



ISSP News January / February 2018

- Director's Message
- Member Spotlight:
Jennifer Kuzma
- Research:
 - @Risk
 - Positive Energy:
Public Confidence
 - Positive Energy:
Trust in Transition
 - *Innovation21*
- Outreach:
 - Science Advice in
Canada: Are we
Entering a New
Renaissance?
 - ISSP-RCIScience
Lecture Series
 - Ottawa Book
Launch and Public
Panel
- Teaching / Training:
 - The ISSP
Collaborative
Master's
- ISSP member
activities and
publications



Director's Message

Welcome to the January/February issue of the ISSP News! We hope you have enjoyed our new approach so far.

This winter has been an extremely active period for the ISSP across our three activity streams: research, outreach and teaching/training.

In research, we were delighted to welcome Dr. Jennifer Kuzma, co-director of North Carolina State University's Center for Genetic Engineering and Society, as the ISSP's 2018 Canada-US Fulbright Research Chair in Science and Society. We also held research workshops, published studies and moved forward on research activities in our @Risk, Positive Energy and Innovation21 projects.

In outreach, In outreach, we held a number of premiere events, including a public panel bringing together the federal, Ontario and Quebec science advisers for the first time on the same stage. We also launched a lecture series on science, society and policy with the Royal Canadian Institute for Science.

In teaching and training, our Collaborative Master's program in Science, Society and Policy is recruiting for this year's cohort.

We hope you enjoy this issue of the ISSP News and welcome your feedback

and comments.

Kind regards,
Monica Gattinger



Member Spotlight: Jennifer Kuzma

Dr. Jennifer Kuzma joins the ISSP as the Canada/US the the Fulbright Visiting Research Chair in Science and Society for the winter 2018 term. Dr. Kuzma is the Goodnight-NCGSK Foundation Distinguished Professor in the **School of Public and International Affairs**, and co-director of the Genetic Engineering and Society Center, at North Carolina State University. Prior to this, she was associate professor of science and technology policy at the University of Minnesota (2003-2013); study director at the U.S. National Academies of Science (NAS) (1999-2003); and an AAAS Risk Policy Fellow at the USDA (1997-1999). She has over 100 scholarly publications on emerging technologies and governance and has been studying this area for over 25 years.

She has held several other leadership positions, including member of the U.S. National Academy of Sciences Committee on Preparing for Future Biotechnology, Society for Risk Analysis (SRA) Council Member and Secretary, Chair of the Gordon Conference on Science & Technology Policy, Member of the US FDA Blood Products Advisory Committee, and a Member of the UN WHO-FAO Expert Group for Nanotechnologies in Food and Agriculture. In 2014, she received the SRA Sigma Xi Distinguished Lecturer Award for recognition of her outstanding contributions to the field of risk analysis. She is cited and interviewed frequently in the media for her expertise in

biotechnology policy, including the New York Times, Science, Nature, NPR, Washington Post, Scientific American, The Boston Globe, PBS Nova, Wired, and ABC & NBC News.

While at the ISSP, Prof Kuzma is exploring the interplay of science and values in decision making about new biotechnologies applied to food within the Canadian innovation and governance contexts. She will take a comparative approach to the U.S. system and landscape, which she has been studying for over two decades. Her work is designed to help inform GM food debates and policy, as well as contribute to ISSP's @Risk project, in which she will be leading the genomics cluster.



@Risk

@Risk: Strengthening Canada's Ability to Manage Risk, is a SSHRC / Genome Canada funded two-year research project (2017-2019) that focuses on how to reconcile the tensions inherent in public decision-making in situations where experts and public stakeholders have distinct perceptions and preferences about risk and how to mitigate it. The research goal is to identify conceptual frameworks and mechanisms to strengthen Canada's risk management capacity in situations where expert and lay public assessments of risk differ.

By the end of 2017, Research Assistants had described mechanisms for stakeholder input and the information and communication environment for each case (Nuclear Waste Disposal; Hydraulic Fracturing; Cancer Screening; Vaccine Hesitancy; Newborn Screening and Gene-edited Foods). An initial conceptual framework for comparing cases has been developed that focuses on the degree of individual agency involved in each case, risk management intervention tools, and the degree of democratization of decision-making. Case leads and Research Assistants are testing the comparative framework throughout the winter term.

Soon, interested observers will be able to follow the ISSP @Risk project on its own website. Our **Twitter** account was launched last year.



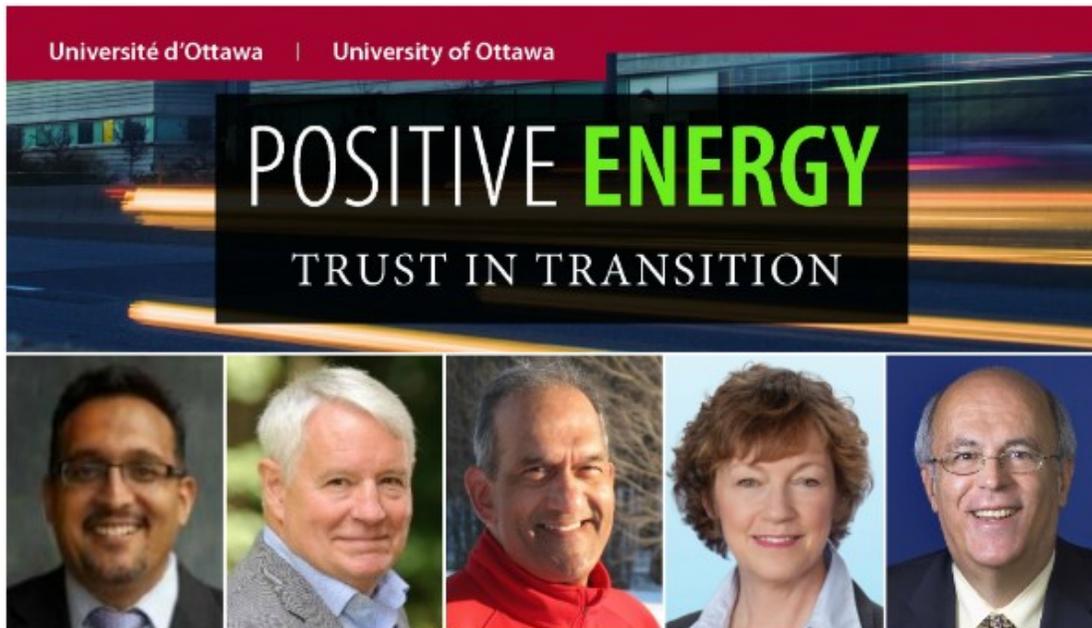
Positive Energy: Public Confidence

The University of Ottawa's Positive Energy project seeks to strengthen public confidence in Canadian energy policy, regulation and decision-making through evidence-based research and analysis, engagement and recommendations for action. It 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 resources can be developed in a way that garners acceptance and benefits society at large. The project undertakes pragmatic, applied, solution-oriented research to find out what works, what does not, and how various energy interests can seek and obtain broad social support for energy policies, regulation and individual energy projects.

In December, Positive Energy released **"Who Decides? Balancing and Bridging Local, Indigenous and Broader Societal Interests in Canadian Energy Decision-Making"**. This report incorporates workshop discussion and critique by senior-level representatives of government, Indigenous communities, energy regulators, NGOs, industry and academics of an earlier discussion document. Authored by ISSP Research Director and Positive Energy team member Stewart Fast, the report sets out recommendations for the question of "who decides" when it comes to energy-policy making, planning, regulation and assessments of individual projects. The political feasibility of recommendations were explored by assessing the views of Canadians and energy elites in polling conducted by research partner Nanos Research. The coming months will see the development of similar reports on topics of "Policy-Regulatory Relations" and "Engagement, Information and Capacity" and a final synthesis paper, synthesizing all of the recommendations, will follow.

This first phase of Positive Energy is due to conclude with a major conference on April 23 and 24, 2018.

Please visit the **Positive Energy website** for more information



Positive Energy: Trust in Transition

In January, Positive Energy hosted the **Positive Energy: Trust in Transition – Public Panel and Planning Workshop**.

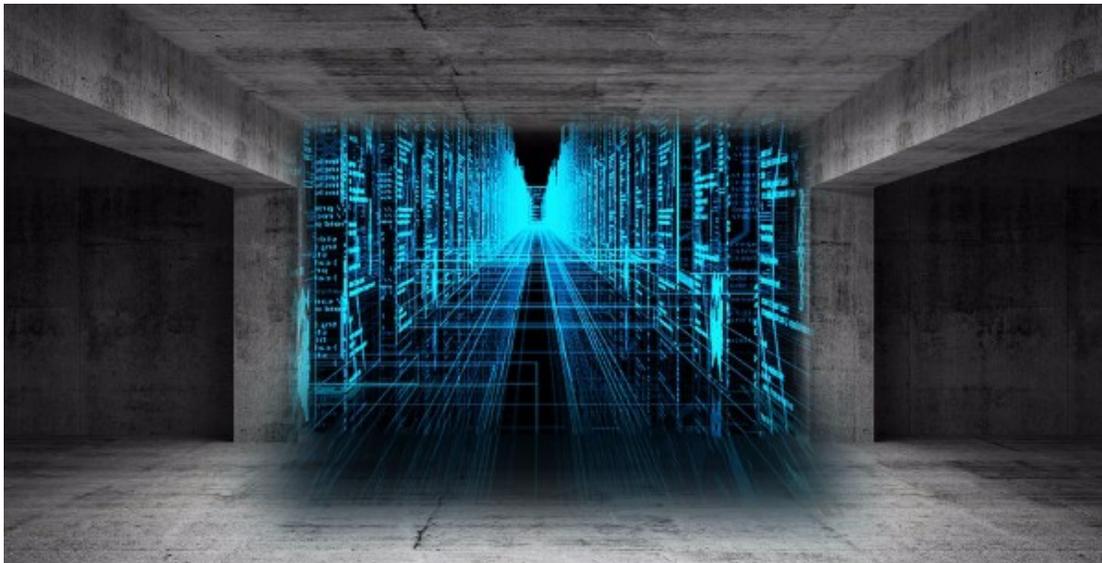
This two-day event was composed of a public panel and a workshop. The public session focused on exploring opportunities and challenges in four areas that affect public confidence and trust in energy transition decision-making: the information base for long-term evidence based policy making; expanded roles for municipal and Indigenous communities; uneven social acceptance of technology; and the role of the conventional resource sector (oil and gas, nuclear) in energy transition. It featured presentations by Jay Khosla, Assistant Deputy Minister, Energy Sector, Natural Resources Canada; Michael Cleland, Senior Fellow Positive Energy Project; Chris Henderson, President, Lumos Energy; Brenda Kenny, Adjunct Professor, University of Calgary and David Runnalls, Visiting Professor, Institute for the Environment, University of Ottawa.

The planning workshop focused on identifying promising areas of research and engagement for the second three-year phase of Positive Energy to start fall 2018. Positive Energy – Trust in Transition focuses on trust and public confidence in low-carbon energy transition decision-making. Transitioning Canada's energy systems to lower carbon configurations will entail, in the relatively brief span of 30 years, a transformation of a nature and scale

approximating that last seen at the beginning of the twentieth century, when power grids and petroleum-based transportation came to dominate energy systems. Public confidence and trust in energy transition decision-making will be an essential driver of the speed and effectiveness with which Canada can transform its energy systems.

Financial support for the panel and workshop came from the Social Sciences and Humanities Research Council (SSHRC), the Canadian Wind Energy Association (CanWEA), Ontario's Independent Electricity System Operator and the University of Ottawa's Faculty of Social Sciences.

For further details on the three-year co-designed research project that will identify how to strengthen public trust in energy transition, please contact **Rafael Dezordi**.



Innovation21

Last fall, the ISSP submitted a Letter of Intent to create a Network of Centres of Excellence (NCE), titled Innovation21: Inclusive Innovation for Emerging and Disruptive Technologies. The undertaking featured strong support from five partners: the Clean Resource Innovation Network, the Government of Québec (Fonds de recherche du Québec), the Community of Federal Regulators, the National Research Council, the Deputy Minister Champion for Federal Science and Technology and the University of Ottawa as the host institution. The LOI proposed four themes: Artificial Intelligence Governance, Energy System Transition, Technology Risk Management and Inclusive Innovation.

The research team features leading scholars and centres of excellence in Canada and abroad. ISSP Core Members (Kelly Bronson, Jackie Dawson, Scott

Findlay, Ian Kerr and Marc Saner), ISSP staff (Stewart Fast) and multiple ISSP Fellows including Paul Dufour, Margaret McCuaig-Johnston, Jeff Kinder and Heather Douglas (Waterloo), were involved in preparing the application. Valuable financial and in-kind support was provided by the uOttawa Vice-President Research Office and the Faculties of Social Sciences and Engineering.

Unfortunately, the LOI was not selected to proceed to the next stage, the preparation of a full proposal. While this is disappointing news, the ISSP remains convinced of the need for this network and will work with the research team and partners to proceed via other funding and activity channels.



Science Advice in Canada: Are we Entering a New Renaissance?

The Institute for Science, Society and Policy hosted for the first time in a public panel the Chief Science Advisor of Canada, Dr. Mona Nemer, the Chief Scientist of Québec, Dr. Rémi Quirion and the Chief Scientist of Ontario, Dr. Molly Shoichet.

University of Ottawa President and Vice-Chancellor Jacques Frémont opened the session. The event continued with a presentation by University of Ottawa Professor and inaugural Director of the Institute for Science, Society and Policy, Dr. Marc Saner, on the **INGSA Manifesto for 2030 – Scientific Advice for the Global Goals** (International Network for Government Science Advice). Afterwards, Dr. Monica Gattinger, Director, Institute for Science, Society and Policy of the University of Ottawa, chaired a panel discussion with

Professor Saner and the three Chief Scientists, who explored the theme, **"Science Advice in Canada: Are We Entering a New renaissance?"**



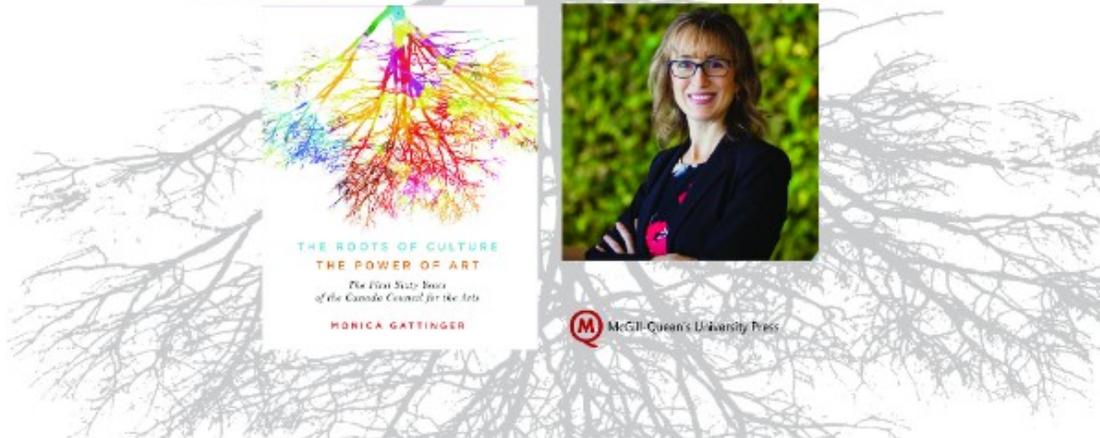
ISSP-RCIScience Lecture Series

The Institute for Science, Society and Policy and the Royal Canadian Institute for Science were delighted to host the inaugural panel in the ISSP-RCIScience Lecture Series, which focused on the impact of emerging science and technology innovations on society.

The panel, which explored **The Promise and Peril of Gene Editing**, featured Dr. Rob Annan, Vice President, Public Affairs and Communications at Genome Canada; Dr. Jennifer Kuzma, Fulbright Visiting Research Chair in Science and Society, ISSP, University of Ottawa (Distinguished Professor, North Carolina State University) and Dr. Janet Rossant, Senior Scientist, Developmental & Stem Cell Biology, SickKids/University of Toronto. The discussion focused on gene editing technology and discussed how CRISPR works, who should be able to edit genes and where this technology could take us.

Dr. Monica Gattinger, Director, Institute for Science, Society and Policy of the University of Ottawa, chaired the session. Dr. Mona Nemer, Chief Science Advisor of Canada, delivered the opening remarks. The session was moderated by Dr. Marc Fortin, Vice-President, Research Partnerships Directorate, Natural Sciences and Engineering Research Council of Canada. Closing Remarks were delivered by Helle Tosine, Past Board Chair, Royal Canadian Institute for Science.

The Roots of Culture, the Power of Art
The First Sixty Years of the Canada Council for the Arts



Ottawa Book Launch and Public Panel

Monica Gattinger, director of the Institute for Science, Society and Policy of the University of Ottawa, has launched her new book ***The Roots of Culture, The Power of Art: The First Sixty Years of the Canada Council for the Arts***, (McGill-Queen's University Press, 2017), on a campus event on January 18. The book depicts the history of the Canada Arts Council.

The **Ottawa Book Launch and Public Panel - The Roots of Culture, the Power of Art** began with a brief presentation of the book by Professor Gattinger, followed by a panel discussion with arts and academic leaders. The panel, composed of Caroline Andrew, Director, Centre on Governance, University of Ottawa and former President of the Federation for the Humanities and Social Sciences; Stephen Blank, Senior Fellow, University of Ottawa; Frédéric Julien, Project Manager, Canadian Arts Presenting Association (CAPACOA) and John Hobday, former Director of the Canada Council for the Arts, explored the past, present and future of arts and academic research funding, state roles in the arts, and the evolution of arts institutions.

Bridge the Gap

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

**NEW Collaborative Master's in
Science, Society and Policy**

Connect with leading experts, understand how real-world science can solve policy challenges, and study science policy right here in Ottawa.
Sign-up today to earn the *Science, Society and Policy* designation!

ISSP Information
 SSP Graduate Program Coordinator
 613-562-5800 x 3911 | sspgrad@uOttawa.ca
 www.issp.uOttawa.ca/en/education @issp_uOttawa

uOttawa

The ISSP Collaborative Master's in Science, Society and Policy

September 2017 marks the third year that the ISSP has been offering its collaborative Master's program with eleven participating departments and faculties. Since January of this year we've experienced a steady rise in the number of inquiries from students and faculty members alike about the admission criteria and program requirements.

The SSP Collaborative Master's 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.

More information can be found [here](#).



ISSP member activities and publications

- **Rukhsana Ahmed**, Core Member of the ISSP, published an article with Mao, Y., entitled **Culture, migration, and health communication in a global context**, Routledge Research in Health Communication. New York, NY: Routledge. Her competitive paper, Patients' perceptions of service quality of private dental care in Canada: The role of communication, presented to the Association for Business Communication of the National Communication Association 103rd Annual Convention in Dallas, TX, USA, was deemed the Top Paper in Business Communication.
- **Kelly Bronson**, Core Member of the ISSP, presented "Foregrounding Values in Agricultural Innovation" to a Food Security Policy Working Group's Innovation Workshop at Global Affairs Canada. Kelly has written an article for Policy Options titled **Looking Twice at the Digital Agricultural Revolution**.
- **Paul Dufour**, Senior Fellow and Adjunct Professor at the ISSP, is currently teaching an undergraduate 4th year course for Science students on Science, Society and Policy. Since January 2017, he has been a regular writer of the **Fast Policy Facts** column for Research Money's Innovation this Week.
- **Patrick Fafard**, Core Member of the ISSP, was awarded the CIHR Planning and Dissemination Grant: "Institutional design for an effective chief public health officer: a comparative case study". He has also published Rethinking Knowledge Translation for Public Health Policy in the scholarly journal Evidence and Policy.
- **Stewart Fast**, Senior Research Associate and Research Director of the ISSP, wrote an Op-ed article for the Hill Times titled **Who Decides on Energy Projects**.
- **Monica Gattinger**, Director of the ISSP, has published her book **The Roots of Culture, The Power Art: The First Sixty Years of the Canada Council for the Arts**, McGill-Queen's University Press, 2017.

- **Rees Kassen**, Core Member of the ISSP, wrote an op-ed article for IPolitics titled **Time is right for Trudeau to step up and invest in science.**
- **Jeremy Kerr**, Core Member of the ISSP, wrote an Op-ed article for the Hill Times titled **Budget 2018: a litmus test for the future of Canadian research.**
- **Jennifer Kuzma**, Fulbright Visiting Research Chair in Science and Society at the ISSP, **was elected an officer of the AAAS Section X on Societal Implications of Science and Engineering.** She will also speak at the AAAS annual meeting on the panel Synthetic Biology: From Technology Development to Risk Governance. Jennifer has authored and helped co-edit **Roadmap to Gene Drives: Research and Governance Needs in Social, Political, and Ecological Context**, GES Center at North Carolina State University.
- **Margaret McCuaig-Johnston**, Senior Fellow at the ISSP, spoke about innovation on a panel at the **inaugural meeting of the Canada-China Joint Committee on Culture.** She spoke in her new role as Distinguished Fellow of the Asia Pacific Foundation of Canada. She has also published **From Field Surgery to Advanced Robotics: Sino-Canadian Relations in Science and Technology**, with the China Institute at the University of Alberta and the ISSP.
- **Patrick McCurdy**, Core Member of the ISSP, helped develop a graphic novel called **The Beast** (preview) which was born from his **Mediatoil** project, looking at how various stakeholders campaigned over the oil/tar sands. The Beast will be launched in September 2018 and will be made freely available from the University of Dakota Digital Press.
- **Marc Saner**, Core Member and inaugural director of the ISSP, presented "**INGSA Manifesto for 2030, Scientific Advice for the Global Goals**" at the ISSP **Science Advice in Canada: Are We Entering a New Renaissance?** event and also chaired the Alex Trebek Forum for Dialogue panel titled **Innovations in science and medicine.** Marc has published **Synthetic Biology and GE³LS, The Benefits of a Total Field View**, Ontario Genomics website.



(Click on the photo to open the video on Youtube)

Monica Gattinger has a message for you



Editor in chief: Monica Gattinger
Writers: Rafael Dezordi, Stewart Fast, Monica Gattinger
Edition, layout, design, translation: Rafael Dezordi

Copyright © 2018 ISSP, All rights reserved.

Want to change how you receive these emails?
You can [update your preferences](#) or [unsubscribe from this list](#).