Agenda

Canada-Europe Track 1.5: Emerging Tech and Cyber Policy

Wednesday, February 19, 2020

Canadian Mission to the EU

Avenue des Arts 58, Brussels, Belgium

Technology offers significant opportunities for human, social and economic development. There are also clear benefits of closer collaboration between Europe and Canada in the digital sphere. However, technology also poses serious challenges to our national and collective security, to international peace and stability, to liberal democracies and can lead to the exclusion and disenfranchisement of the vulnerable or marginalised.

Together the EU Institute for Security Studies (EU ISS), Global Affairs Canada, and the European External Action Service, and the Centre for International Governance Innovation (CIGI) are pleased to host a workshop that will explore how emerging technology is expected to impact international peace and security and how Canada and the EU can cooperate to advance our mutual interests in this domain. We are particularly interested in exploring the impact of new technologies such as AI, quantum computing, IoT and smart cities on cybersecurity.

Through guided conversation, this workshop aims to: enhance Canada-EU dialogue and cooperation on international security and emerging technology; foster greater cooperation and dialogue between Canadian and European academics on international security and emerging technology; and provide recommendations for future Canada-EU engagement on emerging technology and international security.

TIME	SESSION	SPEAKERS
12:30	**Welcome Remarks and Introduction**	**Chris Cooter**, Ambassador of Canada to the European Union **Aaron Shull,** CIGI **Patryk Pawlak,** EUISS **Michael Walma,** Department of Foreign Affairs, Trade and Development Canada **Wiktor Staniecki,** European External Action Service
13:00– 13:10	**Session 1: Scene Setting Remarks International Law**	**Wally Trenholm,** Sightline **Liis Vihul,** Cyber Law International
13:10 - 14:10	**Session 1: Roundtable Discussion**	All

14:10-14:20	Session 2: Scene Setting Remarks Ethics and Norms	Maya Medeiros, Norton Rose Fulbright, LLP Christian Doerr, Cyber Threat Intelligence Lab
14:20 – 15:20	Session 2: **Roundtable Discussion**	All
15:20 – 15:35	Health Break	
15:35 – 15:45	Session 3: Scene Setting Remarks **Foreign Policy**	Stephanie Carvin, Normal Paterson School of International Affairs Madeline Carr, RISCS , UCL
15:45 – 16:45	Session 3: **Roundtable Discussion**	All
16:45 – 17:00	Conclusion and Closing Remarks	Aaron Shull, CIGI Patryk Pawlak, EUISS

Speaker Bios:

MADELINE CARR is the Director of the UK-wide Research Institute in Sociotechnical Cyber Security (RISCS) which looks at the human and organizational factors of cybersecurity. She is also the Director of the Digital Technologies Policy Lab which supports policy making to adapt to the pace of change in society's integration of digital technologies. Her research focuses on the implications of emerging technology for national and global security, international order and global governance. Professor Carr has published on cyber norms, multi-stakeholder Internet governance, the future of the insurance sector in the IoT, cybersecurity and international law, and the public/private partnership in national cyber security strategies. Her book *US Power and the Internet in International Relations* is published by Palgrave MacMillan. Professor Carr was the Co-lead on the Standards, Governance and Policy stream of the UK's £24M PETRAS research hub on the cyber security of the Internet of Things. She is now the lead on the Economics and Law lens of the new PETRAS National Centre of Excellence in Cybersecurity of the IoT. Professor Carr is a member of the World Economic Forum Global Council on the IoT. She is also the Deputy Director of a new Centre for Doctoral Training in Cybersecurity at UCL which focuses on the interdisciplinary nature of these problems.

STEPHANIE CARVIN is an Assistant Professor of International Relations at the Norman Paterson School of International Affairs. Her research interests are in the area of international law, security, terrorism and

technology. Currently, she is teaching in the areas of critical infrastructure protection, technology and warfare and foreign policy. Stephanie holds a PhD from the London School of Economics and published her thesis as Prisoners of America's Wars: From the Early Republic to Guantanamo (Columbia/Hurst, 2010). Her most recent book is Science, Law, Liberalism and the American Way of Warfare: The Quest for Humanity in Conflict" (Cambridge, 2015) co-authored with Michael J. Williams. In 2009 Carvin was a Visiting Scholar at George Washington University Law School and worked as a consultant to the US Department of Defense Law of War Working Group. From 2012-2015, she was an analyst with the Government of Canada focusing on national security issues.

CHRISTIAN DOERR worked in the broad area of network security and critical infrastructure protection. His research focus is designing resilient network systems, localizing and estimating current threats through real-time situational awareness in networks as well as conducting threat intelligence on adversaries. Prior to joining, I was at the University of Colorado, USA, where I received my Ph.D. in Computer Science and Cognitive Science. While most of my work focuses on technology, I also integrate socio-technical aspects of cyber security with this background in my research.

MAYA MEDEIROS is an intellectual property lawyer, patent agent (Canada, US) and trademark agent (Canada, US) and has a degree in mathematics and computer science. She has extensive experience in artificial intelligence, blockchain, cybersecurity, cryptography, payments, graph theory, risk management, gaming, face recognition, communications, healthcare and medical devices, virtual and mixed reality, wearables, and other computer-related technologies. She is a key contributor to www.aitech.law on the ethical and legal implications of artificial intelligence. She advises on IP strategy and develops tailored IP policies and training programs. Ms. Medeiros prepares domestic and international IP registrations and manages international portfolios, including coordinating foreign associates for foreign application prosecution. She also drafts and negotiates agreements relating to IP assets, such as licenses, confidentiality agreements, system access agreements, joint development, and collaboration agreements. Ms. Medeiros assists with due diligence, landscape and freedom to operate evaluations. She is an adjunct professor at Osgoode Hall Law School, York University and teaches a course on the commercialization of intellectual property. She leads a collaboration with IP Osgoode Innovation Clinic to supervise its clinic students and service emerging companies. While obtaining her undergraduate degree, Ms. Medeiros gained valuable industry experience working for a technology start-up company. While completing her law degree, she attended the International Intellectual Property program at the University of Oxford, where she studied Canadian, European and American patent and copyright law.

PATRYK PAWLAK is the EUISS Brussels Executive Officer. In this capacity, he maintains and develops relations with other Brussels-based institutions. In addition, he is in charge of the cyber portfolio, leading the Institute's cyber-related projects and contributing to its outreach activities. He is currently responsible for implementation of the EU-funded project on cyber diplomacy 'EU Cyber Direct'. Since June 2016, he is a member of the Advisory Board of the Global Forum on Cyber Expertise. His work on

cyber-related issues and the European Union's security policies more broadly has appeared in several peer-reviewed journals and edited volumes. Patryk holds a PhD in Political Science from the European University Institute in Florence and an MA in European Studies from the College of Europe.

KATE SASLOW I am a researcher at the intersection of technology and public policy and an avid reader on all things artificial intelligence, AI governance, data-driven policymaking, and feminism. I am currently teaching myself Python for data science and thinking about how important predictive analytics and forecasting are in today's political climate. How artificial intelligence and machine learning development and deployment affect trade dynamics, human rights, and systemic (gender) inequality are three of my most pressing interests.

AARON SHULL As CIGI's managing director and general counsel, Aaron Shull acts as a strategic liaison between CIGI's research programs and other departments while managing CIGI's legal affairs and advising senior management on a range of legal, operational and policy matters. A member of CIGI's executive team, Aaron provides guidance and advice on matters of strategic and operational importance, while working closely with partners and other institutions to further CIGI's mission. He also serves as corporate secretary. Aaron is an expert on cyber security issues. He coordinated the CIGI essay series *Governing Cyberspace during a Crisis in Trust*. In his introduction, he argues that more robust international norms for cyber security are a national imperative for Canada. Prior to joining CIGI, Aaron practised law for a number of organizations, focusing on international, regulatory and environmental law. He has taught courses at the University of Ottawa, Faculty of Law, and the Norman Paterson School of International Affairs and was previously a staff editor for the *Columbia Journal of Transnational Law.* Aaron graduated from the University of Waterloo, placing first in his class as a departmental scholar, with a B.A. (honours) in history and political science. His keen interest in international affairs and political history led him to pursue a M.A. in international affairs at Carleton University's Norman Paterson School of International Affairs, where he graduated with distinction. He concurrently pursued his LL.B. from the University of Ottawa, where he graduated cum laude with first class honours. Aaron received his LL.M. from Columbia Law School, where he graduated as a Harlan Fiske Stone scholar.

SIMONA SOARE Simona is Senior Associate Analyst at EUISS. Her research focuses on United States security policy, transatlantic security and EU-NATO relations. Prior to joining EUISS, Simona served as advisor to the Vice-President of the European Parliament (2015-2019) and as an analyst with the Romanian Ministry of Defence, working on transatlantic and European security. She has also been a research associate with the Institut d'Études Européennes (IEE) at Université Saint Louis-Bruxelles. Simona holds a PhD in Political Science from the National School for Political and Administrative Studies in Bucharest where she lectured on international security (2008-2015). She is the recipient of a U.S. Department of State fellowship on U.S. Grand Strategy and has published extensively on American and transatlantic security.

WICKTOR STANIECKI Wiktor Staniecki is the Head of Cyber Sector in the Security and Defence Policy Division at the European External Action Service. Before assuming this post, he was posted to Tokyo, working in the Political Section of the EU Delegation to Japan. Within the European External Action Service, Mr Staniecki also worked as desk officer for Brazil (2013-2015) and the United States (2008-2013). Previous to his work for the EEAS, he was a consultant at Burson-Marsteller Brussels and worked for the European Commission on entrepreneurship policy. Mr Staniecki holds Master's Degree of European Studies from Adam Mickiewicz University in Poznan, Poland, as well as Diplôme d'Etudes Générales Européennes of Centre Européen Universitaire de Nancy 2.

WALLY TRENHOLM As CEO and co-founder of Sightline Innovation, Wallace (Wally) Trenholm is the chief architect of the company's corporate strategy and technology platform. Wallace is a seasoned entrepreneur with over 20 years of experience across multiple complex science and technology integration products and has a deep technical expertise in machine learning, distributed computing and network security. As a technology visionary and serial entrepreneur, Wally has connected complex science and business with the goal of creating a leading global technology company around artificial intelligence and data trust. Wally was the lead architect behind the first data trust product to market: Sightline Innovation Datatrust, or SID. SID is a fiduciary control fabric for data, allowing data interoperability between distributed partners while preserving ownership and control. Data interoperability allows for the value of data to be unlocked without providing access to copy or harvest data and drives evolution in complex data-driven economies and supply chains with applications in agriculture, biosecurity, health care, manufacturing and the military.

LIIS VIHUL is CEO of Cyber Law International. She is also Ambassador of the NATO Cooperative Cyber Defence Centre of Excellence, Deputy Chair of the Global Commission on the Stability of Cyberspace's Research Advisory Group and co-managing editor of the Woomera Manual on International Law Applicable to Conflict in Outer Space. Previously, she spent nine years as a senior analyst in the Law and Policy Branch at the NATO Cooperative Cyber Defence Centre of Excellence and was the managing editor of the Tallinn Manual 2.0 on the International Law Applicable to Cyber Operations. She also served as a member of the Estonian delegation at the United Nations Group of Governmental Experts on Information and Telecommunications in the Context of International Security in 2014–2015 and 2016–2017. She holds a master's degree in Law from the University of Tartu and a Master's degree in Information Security from the University of London.