



**CSPC** PROFESSIONAL DEVELOPMENT  
**WORKSHOP MODULE**

***CSPC's series of training workshops are designed to enable the next generation of science policy experts***

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- Designed to enable the next generation  
of science policy experts
- **Science Policy 101**
  - **Science Diplomacy: New Approaches to International Relations**
  - **Equity Diversity & Inclusion in Science: Creating an EDI Culture**
  - **Best Practices in Evidence-Based Decision Making**
  - **Science Communication: Linking Research to Policy and the Public**
  - **How to Become a Science Entrepreneur**



Workshops will be assembled upon request by organizations and a certificate of completion will be provided, for more information contact: [info@sciencepolicy.ca](mailto:info@sciencepolicy.ca)





# SCIENCE POLICY 101



## Led by Jeff Kinder, PhD

Executive Director, Science and Innovation, Institute on Governance. Former Director, Federal S&T Secretariat. Author and co-editor, *A Lantern on the Bow: A History of the Science Council of Canada and its Contributions to the Science and Innovation Policy Debate* (Invenire, 2018).

Researchers and policymakers must engage effectively with each other, for the sake of both: advancement of STI as well as for making policies informed by scientific evidence. Creating a bridge between scientific research and policymaking, this workshop deals with strategies for symbiotic relationships between key stakeholders.

### WHAT TO EXPECT

This day-long workshop will provide a gateway into the world of science policy. The format will be highly interactive with discussions, group exercises, case-study through role play, and a career panel offering examples of the varied job types and career paths in science policy.

### WHO SHOULD ATTEND

Researchers, students, university staff in sponsored research, communications, government relations, sciences, engineering, public policy and administration, business, arts or something else entirely!

\* The facilitators are available for small group meetings with senior faculty or administration.

### WHAT YOU WILL GAIN

- ▶ An appreciation of the structure of government, how government makes decisions, the nature of the policy development cycle, evidence for decision-making
- ▶ Better understanding of the different roles and rationales for science and innovation in industry, academe, and government laboratories
- ▶ Strategies for communicating the challenges of connecting science to policy
- ▶ Network of interesting people in the world of science policy



Contact [info@sciencepolicy.ca](mailto:info@sciencepolicy.ca) to customize this workshop for your organization!



# SCIENCE DIPLOMACY: NEW APPROACHES TO INTERNATIONAL RELATIONS



## Led by Daryl Copeland

Former diplomat. Fellow, Canadian Global Affairs Institute & University of Montreal's Centre for International Studies and Research (CERIUM). Author, *Guerrilla Diplomacy: Rethinking International Relations* (Lynne Rienner, 2009).

The most pressing and “wicked” transnational issues of our times- climate change, resource scarcity, pandemic disease, and weapons of mass destruction – are all rooted in science and technology. We are witnessing our planet being propelled towards a tipping point beyond which recovery may prove impossible. Re-imagining of diplomacy and the role and competencies of the diplomat is imperative if catastrophe is to be averted. We need to develop a synergistic approach to statecraft, and managing the relationship between science, technology, diplomacy, and international relations.

### WHAT TO EXPECT

In this day-long workshop, Mr. Copeland and several other experts will use real-world case studies and draw upon their own experiences on the job to help improve your understanding of science diplomacy as it is currently practiced and where it needs to change. The workshop will include interactive discussions focussing on how to conceptualize and respond to STI-based global challenges, focussing on alternative approaches to diplomatic practice and foreign policy.

### WHO SHOULD ATTEND

Diplomats and civil servants who are engaged in international affairs and strategic policy planning. International relations, political, natural, and social science departments at universities. Scientists and technologists from civil society, the public and private sectors. Relevant NGO and corporate representatives.

### WHAT YOU WILL GAIN

- ▶ An understanding of the role of STI in diplomacy and the complex interactions between bureaucratic politics, public policy, and political power
- ▶ An appreciation of the critical issues, barriers, and obstacles facing science diplomacy
- ▶ Knowledge of Canadian capacity and resources, strategic advantages, and challenges
- ▶ An assessment of best practices in science diplomacy and key multilateral and domestic institutions
- ▶ Strategies to apply new concepts in the analysis and treatment of real-world problems



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# EQUITY DIVERSITY & INCLUSION IN SCIENCE: CREATING AN EDI CULTURE

EDI is a core competency, has social and economic implications, and ultimately fosters excellence. You can be an ally and share your stories! If you want to achieve excellence through EDI, make it a priority, and create an EDI culture at your organization- this workshop is for you.



## WHAT TO EXPECT

A day-long workshop, where experts in the field of EDI will discuss real-world case studies and share best practices for incorporating EDI in science. The workshop will include interactive discussions of key challenges facing various stakeholders (women, visible minorities, people with special needs, indigenous peoples, and others) with a focus on how to lead change and embed EDI policies into your organization's culture and operations.

## WHO SHOULD ATTEND

Executive and manager level professionals, decision makers at organizations, scientists, graduate students, and anyone who is interested in leading change and has a passion for bringing greater equity, diversity, and inclusion in science.

## WHAT YOU WILL GAIN

- ▶ Knowledge of best practices and approaches to improve EDI in science
- ▶ Sensitization to the intersectional and multi-faceted nature of EDI
- ▶ Understanding of what it takes to change the organizational climate beyond implementing policy, including unconscious biases and how to manage them
- ▶ Knowledge of how to indigenize and decolonize systems
- ▶ Appreciation for how EDI contributes to creating a productive work environment and fosters excellence

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# BEST PRACTICES IN EVIDENCE-BASED DECISION MAKING

Are policymakers using best possible evidence to inform decision making? What is credible evidence and how do policymakers access it? How should our policy making system adopt best practices to address the rapidly changing realities in our society while reflecting our values? These are some critical questions which affect all of us at organizational and individual levels; and can be addressed through the lens of all three stakeholders: researchers, policymakers, and the public at large.

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## WHAT TO EXPECT

This day-long workshop will help you learn the best practices of EBDM through real-world case studies in Canada and internationally. The format will be highly interactive with discussions, group exercises, and case-studies. We offer customized workshops geared toward governments at all levels, as well as academic research institutions and think tank audiences, across various sectors!

## WHO SHOULD ATTEND

Civil servants at all levels: strategy planning, risk management, program delivery, knowledge management. Researchers, professors, students, and university personnel dealing with research management, communications, and government relations. Philanthropies, charities, and other non-governmental organizations.

## WHAT YOU WILL GAIN

- ▶ Insight into the process of how evidence feeds into government decision-making in practice and how policymakers weigh information coming from different sources
- ▶ An appreciation for some of the challenges and opportunities in using emerging technologies like AI and Big Data to inform policy making
- ▶ Understanding of the importance of including indigenous knowledge in decision-making and how to embrace lived experiences in scientific knowledge production
- ▶ Knowledge of the principles of scientific integrity including issues related to communication of science to the public



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# SCIENCE COMMUNICATION: LINKING RESEARCH TO POLICY AND THE PUBLIC



Simplifying science for its intended audience, without losing the scientific essence is a tough but crucial balance! When done right, it can translate science into action- in the form of policy. Great science communication can also result in greater public engagement by bridging the gaps between scientific and social values. If you are looking for strategies to walk this tightrope- we can help!

## WHAT TO EXPECT

This day-long workshop will help you learn the best practices of science communication for two important audiences:

- ▶ General Public
- ▶ Policy Makers

The format will be highly interactive with discussions, group exercises, case studies, and role-play to practice communication strategies. We offer customized offerings geared toward governments at all levels, as well as research institutions.

## WHO SHOULD ATTEND

Civil servants at all levels, researchers in academia and government, students, and all those interested in engaging policy makers and / or the general public on issues related to science and technology.

## WHAT YOU WILL GAIN

- ▶ Skills to manage challenges of communicating science to non-scientific audiences
- ▶ Techniques for analysing and visualizing data to communicate effectively
- ▶ Awareness of issues related to science and society
- ▶ Communication goals and methods which resonate with policy makers
- ▶ Skills for using different modes and mechanisms of communication including social media, e.g.: twitter
- ▶ Understanding of the best practices in engaging the traditional media

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# HOW TO BECOME A SCIENCE ENTREPRENEUR

Did you know, Canada is among the top 2 countries for early stage entrepreneurship activity among the G-7 nations? And that the highest percentage of Canadian entrepreneurs are between ages 18 to 34?

If you have an innovative idea related to science and technology, but don't know how to start with turning it into a business, this workshop is for you!

## WHAT TO EXPECT

This day-long workshop will provide knowledge and insights on how to become an entrepreneur and bring to you real examples of scientists in various disciplines who have succeeded in doing this! The workshop will include group discussions, case studies, and basics of entrepreneurship. The focus will be on various sectors experiencing growth using STI including smart technologies, AI, quantum computing, life sciences, environmental sciences and clean tech, and others. Workshop topics will be customized for your audience.

## WHO SHOULD ATTEND

Scientists, early career researchers, postdoctoral and PhD candidates, engineers and technologists, and all those interested in science entrepreneurship!

## WHAT YOU WILL GAIN

- ▶ Knowledge of the basics of entrepreneurship- a roadmap on how to start
- ▶ Tips on how to create a commercial value proposition from your research
- ▶ Interactions with real science entrepreneurs, learn about their journey to get informed and get inspired
- ▶ Industry knowledge of emerging trends for start-ups in various STI sectors
- ▶ Awareness of the Canadian business climate, opportunities, and challenges for start-ups
- ▶ Access to resources related to obtaining seed funding



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# PROFESSIONAL DEVELOPMENT WORKSHOP MODULE



## LOOK OUT FOR CSPC'S FUTURE OFFERINGS:

- ***Leadership in Science & Innovation Policy***
- ***Science Meets Parliament***
- ***Science Meets Government***



Want CSPC to customize a workshop for your organization?  
We are happy to work with you!

Have a workshop for the science policy community?  
CSPC wants to partner with you to take it across the country!

Contact us at: [info@sciencepolicy.ca](mailto:info@sciencepolicy.ca)

For more information visit: <https://sciencepolicy.ca>

