. Office of the Chief Science Advisor, Canada: how do they source scientific information, and what avenues are open to you to influence federal policy? Is there an opportunity for scientists to engage in the process?

This panel is of interest to all of those who are interested in practical guidance for bridging the gap between science and policy. Increasing the role of science in public debates will ultimately improve evidence-based decision-making at the provincial and federal level in Canada.

Moderator
Silke Nebel
Vice President of Science and Conservation, Bird Studies Canada

Speakers
Mark Daley
Associate Vice-President (Research), Western University; Associate Professor, Computer Science, Biology, and Statistics & Actuarial Science Departments, Western University; Chairman of the Board of Directors of Compute Ontario

Scott Findlay
Professor at the Department of Biology at the University of Ottawa; Director of Graduate Studies at the Institute of Environment

Amy Luers
Executive Director, Future Earth

Frederick John Wrona
Chief Scientist, Alberta Environment and Parks

Christopher Ragan
Director of McGill University’s Max Bell School of Public Policy; Associate Professor, Department of Economics at McGill University; Chair of Canada’s Ecofiscal Commission

4:15pm – 5:00pm JOLIET-FRONTENAC

101 — Federal-provincial coordination in research and innovation funding

THEME 1

Panel Organizers: Emina Veletanlic and Dr. Creso So | University of Toronto

Canada’s research enterprise crosses federal-provincial borders. Provincial and federal agencies together fund over 30% of R&D activities in higher education across the country (Statistics Canada, 2017). However, federal-provincial coordination in this area has been largely a “reactive” and “ad hoc activity without a clear organizational structure or mechanism to support it” (M. Tamtik in Science and Public Policy, 2016). This panel will clarify areas of stress as well as opportunities for improvement in policy coordination.

BACKGROUND:
The 2016 Fundamental Science Review recognized that research supports are “an area where close cooperation and shared planning would make sense, but that is not what the Panel found” (p. 67). A recent Council of Canadian Academies report highlighted this coordination gap as “both a risk and opportunity”, particularly for provincial governments (Science Policy: Considerations for Subnational Governments, 2017). Although the expert committee cautions against the risks associated with weak policy implementation, there are significant benefits to be derived from a closer connection between provincial and federal programs—if successfully translated into practice.

In light of the creation of the Canada Research Coordinating Committee (CRCC) to harmonize activities horizontally across the main federal agencies, mechanisms for vertical coordination with the provinces and territories must also be examined.

FORMAT:
Our proposed panel will spark new thinking about the coordination challenge and means to overcome the vertical coordination gap that has been endemic in Canada. Our Panel will harness the collective thinking of our expert panel and the CSPC participants to address questions such as:

- How can past examples of federal-provincial initiatives inform the present?
- What are potential models for intergovernmental coordination?
- How can the federal research councils work with their provincial/territorial counterparts to avoid policy duplication and inconsistencies in research support programs?
- What could be some short- and long-term coordination targets? What is success?

Moderator
Creso Sá
Professor of Higher Education and Director, CIHE-OISE, University of Toronto

Speakers
Emina Veletanlic
University of Toronto, PhD Student, CIHE-OISE, Manager, Strategic Initiatives, Impact Centre

Marc Fortin
Vice-President, Research and Partnerships, Natural Sciences and Engineering Research Council of Canada

David Moorman
Senior Advisor, Policy & Planning, Canada Foundation for Innovation

Merli Tamtik
Assistant Professor, Department of Educational Administration, Foundations and Psychology, Faculty of Education, University of Manitoba
the most important era in Canada's history for regional commitment we are poised to help drive local water stewards and with the groundswell of around freshwater health, building capacity behind river communities, closing knowledge gaps have been forging conservation partnerships Gordon Foundation and local community groups To address this challenge, RBC, WWF-Canada, 2017 Watershed Report was data deficiencies on Y et, water data deficiencies are widespread. One decisions that protect Canada's fresh water supply. Trusted water data underpins the goal of abundant, empowered to implement freshwater solutions are now asking for them. The window is wide open. For decades, Canada has failed to collect real-information on a regional or national scale about the health of our freshwater ecosystems. The good news is that Canada's commitment to freshwater stewardship, conservation, and science-based decision-making is now a national priority. There is a growing awareness that safeguarding our freshwater ecosystems is critical to the future of our economies, our communities and our quality of life. In other words, the people are creating a true tool for evidence-based decision-making. Here’s how: We are pairing the security of blockchain technology (decentralized ledger system) and the nimble nature of open data. We’re making comprehensive analysis accessible and available to everyone—watershed advocates, scientists, governments, and everyday citizens—and keeping it updated through Atlantic Datastream, an online data sharing platform. But we’re not counting on the data to speak for itself, we’re distilling and communicating our findings powerfully through WWF’s Watershed Reports. Together, we’ll measure our progress in the adoption of smarter, evidence-based water conservation policies across the country. But the real measure of success will be Canada’s ability to bend the curve on our freshwater health on a national scale.
Join us for the Gala

3:30 pm – 5:00pm CAPITALE

506 — The many ways in which the next generation can be involved in the governance of research

THEME 5
Panel Organizer: Madison Rilling, Fonds de recherche du Québec

Science's next generation of researchers, embodied by graduate students and postdoctoral fellows, generates a significant share of scientific output in Canada and contributes to its growth and democratization. More and more, these emerging scientists are getting involved and mobilizing themselves to influence the decision-making processes within the various spheres of the research ecosystem. Taking into account the perspectives of the next generation of scientists ensures that the decisions made reflect their needs and values, and fosters the involvement of student researchers in decision-making and institutional governance. In Canada, this involvement can take many forms, e.g., advisory committees, advocacy groups or representation positions in governance structures. The proposed panel aims to present the various forms of involvement or influence that students can have, namely by putting the spotlight on three concrete examples and their impact:

1) The intersectional student committee (Comité intersectoriel étudiant—CIÉ) of the Fonds de recherche du Québec (FRQ); 2) Science & Policy Exchange (SPE) and; 3) Science Outside the Lab North (SOIL). These examples will be complemented by the presence of an experienced researcher now working in a federal department. This generational junction aims to highlight the positive repercussions of the involvement of the next generation, for both organizations and students.

The CIÉ advises the Quebec’s Chief Scientist and is mandated to identify strategies to promote access to funding for graduate studies, foster excellence of student research, and contribute to the local and international promotion of research stemming from Quebec. Since 2014, the CIÉ has been actively contributing to integrating student researchers within the governance structure of the FRQ. Based in Montreal, SPE is a non-profit organization whose mission is to bridge the gap between academia, industry and government to inspire evidence-based policymaking. SPE led the #Students4theReport campaign to support the Naylor Report’s recommendations for federal reinvestment in fundamental research. The SOIL North organization aims to provide immersion training to students related to issues that affect science, politics and society. In addition to the representatives of these three organizations, the panel will be supplemented by Donna Kirkwood, Chief Scientist at Natural Resources Canada, having herself been involved in and a witness to the training of students during graduate studies. Her experience in both academia and government will provide discussions on the importance of the contribution of the next generation in the development of research in Canada.

Moderator
Paul Dufour
Fellow and Adjunct Professor, Institute for Science, Society and Policy in the University of Ottawa

Speakers
Blake Freier
PhD Student, University of Waterloo

Tina Gruosso
Postdoctoral Fellow, Goodman Cancer Research Center, McGill University

Donna Kirkwood
Chief Scientist, Natural Resources Canada

Madison Rilling
PhD Student, Université Laval

POST-GALA RECEPTION

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Join us for a post-gala reception in celebration of innovation in Canadian agriculture, graciously hosted by our Innovator Level Partner, Bayer Inc.

Enjoy live entertainment, and cocktails served by molecular mixologists from Ottawa’s Common Eatery.

Appetizers will be served.

TIME: CSPC Reception (5:30pm)
Gala Dinner (6:45pm)

LOCATION: Canadian Museum of History, 100 Laurier Street, Gatineau

Shuttles are available in front of the Delta Hotel (5:30pm to 6:15pm)

Opening Remarks:
Mehrdad Hariri,
CEO & President Canadian Science Policy Centre

Keynote Address:
Honourable Kirsty Duncan,
Minister of Science and Sport

Winner: Jessica Kolopenuk
Policy Paper title: An Indigenous approach to Canada’s national missing persons DNA program

Runner Up: Anna Levinsson
Policy Paper Title: Sex, drugs & cardiovascular disease: cardiovascular drug development needs women

Runner Up: Samuel Looper and Claire Velikonja
Policy Paper Title: Wildfire disaster monitoring and management through the Canadian Space Agency

4TH SCIENCE POLICY AWARDS OF EXCELLENCE, YOUTH CATEGORY
Sandra Lapointe  
Associate Professor, Philosophy, McMaster University

Matthew McKean  
Director, Education, Conference Board of Canada

David Phipps  
Leader of Knowledge Mobilization Unit, York University

Friday, November 9

7:00am – 1:30pm HOTEL LOBBY
Registration and Information Desk

7:45am – 8:30am INTERNATIONAL BALLROOM A+B
Breakfast Session hosted by the Institute for Quantum Computing
Waterloo’s Innovation Advantage — The University of Waterloo Innovation Ecosystem

8:30am – 10:00am CHAUDIERE
210 — Skills-building and impact in the social sciences and humanities

THEME 2
Panel Organizer: Research Impact Canada, the Conference Board | The Collaboration, Social Sciences and Humanities Research Council

Research Impact Canada, the Conference Board have partnered with The Collaborative, a SSHRC funded network dedicated to helping educators foster a better culture around SSH knowledge and skills to offer a new collaborative platform for educators in K12 through PSE. The premise of the project is that students, graduates, researchers, and educators in SSH disciplines benefit from applied skills training, cross-sectoral collaborations, and knowledge sharing. Likewise, collaboration and knowledge sharing skills help extend the reach, engagement, and impact of SSH research and activities. But the models of impact available do not do justice to the nature and diversity of activities in which engagement and knowledge mobilization objectives can be achieved. This panel will offer draw upon the expertise of the speakers and to identify best practices, resources, and next steps for improving our understanding of impact in the social sciences.
8:30am – 10:00am RICHELIEU

Short Talk Series
The Short Talks Series will include seven 10-minute presentations:

1. Conspiring together for good: Institutional science and religion
   Milton Friesen
   Program Director, Cardus Social Cities

2. From artificial intelligence to policy-making: changing how we make maps to make better decisions
   Karen Bronsard
   Policy Analyst, Centre of Expertise in Geomatics at Canada Centre for Mapping and Earth Observation, Natural Resources Canada

3. Amplify: Managing microaggressions and countering stereotypes against women and girls in STEM
   Ana Sofia Barrows
   Social Media Manager, Lina Duque Consulting

4. Putting our minds together: Research and knowledge management strategy
   Nicolette McGuire
   Director, Research, Partnerships and Innovation Division, British Columbia Ministry of Health

5. From crisis to confidence: Building science and policy “bridges” in Canada’s national blood system
   Dana Devine
   Chief Scientist, Canadian Blood Services

6. How a new model of journalism is connecting science and the public
   Lisa Varano
   Audience Development Editor, The Conversation Canada

7. Mapping the science writing and communication landscape in Canada using new media and traditional survey research tools
   Tim Lougheed
   Chief Scientist, Canadian Blood Services
   Alexandre Schiele
   Researcher, UQAM East Asia Observatory

8:30am – 10:00am CAPITALE

508 — Where the rubber meets the road: The real life impact of policy on Canadian postdocs

THEME 5
Panel Organizer: Joseph S. Sparling | Canadian Association of Postdoctoral Scholars

This panel aims to examine the real life impact of current postdoctoral policies in Canada and to discuss potential policy reforms that could provide solutions to many of the challenges facing Canadian postdoctoral scholars today. The panel will open with two presentations by current/former postdocs affiliated with CAPS/ACSP. The first of those presentations will review the major challenges facing Canadian postdocs based on survey data and front-line stories from postdocs across the country, including issues related to employment status, compensation and benefits, immigration, career development, and personal support. The second presentation will focus on identifying the policies that contribute to those challenges and discussing potential policy-based solutions for improving the status quo for postdocs in Canada. Following the presentations a representative from the Tri-Agency and a postdoctoral administrator from a large Canadian research university will be asked to weigh in on the proposed policy reforms, identify potential barriers to those proposed changes in the current Canadian research landscape, and discuss possible ways to overcome those barriers. The panel will close following questions from the audience and a brief summary statement from the moderator.

Moderator
Joseph S. Sparling
Chair, Canadian Association of Postdoctoral Scholars

Speakers
Dominique Bérubé
Vice-President, Research Programs, Social Sciences and Humanities Research Council

Jenna Haverfield
Postdoctoral Scholar, McGill University and Vice-Chair Membership, Canadian Association of Postdoctoral Scholars

Krishnamoorthy Hedge
Postdoctoral Scholar, Institut national de la recherche scientifique and At-Large Member, Canadian Association of Postdoctoral Scholars

Rachel Fernandez
Associate Dean, Faculty of Graduate and Postdoctoral Studies, University of British Columbia
8:30am – 9:15am INTERNATIONAL BALLROOM A+B

112 — How Canada can create a sustainable national space infrastructure

THEME 1
Panel Organizer: Michelle Mendes | Space Advisory Board
Canada is known for its high-quality talent in space science and technology and has made many contributions to international initiatives past and present, such as James Webb Telescope, MOST, RADARSAT, the Canada Arm and many more. In order to continue Canada’s national space legacy and to participate in future international space projects, a policy must be developed to tolerate a highly competitive, dynamic and changing global environment.

The Canadian Space sector is at a crossroads. Without immediate action, the consequences are dire. At minimum the status quo will lead to a reduction on ability to translate innovation and science into economic development, the exit of highly trained Canadians, loss of access to space activities with international partners, and limited information and data needed to sustain the activities of many Canadians sectors, such as agriculture, environmental management, health and others.

The moderator and the panellists will discuss Canadian space policy to provide a baseline for understanding the existing environment. The panel will then review and analyze recent national directives, made by other nations such as the United Kingdom, the USA, India and others. They will then demonstrate how relatively minor changes can make a significant impact on the future of Canadian space. Furthermore, a discussion about making space a national strategic asset is critical to a long-term plan for the national space sector.

Gordon Osinski
NSERC/MacDonald, Detwiller and Associates Ltd/Canadian Space Agency
Industrial Research Chair in Planetary Geology, Western University

Kate Howells
Global Community Outreach Manager and National Coordinator for Canada, The Planetary Society

Michael Pley
President, Pley Consulting Inc.

Moderator
David Kendall

Speakers
Kate Howells
Global Community Outreach Manager and National Coordinator for Canada, The Planetary Society

Gordon Osinski
NSERC/MacDonald, Detwiller and Associates Ltd/Canadian Space Agency
Industrial Research Chair in Planetary Geology, Western University

Michael Pley
President, Pley Consulting Inc.

Marie Lucy Stojak
Executive Director, Mosaic

Moderator
Reinhart Reithmeier
Professor, Biochemistry, University of Toronto

Speakers
Carrie Boyce
Program Manager, RCIScience

Marianne Mader
Executive Director, Canadian Association of Science Centres

Cara Marshall
Director of Communications, Canada’s Chief Science Advisor

Anthony Morgan
Broadcaster and Creative Director of Science Everywhere

Moderator
Anthony Morgan
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Marianne Mader
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Professor, Biochemistry, University of Toronto

Carrie Boyce
Program Manager, RCIScience

Cara Marshall
Director of Communications, Canada’s Chief Science Advisor

Anthony Morgan
Broadcaster and Creative Director of Science Everywhere

THREE 2
Panel Organizer: RCIScience
Great research ecosystems support public outreach.

INVESTING IN CANADA’S FUTURE Strengthening the Foundations of Canadian Research.

In this one sentence lies an entire field of research and practice that is key to moving science forward in Canada. But most science outreach programs in this country are, by their very design, only reaching youth or “science-aware” adults.

Many of us used to be merely concerned about the large group of public who turned away from science early in their lives and now lack any inclination to engage with it. Now, flat Earthers, anti-vaxxers and climate change deniers demonstrate that a public not just disengaged from, but actively skeptical of established science, can become a political force.

Even in the face of this, we have not changed how we engage with adults to try and reach beyond our traditional, science-aware base.

This panel explores ideas and best practices to engage adults from many backgrounds and interests with science, and what these require to be sustainable. The session moves from discussion to practice with a Freestyle Social, an innovative vehicle for public consultation and engagement with current science-related issues. The ultimate goal is to answer the question, who speaks for science in Canada?
THEME 1
Panel Organizer: Public Services and Procurement Canada | Anne-Marie Thompson

Recognizing the central role that science plays in many aspects of Canadian society, the federal government has developed a vision to foster a culture of evidence-based policy and decision-making. This new vision will lead to enhanced science outcomes for Canadians through greater collaboration and improved infrastructure that will benefit the wider Canadian science ecosystem.

Areas of focus include strengthened equity and diversity in science, support for the next generation of scholars, scientists being equipped with the tools and resources they need to succeed, and active engagement in the rapidly evolving global science landscape.

The panel discussion will focus on how scientific research can address today’s emerging challenges through new collaboration, supported by innovative and world class science infrastructure. Members will highlight successes with respect to collaboration across jurisdictions to address important scientific questions, how the pace of discovery and innovation is shaping their workplaces and influencing the tools they need, and how they are keeping pace with transformative changes in the global scientific landscape.

THEME 2
Panel Organizer: Eloisa Martinez | Social Sciences and Humanities Research Council

An interactive and forward-looking series of four lightning talks, organized by the Social Sciences and Humanities Research Council (SSHRC), will highlight several key opportunities and challenges presented by the pervasive role of Artificial Intelligence (AI) and other technologies in the daily lives of Canadian citizens within a globalized context. Speakers from across academic, public, community/not-for-profit and business sectors will explore with the audience the transformative impacts of technology related to digital threats to democracy. Following these presentations, a number of possible storylines will emerge based on the key digital trends under discussion. Audience members will be called upon to examine possible societal outcomes for a number of potential futures. These lightning talks will frame a discussion on digital threats to democracy and the role of evidence-based policy making to address the associated risks and opportunities to democratic processes in the digital age. This session provides an excellent opportunity for cross-sectoral dialogue and insights related to policy implications on these critical issues with a view to imagining our digital futures.
Symposium 1: Science policy 101
Symposium Organizer: CSPC

Curious about science policy? Whether trying to make a difference or demonstrating impact to funders, the need to engage effectively with policymakers is increasingly part of the research endeavor. But even many of the most experienced research faculty balk at the barriers to bringing their research to the decision-table. For early career researchers and graduate students, the barriers are even higher—as are the rewards. This workshop will provide a gateway into the world of science policy. You will gain an understanding of what science policy is and how it works through an afternoon of interactive exercises and discussion. We welcome active participants from all backgrounds, whether in the sciences, engineering, public policy and administration, business, communications, arts or something else entirely. With an interest in science policy, this workshop is the place to share and expand knowledge, develop skills, and start building a network of interesting people in the world of science policy.

Facilitators
Jeff Kinder
Executive Director, Science and Innovation Institute on Governance

Silke Nebel
VP Science and Conservation, Bird Studies Canada

Career Panelists
Kimberly Girling
Policy Analyst, Innovation, Science and Economic Development Canada

Kori St. Cyr
Senior Advisor, Science Strategies, Canadian Institutes of Health Research

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We are a pan-Canadian network that brings together researchers, older adults, caregivers, partner organizations and future leaders to accelerate the delivery of technology-based solutions that support healthy aging.

Be inspired at: agewell-nce.ca

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Canada’s Technology and Aging Network

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Emerging water challenges in Canada can be tied to climate-change impacts on water availability, urbanization and population growth, water pollution, and threats to aquatic ecosystems. A 2017 report from the World Wildlife Fund in Canada (WWF-Canada) indicated that most of the watersheds in Canada are showing significant disruptions from human activities such as hydro-power dams, discharges from agricultural and industrial activities, rapid urbanization, extensive application of road salt, and incidents involving natural resources extraction. At the same time, Canada has an unmatched, century-long history of peacefully managing shared water resources with the United States. In recent years, landmark water-sharing agreements have emerged, which engage Indigenous communities as important stakeholders. Canadian companies have developed advanced technologies for water treatment and monitoring.

Public perceptions play an important role in this respect. In a recent survey conducted by RBC, 45% of Canadians believe water is Canada’s most important natural resource and 50% believe water is an important part of Canada’s national identity. However, only 6% of Canadians say they put extra effort into saving water and only 50% of Canadians say they have an adequate understanding of the impact of climate change on water availability and quality. These findings reveal some contradictory perceptions held by the Canadian public, which value water as an important natural resource, and yet demonstrate inattention to water resources under the presumption that it is an abundant resource.

One major stumbling block for Canada is that it does not have a common, ambitious and visionary national water vision. Unlike almost all developed countries in the world, Canada does not have a common, ambitious and visionary national strategy to manage its water resources, including those with similar federated constitutions. This means, for example, that no federally enforceable standards exist for safety and environmental/economic sustainability for drinking water, wastewater, stormwater and ground water extraction. Further, the absence of a national water vision has led to varied, and sometimes chequered, approaches for addressing the water management challenges in Canada, including disproportionately disadvantaged Indigenous communities, an increasing water infrastructure deficit and failing to declare water as a human right. Development of a common national vision that is jointly developed through engagement of stakeholders at various jurisdictional levels is an important first step in addressing Canada’s water challenges.

In this respect, a new comprehensive framework can be used to address these interconnected water challenges in one fell swoop: The Sustainable Development Goals (SDGs) developed by the United Nations that aim to achieve significant and ambitious improvements by the year 2030. Countries across the globe, including Canada, are re-tooling their national development strategies to meet these global targets. Another pertinent development is the designation of 2018-2028 as the International Decade for Action “Water for Sustainable Development.” A pan-Canadian alliance of universities, civil society organizations, private sector leaders, and environmental group—called the International Water Decade Alliance (IWDA)—brings together the SDG implementation with the new water decade.

This symposium will highlight the need for a national water vision in Canada and bring together experts from across Canada to begin a discussion on the opportunities and obstacles of achieving a common vision. This symposium will foster ideas, leading to actionable strategies, and steps necessary for making this visioning process a success.
Symposium 3: Supporting Canada’s energy transition—Bridging the gap between fundamental research, industry and policy

**Symposium Organizer: Queen’s University**

For our prosperity and well-being, Canada must build a low-carbon energy future. The pathway to this future requires political leadership informed by collaboration with various partners—including government, Indigenous peoples, researchers, and industry.

Science and innovation will be key to driving this low-carbon future. Expertise in energy sources (e.g. petroleum, natural gas, renewables, and nuclear) and policy will be critical to informing the technologies, materials, and processes that facilitate this transition. Before this research can inform government processes and policies—and before emerging technologies can be commercialized and mobilized—efforts must be made to translate and effectively bridge the research-industry-government gap. This is not an easy journey, filled with barriers (e.g. regulatory hurdles, training, financial resources), and much promising research gets “lost” along the way.

Building on Natural Resources Canada’s (NRCan) Generation Energy initiative and the successful workshop (Envisioning a Competitive Low-Carbon Energy Future: The Role of Nuclear and Renewables) hosted by Queen’s University and NRCan in 2017, this symposium will explore how we can facilitate and accelerate knowledge translation and exchange (KTE) to help realize our low-carbon economy. What are the tools for KTE between these various bodies? What role can the various partners play in accelerating KTE?

**Speakers**

Carolyn DeLoyd
Ph.D Candidate, Geography and Planning, Queen’s University

Mike Dumoulin
Vice-President Engineering Division, National Research Council

Joy Romero
Vice President Technology & Innovation, Canadian Natural Resources Limited

Michael Fraser
Vice-Principal (University Relations), Queen’s University

Monica Gattinger
Director, Institute for Science, Society and Policy

Praveen Jain
Professor, Canada Research Chair, Electrical and Computer Engineering, Queen’s University

Warren Mabee
Head and Professor, Department of Geography and Planning Queen’s University

Ron Oberth
President, Organization of Canadian Nuclear Industries

Laura Oleson
Director General of Energy Policy, Natural Resources Canada

Kimberly A. Woodhouse
Vice-Principal (Research), Queen’s University

**Symposium Agenda:** Brainstorming for Canada’s national water vision

<table>
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<tr>
<th>TIME</th>
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| 1:00pm | Opening remarks  
Nicholas Reid, Zafar Adeel |
| 1:10pm | Overview of state of play in Canada  
Courtney Bridge, Zafar Adeel |
| 1:30pm | Foundational panel discussion  
(5 minute comments by speakers, followed by interactive discussion)  
Moderator: Banu Ormeci (Carleton U)  
Irving Leblanc (AFN); Merrell-Ann Phare (CIER); Liz Hendricks (WWF Canada)  
Lisa Prime (PRIME Strategy & Planning) |
| 3:15pm | Introduction of the second session  
Oliver Brandes (U Vic) |
| 3:25pm | Forward looking panel discussion  
(5 minute comments by speakers, followed by interactive discussion)  
Moderator: Zafar Adeel (PWRC)  
Mark Fisher (CGLR); Larry Swatuk (U Waterloo)  
Francis Scarpaleggia; MP Chief Aaron Sumexhaltza (Lower Nicola Indian Band); Julia Baird (Brock U) |
| 4:50pm | Creating synergies, generating ideas, triggering action  
Zafar Adeel |
Symposium Agenda: Supporting Canada’s energy transition—Bridging the gap between fundamental research, industry and policy

TIME ACTIVITY
12:45 PM VIP Guests arrive to Conference Room, where they will receive a briefing from Melinda Knox, Associate Director, Research Profile and Initiatives, and Kelly Blair-Matuk, Associate Director
At 12:55, the podium party will be escorted to their seats and the official program will begin

1:00 PM Warren Mabee welcomes audience and provides overview of the symposium

1:05 PM Kim Woodhouse provides greetings on behalf of the university and outlines research priorities and engagement in energy arena

1:10 PM Laura Oleson provides overview and update on the Generation Energy initiative

1:30 PM Keynote presentation from Monica Gattinger on the current state of energy research in Canada

2:10 PM Panel discussion on accelerating KTE for energy transition
Panel moderator: Warren Mabee
Panel participants:
Research representatives:
• Praveen Jain
• Monica Gattinger
Government representatives:
• Laura Oleson
• Michel Dumoulin
Industry representatives:
• Ron Oberth
• Joy Romero
Graduate student representative:
• Carolyn DeLoyde

3:40 PM Michael Fraser provides closing remarks

Symposium Agenda: Policy and funding models for graduate students and postdoctoral fellows

TIME ACTIVITY
1:00pm Welcome and Introductory Remarks
1:20pm Keynote—Dr. Kay Lund
2:00pm Panel Discussion and Q&A
3:00pm Closing Remarks

Symposium 4: Policy and funding models for graduate students and postdoctoral fellows
Symposium Organizer: University of Toronto

Doctoral students and postdoctoral fellows (PDFs) are intrinsic to the postsecondary research that results in benefits for our economy and society. The Fundamental Science Review highlighted this point but also found that, despite significant increases in graduate enrolments, the number of core graduate awards and PDF stipends as well as the amount of the awards, has not changed in more than a decade. In responding to the Review as part of Budget 2018, the federal Government noted that it would undertake work to determine how to better support this next generation of researchers through scholarships and fellowships.

An international keynote speaker and a diverse panel will discuss policy models and opportunities to reinvestigate scholarships and fellowships for graduate students and PDFs, and how the use of these awards can attract diverse talent from Canada and internationally.

Speakers
Alejandro Adem
Chief Executive Officer and Scientific Director, Mitacs Inc.

Martha Crago
Vice-Principal, Research and Innovation, McGill University

Bonnie Le
Banting Postdoctoral Fellow, Rotman School of Management at the University of Toronto

P. Kay Lund
Director of the Division of Biomedical Research Workforce, NIH Extramural Research Training Officer in the Office of Extramural Research, Office of the Director, at the National Institutes of Health

Moderator
Vivek Goel
Vice President, Research and Innovation at the University of Toronto and a Professor in the Institute of Health Policy, Management and Evaluation at the Dalla Lana School of Public Health
Symposium

1:00pm – 4:30pm JOLIET-FRONTENAC

Symposium 5: Equity, diversity and inclusion in science: From policy to implementation

Symposium Organizer: Imogen Coe, Faculty of Science, Ryerson University

The added value to Canadian science of embracing equity, diversity and inclusion (EDI) is increasingly being identified by policymakers, funding organizations, the post-secondary education sector and other parts of the scientific research & development eco-system as an economic imperative. Fully leveraging the talent pool, the human capital and the diversity opportunity that exists in Canada is also a key element in developing and maintaining a stronger innovation ecosystem. Strategies designed to promote and embrace EDI in all aspects of Canadian science currently exist or are in development at various levels. For instance, the federal government, through the tri-councils, has created explicit criteria relating to EDI expectations and requirements (particularly relating to the four designated groups under the Employment Equity Act) for a number of programs including, but not limited to, the Canada Research Chairs (CRCs) and Canada Excellence Research Chairs (CERCs). Canadian universities, through Universities Canada, have made explicit commitments to implementing principles of EDI. Details are vague. Moreover, in the recent federal budget, significant new investments in science were framed by expectations for the development of programming (e.g. AthenaSWAN, ADVANCE) that would support the implementation of policies and processes to increase and improve EDI within Canadian science. While these initiatives all speak to a commitment to embracing EDI in science, the reality is that moving from policy to implementation is currently challenged by the low levels of awareness and education around EDI theory and practice within the scientific community. There are limited interactions between the scientific community and academic institutes, scientific societies and conferences, and others, move from policy to implementation of EDI principles.

EDI experts and a general lack of understanding of best practices, which, when combined with inertia and pushback from some parts of the community, may limit the effective integration of EDI into Canadian science. Therefore, it is imperative that the scientific community and all stakeholders are actively engaged in the development and implementation of well-designed, data-driven, evidence-informed approaches that raise awareness, drive education, define actions and achieve measurable outcomes that integrate EDI into the scientific enterprise in Canada.

This interactive symposium will bring together experts and practitioners to lead a dialogue on the current state of our understanding of EDI in science in Canada and to provide specific actionable approaches which will help individuals, departments, divisions, faculties, research institutes, scientific societies and conferences, and others, move from policy to implementation of EDI principles.

Symposium Agenda: Equity, diversity and inclusion in science: From policy to implementation

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<th>TIME</th>
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<tr>
<td>1 – 1.15pm</td>
<td>Arrival and Welcome</td>
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<tr>
<td>1.15 – 2pm</td>
<td>Summary—what we have heard at CSPC2018—actions in support of moving from policy to implementation</td>
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<tr>
<td>2pm – 3pm</td>
<td>What was missing—in action-oriented approaches to EDI implementation</td>
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<tr>
<td>3pm – 3.30pm</td>
<td>Coffee Break (Laurentian)</td>
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<tr>
<td>3.30pm – 4.30pm</td>
<td>Q and A Discussion Summary of actions—take home and implement—what’s in your toolbox?</td>
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Moderator

Imogen Coe
Professor, Chemistry and Biology, Ryerson University

Speakers

Art Blake
Associate Professor and ECI Faculty Chair, Ryerson University

Deanna Burgart
Self-proclaimed Indigeneer™, engineer, speaker, and mentor

Danika Goosney
Associate Vice-President, Tri-Agency Institutional Programs Secretariat

Steven Murphy
President and Vice-Chancellor, University of Ontario Institute of Technology
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