

ISSSP

INSTITUT DE RECHERCHE SUR LA SCIENCE,
LA SOCIÉTÉ ET LA POLITIQUE PUBLIQUE
INSTITUTE FOR SCIENCE, SOCIETY AND POLICY



uOttawa



ISSP NEWS MAY/JUNE 2019

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The ISSP has moved!

We are now based on the 15th floor of the Faculty of Social Sciences Building. Our new location will help us expand ISSP networks and reputation within and beyond the University.

We hope to see you there soon!

MEMBER SPOTLIGHT

DR. MARK SALTER

CORE MEMBER, ISSP



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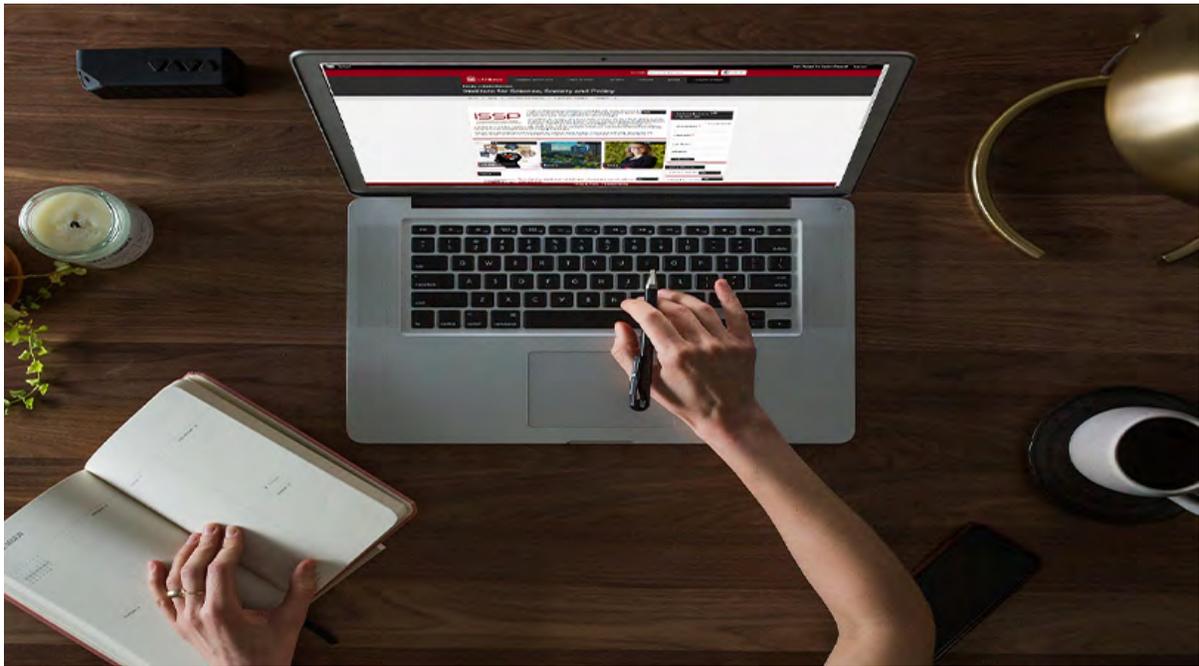


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Dr. Mark B. Salter is a full professor at the School of Political Studies, University of Ottawa, the lead researcher in the newly created ISSP's **Risk, Technology and Security** Research and Engagement cluster and the editor of **Security Dialogue**, a top-ranking academic journal in the field of security studies. After receiving his doctorate from the University of British Columbia in 1999, Professor Salter taught for three years at the American University in Cairo. In 2007, he was the recipient of the National Capital Educator's Award and the Excellence in Education Prize at the University of Ottawa. In autumn 2008, he was Visiting Fellow at the Centre for Research in the Arts, Social Sciences, and Humanities, Wolfson College, and Visiting Scholar at the Centre of International Studies at the University of Cambridge. In 2014, he received the Canadian Political Science Association Prize for Excellence in Teaching. In 2016, his edited volume ***Making Things International 1*** won the International Studies Association Theory section prize for best edited volume.

Salter's research focuses on critical security studies and International Relations. He has written on securitization, border security, airport and aviation security, and most recently on Actor–Network Theory. He is editor of *Making Things International 1* and *Making Things International 2*, *Research Methods in Critical Security Studies* with Can E. Mutlu, *Politics at the Airport*, *Global Policing and Surveillance: Borders, Security Identity* with Elia Zureik, as well as special issues on Border Security as Practice, Critical Security Studies in Canada, and the Forums of International Political Sociology. He is the author of *Rights of Passage: The Passport in International Relations*, *Barbarians and Civilization in International Relations* (also published in Chinese) and articles in: International Political Sociology, Alternatives, Security Dialogue, International Studies Perspectives, Review of International Studies, Citizenship Studies, the Journal of Air Transport Management, and the Journal of Transportation Security, among others.

ISSP RESEARCH CLUSTERS



The ISSP is launching five new Research and Engagement Clusters. The thematically structured Clusters leverage uOttawa expertise in key areas of science-society-policy. They will each be led by a Core Member of the ISSP. Collectively, the Cluster leads span four faculties and comprise both emerging and established scholars.

For more information, please visit the **ISSP website**, follow the **ISSP Twitter account** or contact the ISSP's Research Director, **Dr. Marisa Beck**.



The Arctic is warming at twice the rate of the global average and the risks and opportunities that the current and expected impacts of climate change will play a major

role in redefining and shaping Canada for the next century.

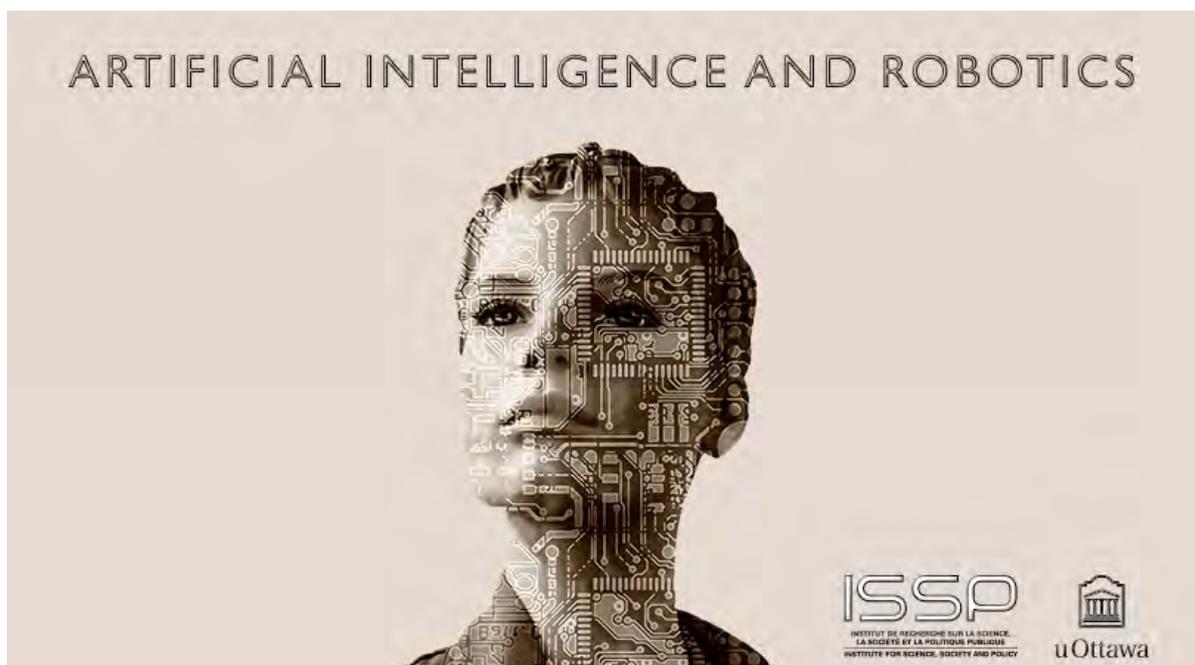
Investment in the Arctic globally is expected to be over \$225bn over the next decade as climate change improves international shipping routes and marine-based accessibility to natural resources and tourism opportunities. This is a situation that will test Canada's safety and security, it could change maritime trade routes and related international geopolitics, and it will challenge northern communities.

It is vital that research be used to support policy for and management of this new Arctic frontier in ways that ensure the establishment of a sustainable and prosperous Arctic Canada while also safeguarding northern ecosystems and respecting the rights and traditions of Indigenous northerners.



The **Arctic Change** cluster is headed by **Jackie Dawson**, Core Member of the ISSP, Canada Research Chair in Environment, Society and Policy, Associate Professor at the Department of Geography, Faculty of Arts and ArcticNet's scientific co-director at the University of Ottawa.

For more information, please visit the **ISSP website**, follow the **ISSP Twitter account** or contact **Professor Jackie Dawson**.



Researchers in the ISSP's Artificial Intelligence and Robotics Research Cluster focus on

three overlapping, interdisciplinary, areas of research. First, they investigate the underlying social implications of AI and robotics, such as trust and accountability, to gain a deeper understanding of the issues at play.

Second, they work directly with engineers and computer scientists to develop engineering design practices that take ethical considerations into account in the design of AI and robotics.

Finally, they engage policymakers to work towards policies and governance structures that foster innovation while addressing key social issues that require attention. The ISSP is uniquely positioned to conduct this research with its membership representing faculty members from engineering, law, and the arts and social sciences.



The **Artificial Intelligence and Robotics** cluster is headed by **Jason Millar**, Core Member at the ISSP, and Assistant Professor at the School of Electrical Engineering and Computer Science, Faculty of Engineering.

In June, Jason Millar was awarded the Canada Research Chair (Tier 2) in the Ethical Engineering of Robotics and AI and was appointed to the new CCA panel on automated vehicles and shared mobility.

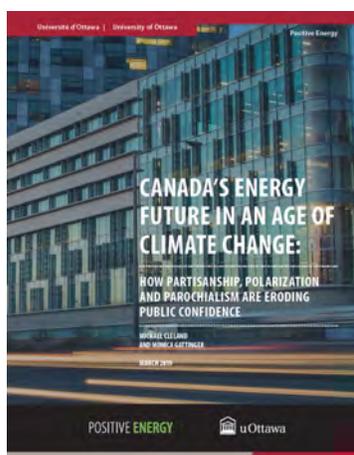
For more information, please visit the **ISSP website**, follow the **ISSP Twitter account** or contact **Professor Jason Millar**.



The ISSP Energy cluster uses the convening power of the university to bring together university experts and key decision-makers from industry, government, Indigenous communities, local communities and environmental organizations to determine how energy can be developed, transported and consumed in a way that garners public confidence and benefits society at large.

The flagship project of the Energy Research cluster is Positive Energy, which undertakes pragmatic, applied, solution-oriented research to find out what works, what doesn't, and how various energy interests can seek and obtain broad social support for energy policies, regulation and individual energy projects and technologies.

Positive Energy's latest report, *Canada's Energy Future in an Age of Climate Change: How Partisanship, Polarization and Parochialism are Eroding Public Confidence*, unpacks the core challenges and opportunities when it comes to building confidence in public authorities making decisions about Canada's energy future in an age of climate change. The study also describes Positive Energy's research and engagement program for the next three years.



Canada's Energy Future in an Age of Climate Change: How Partisanship, Polarization and Parochialism are Eroding Public Confidence
(PDF file)



The **Energy** cluster is headed by **Monica Gattinger**, Director of the ISSP, Chair of Positive Energy and Full Professor at the School of Political Studies, Faculty of Social Sciences.

Read her op-ed about Bill C-69, **The SNC-Lavalin Affair: Lessons For Bill C-69.**

Read her op-ed about the change in government in Alberta, **Kenney Government Takes New Approach On Energy: Will It Work?**

Read her op-ed about the Canada's energy future, **A Tale Of Two Visions: Canada's Polarized Energy Debate.**

Listen to her on the Canadian Global Affairs Institute event **What Role for Canada on the Global Stage?**, on the future of Canadian energy, social license, and the approval of major infrastructure projects.

For more information, please visit the **Positive Energy website**, follow the **Positive Energy Twitter account** or contact **Professor Monica Gattinger**.



We live in a world where everything from the molecular make-up of the cell to the climate system of the planet to the way humans interact with each other has been altered by humans via innovation. The extent of the impacts of innovation on the physical and societal environment begs for a framework to guide the development and use of future innovations.

The activities of this cluster build on the extensive progress made within the responsible innovation framework—one which calls for including a diversity of human values, preferences and needs into decisions about innovations, preferably as they are first being developed.

They also account for the dynamic changes in which innovation occurs these days – the convergence of technological, organizational, social and institutional innovation, the opportunities for social inclusion and exclusion offered by innovations based on progress in digitization and behavioural sciences, and the increasing expectations global citizens have towards innovations that affect their lives and the planet.



The **Inclusive Innovation** cluster is co-headed by **Kelly Bronson**, Core Member of the ISSP, Canada Research Chair (Tier 2) in Science and Society and Assistant Professor at the School of Sociological and Anthropological Studies, Faculty of Social Sciences.



The **Inclusive Innovation** cluster is co-headed by **Sandra Schillo**, Core Member of the ISSP and Associate Professor at The Telfer School of Management.

For more information, please visit the **ISSP website**, follow the **ISSP Twitter account** or contact **Professor Kelly Bronson** or **Professor Sandra Schillo**.



Security is one of the most foundational appeals in politics. Providing security is the primary function of the state with an ever-changing matrix as threats, vulnerabilities, and potential solutions constantly shift and evolve.

The dominant mode of thinking through security policies is risk management, understanding that environmental threats and vulnerabilities must be accepted, mitigated, deferred or rejected. Technologies can be force-multipliers that lead to effective and efficient policy responses and vectors of vulnerabilities themselves.

Because of the complexity of security politics and the complexity of technological solutions, good security policy requires serious, sustained and ethical analysis to ensure that democratic principles are honoured in our policy solutions.



The **Risk, Technology and Security** cluster is headed by **Mark Salter**, Core Member of the ISSP and Full Professor at the School of Political Studies, Faculty of Social Sciences.

For more information, please visit the **ISSP website**, follow the **ISSP Twitter account** or contact **Professor Mark Salter**.



OUTREACH

PUTTING THE RESULTS OF RISK DELIBERATION TO GOOD USE



@risque / @RISK

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With a focus on risk assessment and management, this @Risk public panel explored the extent to which the results of stakeholder deliberation are being or should be incorporated in evidence-informed decision-making. The @Risk research and engagement project aims to contribute recommendations to policymakers and regulators on when and how to incorporate broader public values into risk management processes. Research is focused on how to better address tensions that arise in public decision-making when experts and public stakeholders have different perceptions and preferences for how to deal with hazards and risk issues.

Photos, videos and bios of the participants are available respectively on our **Facebook page**, **YouTube Channel** and at the **event's website**.



**CO-PRODUCING ENVIRONMENT AND
AGRICULTURE IN GREECE, 1945-2010:
EXPERTS AND THE WATER-TOXICITY NEXUS**

MAY 27 | FSS 4004 | UOTTAWA



STATHIS ARAPOSTATHIS

ASSISTANT PROFESSOR,
HISTORY OF SCIENCE AND TECHNOLOGY

NATIONAL AND KAPODISTRIAN
UNIVERSITY OF ATHENS

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UOTTAWA

Faculté des arts
Département d'histoire
Faculty of Arts
Department of History

The ISSP, the Department of History and Kelly Bronson, Core Member of the ISSP and Canada Research Chair (Tier 2) in Science and Society were delighted to host Professor Stathis Arapostathis from the National and Kapodistrian University of Athens.

His talk focused on the politics of expertise and the co-production of sociotechnical imaginaries, expertise identities, and public policies in agriculture, as they relate to the use of fertilizers and water management in Greece between 1945 - 2010. By applying the concept of the "co-productionist idiom," the talk highlighted the processes of appropriation of technoscientific knowledge and the dynamic processes of agricultural politics in postwar Greece. Experts functioned not only as mediators but as promoters and shapers of sociotechnical imaginaries in Greece, and they directed specific policies to promote or control the use of fertilizers, particularly nitrogen fertilizers.

Bios of the participants are available at the [event's website](#).



TEACHING/TRAINING

SCIENCE OUTSIDE THE LAB NORTH



For the last four years, a program called Science Outside the Lab North (SOTL North), has been helping graduate students from across the country learn about science and technology decision-making in Canada. The program takes place at ISSP at the University of Ottawa, and at Concordia University in Montreal.

This year, SOTL North hosted two groups - for one week each – of masters, PhD students and postdocs (29 in total) studying sciences, engineering, social sciences, and humanities. The groups each spent four days in Ottawa and three days in Montréal, engaging directly with people in government, non-profit groups, universities, and companies who work at the intersection of science and policy.

"After an intensive boot camp on science policy and communication at the University of Ottawa, we crisscrossed the capital, getting a behind-the-scenes look at how decisions are actually made," said Professor Mathew Harsh, a program coordinator based at California Polytechnic State University in the USA. "We wanted to explore the questions: Who is involved? What evidence matters? How does science intersect with public and private interests and values?"

"Students learned just as much from each other as they did from instructors and speakers in both cities," observed Eric Kennedy, the director of the program based at York University.

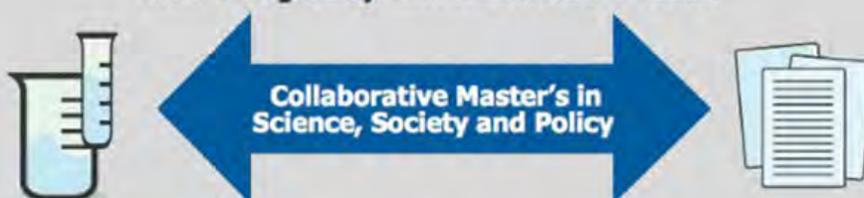
For additional information, please contact either **Matthew Harsh** or **Eric Kennedy** or visit **the program's website**.

SOTL North is supported by the Centre for Engineering in Society at Concordia University, the Institute for Science, Society and Policy at the University of Ottawa, the University of Waterloo Chair in Science and Society, the Center for Expressive Technologies at California Polytechnic State University, and the School for the Future of Innovation in Society at Arizona State University.



THE ISSP COLLABORATIVE MASTER'S IN SCIENCE, SOCIETY AND POLICY

How does **science** inform **policy**?
How can **policy** drive **science + tech**?



September 2018 marked the fourth year that the ISSP has offered its collaborative Master's Program with eleven participating departments and faculties. We've continued to experience a steady rise in the number of inquiries from students and faculty members alike about the admission criteria and program requirements.

The program provides an opportunity for existing graduate students to gain additional training. To be accepted into the Collaborative Master's program, students must be admitted to one of the participating programs at the University of Ottawa.

For more information, please visit the [ISSP Collaborative Master's program website](#) or contact **Professor Daniel Paré**, the Program Coordinator.

ISSP MEMBER AND RESEARCHER ACTIVITIES



Jacob Berkowitz, Writer in Residence at the ISSP debuted his new play, ***Entangled***, at the Ottawa Fringe Festival.

Read his blog post [Quantum Dreams: New Play Explores Carl Jung and Wolfgang Pauli's Relationship](#), the central theme of his play.

Paul Dufour, Senior Fellow at the ISSP and Adjunct Professor, University of Ottawa, and Dr. Agnes



Herzberg, Professor Emeritus of Mathematics and Statistics at Queen's University, completed their new book ***The Value of Science in Society and Culture: Selections from the Speeches, Essays and Articles of G. Herzberg.***



Margaret McCuaig-Johnston, Senior Fellow at the ISSP, commented extensively in the media about the current status of Canadian-Chinese international relations.

Watch her interview at BNN Bloomberg News, **Why Huawei's R&D money for Canada could be making partners 'complicit'**.

Read her Op-ed for the Globe and Mail, **Now is not the time to be expanding research partnerships with Huawei.**

Read The Hill Times article, **Despite opposition pressure, lack of ambassador to China likely hasn't made much difference, say ex-diplomats.**



Marc Saner, Inaugural Director and Core Member of the ISSP, as well as Full Professor and Chair of the Geography, Environment and Geomatics Department at the University of Ottawa was quoted in the La Presse article **Quatre Inquiétudes.**

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