

2021



serene
RISC

Annual workshop

Online Conference

#serene2021

Agenda

Wednesday, October 20, 2021



10:15 AM

Opening words

Benoît Dupont (Université de Montréal)

10:30 AM

Session 1 – Keynote

The State of Cybersecurity: Current Failures and Emerging Solutions

Sasha Romanosky (RAND Corporation) followed with a discussion with Vanessa Henri (Fasken Martineau DuMoulin)

Q&A session

1:00 PM

Session 2 – Interactive Debate

Improving SME cybersecurity

Pascal Fortin (KPMG), Claudiu Popa (Knowledge Flow Foundation), Fiona Westin (SERENE-RISC), Jasmin Guénette (Canadian Federation of Independent Business)

Q&A session

2:45 PM

Session 3 – Interactive Debate

Cybersecurity R&D in Canada

Jennifer Quaid (Canadian Cyber Threat Exchange), Atty Mashatan (Ryerson University), Sinead Tuite (ISED), Michele Mosca (University of Waterloo)

Q&A session

4:15 PM

Closing remarks

Benoît Dupont (Université de Montréal)

About Serene-risc

About the Network

The Smart Cybersecurity Network (Serene-risc) is a knowledge mobilization network funded in 2014 through the Networks of Centres of Excellence Knowledge Mobilization program to improve the general public's awareness of cybersecurity risks and to empower all to reduce those risks through knowledge. Serene-risc's vision is a cybersecurity information exchange that is recognized as an open, inclusive, and unbiased forum to unlock the value of cybersecurity knowledge. Serene-risc brings together more than 50 academics in various disciplines and 50 partners from private and public sectors across Canada.

Administrative Team



Benoît Dupont
Scientific Director



Fyscillia Ream
Co-executive director



Michael Joyce
Co-executive director



Clémence Rampillon
Communications Advisor



Raphaël Hoarau
Digital Media Assistant



Louis Melançon
Research Assistant
Editor for the Serene-risc's Digest



Marie-Pier Villeneuve-Dubuc
Research Assistant
Editor for Konnect



Serene-risc resources

Cybersec101

Introduction to Cybersecurity - Online Training (En-Fr)

<https://www.cybersec101.ca/>



Mooc - La cybersécurité en milieu universitaire

Free online cybersecurity training for the university community (Fr)

<https://catalogue.edulib.org/fr/cours/la-cybersecurite-en-milieu-universitaire/>

Cybersecurity Digest

Cutting Edge Research Summaries for Policy-Makers and Practitioners (En)

<https://www.serene-risc.ca/en/digest>



Blog Konnect

Knowledge-sharing platform on cybersecurity and cybercrime (En-Fr)

<https://konnect.serene-risc.ca/>

Serene-risc website

<https://www.serene-risc.ca/>

Social media



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2021 Serene-risc Annual Workshop

About the Workshop

The 2021 Serene-risc Annual Workshop will take place online, on October 20, 2021. The event will bring together researchers, professionals and decision-makers from industry, government and academia for a conversation on the state of Canadian cybersecurity. This 12th workshop will be the last one, as the network concludes its funding cycle and new national initiatives are ready to launch.

Scientific Committee

- Sonia Chiasson, Carleton University (Chair)
- Benoît Dupont, Université de Montréal (Chair)
- Saeed Abu-Nimeh, Seclytics
- Jean-Ian Boutin, ESET
- Luc Dancause, Sapiens conseils
- José Fernandez, Ecole Polytechnique Montréal
- Richard Frank, Simon Fraser University
- Christian Leuprecht, Royal Military College of Canada
- Helen Tang, Defence R&D Canada



10:30 AM | Session 1 – Keynote

The State of Cybersecurity: Current Failures and Emerging Solutions

Sasha Romanosky (RAND Corporation) followed with a discussion with Vanessa Henri (Fasken Martineau DuMoulin)

After decades of practitioner experience and research, the cyber security field still faces many fundamental problems which, collectively, reduce our ability to measure, communicate and manage cyber risk. In this talk, I will describe some of these failures and challenges that persist within the cyber security industry. However, I will also discuss some of the emerging solutions that attempt to fill these gaps, including cyber insurance, software bill of materials (SBOM), Cyber NTSB, Bureau of Cyber Statistics, cyber insurance, and other data-driven efforts, and I will discuss why I think these may (or may not) succeed.

Biography

Sasha Romanosky (RAND Corporation)

Sasha Romanosky is a Senior Policy Researcher at the RAND Corporation where he researches topics on the economics of security and privacy, national security, and law & economics. He holds a Ph.D. in Public Policy and Management from Carnegie Mellon University and a B.S. in Electrical Engineering from the University of Calgary, Canada. He was a Microsoft research fellow in the Information Law Institute at New York University School of Law, and a security professional for over 10 years. Sasha is one of the original authors of the Common Vulnerability Scoring System (CVSS), an international standard for scoring computer vulnerabilities (ITU-T X.1521), and co-creator of EPSS, an emerging standard for predicting software vulnerability exploitation. Sasha is a former Cyber Policy Advisor in the Office of the Secretary of Defense for Policy (OSDP) at the Pentagon, for which he received the Defense Medal for Exceptional Public Service.

Vanessa Henri (Fasken Martineau DuMoulin)

Vanessa is a lawyer in data governance and emerging technologies. Named one of the 20 most influential women in cybersecurity in 2020 by IT World Canada, Vanessa also teaches crisis management and cybersecurity law at St. Thomas University's Master of Laws in Cybersecurity in Miami, Florida. She is an ISO/IEC 27701:2019 Senior Lead Implementor and Certified Data Protection Officer. Prior to joining Fasken, Vanessa held the role of Director of Compliance and Chief Privacy Officer at a multinational cybersecurity firm. She sits on the Board of Directors of Cyberéco, a non-profit organization in the field of critical infrastructure cybersecurity, and NordOuvret, in the field of smart cities. She is a frequent speaker at international conferences and holds a Master's degree from McGill University on cyber espionage.



1:00 PM | Session 2 - Interactive debate

Improving SME cybersecurity

Pascal Fortin (KPMG), Claudiu Popa (Knowledge Flow Foundation),
Fiona Westin (SERENE-RISC), Jasmin Guénette (Canadian Federation of Independent Business)

The recent wave of ransomware and supply-chain attacks has demonstrated that SMEs remain exposed and vulnerable to sophisticated risks for which they are still under-prepared. What policy and practical measures can be implemented to help them improve their awareness and capacity to protect against these risks?

Biography

Pascal Fortin (KPMG)

Pascal Fortin is a 20 year cyber security industry veteran recognized for challenging conventional thinking. He has successfully built networks of academia, industry and public sector professionals to create effective collaboration channels. An example of this is the Serene-Risc organization, part of Networks of Centers of Excellence of Canada. Before being appointed Partner at KPMG partner, Mr. Fortin has founded, operated and or been on the board of several technology start-ups. He currently sits on the board of 22 000 employee security and investigations firm and advisory committees of several innovative tech startups. Namely, Delve labs (exited with SecureWorks), Flare Systems, F8th and many more. Mr. Fortin had the opportunity to hone his skills leading professional services teams across North America during his tenure at Westcon Group, focusing on Fortune 500 clients. Mr. Fortin has developed a strong ability to make complex technology topics accessible to all audiences. He regularly presents at industry conferences including ISACA, CPA and IIA conferences, GoSec, AtlSecCon, etc.

Claudiu Popa (Knowledge Flow Foundation)

Claudiu helps some of the world's best companies protect their most valuable assets and make intelligent, risk-based decisions. As Informatica's CEO, he manages risk audit and assessment projects for organizations on both sides of the border. He is a professional speaker and a published author. His unique background and influence make him a trusted risk advisor to leaders and a reliable, authoritative source of engaging sound bites for media outlets. Claudiu is an ardent protector of information and supporter of privacy rights recognized by the Office of the Information and Privacy Commissioner as a Privacy by Design Ambassador. His interest in standardizing cybersafety and hack-proofing online communities stems from a personal passion to build resilience back into the Internet, widely disseminate information and create a conduit for high value knowledge transfer. That conduit is the KnowledgeFlow Cybersafety Foundation, a non-profit organization he founded to help Canadian families improve their cybersituational awareness.

Biography

Fiona Westin (SERENE-RISC)

Fiona has a Master Degree in Human-Computer Interaction with a focus on Usable Privacy and Security at Carleton University. She is Project Lead on SERENE-RISC's Knowledge Mobilization on Innovation in Canadian SMEs project, supported by Public Safety Canada. At the workshop, Fiona aims to highlight challenges faced by SMEs in the adoption of current cybersecurity technologies, and opportunities for innovation.

Jasmin Guénette (Canadian Federation of Independent Business)

Mr. Jasmin Guenette is Vice-President of National Affairs with the Canadian Federation of Independent Business since September 2019. His role include advancing federal lobbying priorities, representing CFIB at government and stakeholder meetings as well as in committees, and acting as a spokesperson. Prior to joining the CFIB, he served as Vice President of the Montreal Economic Institute and he also served as Director of Academic Programs at the Institute for Humane Studies at George Mason University. Among other accomplishments, he authored a book and hundreds of articles for various newspapers and websites, served as content producer for short documentaries, served on several boards and was recognized as an Ambassador of the Université du Québec à Montréal for his involvement within the university.



2:45 PM | Session 3 - Interactive debate

Cybersecurity R&D in Canada

Jennifer Quaid (Canadian Cyber Threat Exchange), Atty Mashatan (Ryerson University), Sinead Tuite (ISED), Michele Mosca (University of Waterloo)

To leverage the economic opportunities that cybersecurity offers Canada and keep up with the constant innovation deployed by malicious attackers, much closer collaboratives ties must be developed and sustained between academic researchers, industry, and government stakeholders. What has been achieved to date in Canada, what has held us back, and what gaps need to be filled?

Biography

Jennifer Quaid (Canadian Cyber Threat Exchange)

Jennifer is the Executive Director of the Canadian Cyber Threat Exchange (CCTX), Canada's preeminent private sector organization for cross-sector collaboration, enabling cyber resilience and preparedness in its members. She is responsible for advancing the mission and purpose of the CCTX and delivering value to the membership. With extensive experience in the tech sector and with membership-based organizations, Jennifer excels at creating an environment that fosters customer focus and service delivery. Most recently, Jennifer was the Chief Operating Officer at the CCTX where she oversaw the development and maturity of collaboration opportunities for member companies, defining and enhancing the value for members. Prior to that, Jennifer served as the Director of People, Resources and Operations for Gryphon Secure, a global company that provides enterprise level security in a mobile environment. Jennifer has worked extensively in Canada, the United Kingdom, and Japan, and holds a Bachelor of Arts Degree in Political Studies from Queen's University in Kingston, ON.

Atty Mashatan (Ryerson University)

Dr. Atty Mashatan is an Associate Professor at Ted Rogers School of Information Technology Management. She is a Canada Research Chair (Tier II) in Quality of Security Framework for the Internet of Things. Her research is focused on the development of novel cybersecurity designs based on emerging technologies such as IoT, Blockchain, and Quantum Computing. Dr. Mashatan's expertise at the frontlines of the global cybersecurity field was recognized by SC Magazine in 2019, when she was named one of the top five Women of Influence in Security. She was recognized as one of Canada's Top 19 of 2019 Tech Titans at IBM CASCON Evoke conference. In 2020, she received the Enterprise Blockchain Award in the category of New Frontiers in Blockchain Academic Research by Blockchain Research Institute. Most recently, she received the recognition of Top 20 Women in Cybersecurity in Canada for her efforts in advancing cybersecurity research.

Biography

Sinead Tuite (Innovation, Science and Economic Development Canada - ISED)

Sinead Tuite is a Senior Director in the Science Research Sector at Innovation, Science and Economic Development responsible for the development and implementation of the Digital Research Infrastructure Strategy, cybersecurity innovation in the post-secondary sector, and research security. Sinead was previously responsible for developing the Government of Canada's Accessible Canada Act. She also worked in various roles at the Privy Council Office and Health Canada, including an assignment at the World Health Organization. She has an undergraduate degree from Queen's University, Canada and a Master's degree in Social Policy from the London School of Economics.

Michele Mosca (University of Waterloo)

Michele Mosca is co-founder of the Institute for Quantum Computing at the University of Waterloo, a Professor in the Department of Combinatorics & Optimization of the Faculty of Mathematics, and a founding member of Waterloo's Perimeter Institute for Theoretical Physics. He is co-founder and CEO of the quantum-safe cybersecurity company, evolutionQ, and co-founder of the quantum software and applications company, softwareQ. He serves as co-chair of the board of Quantum Industry Canada. He started working in cryptography during his undergraduate studies and obtained his doctorate in Mathematics in 1999 from the University of Oxford on the topic of Quantum Computer Algorithms. His research interests include algorithms and software for quantum computers, and cryptographic tools designed to be safe against quantum technologies. He co-founded the not-for-profit Quantum-Safe Canada, and the ETSI-IQC workshop series in quantum-safe cryptography and is globally recognized for his drive to help academia, industry and government prepare our cyber systems to be safe in an era with quantum computers. Dr. Mosca's awards and honours include 2010 Canada's Top 40 Under 40, Queen Elizabeth II Diamond Jubilee Medal (2013), SJU Fr. Norm Choate Lifetime Achievement Award (2017), and a Knighthood (Cavaliere) in the Order of Merit of the Italian Republic (2018).

#Serene2021

We will be sharing all information about the 2021 Serene-risc Annual Workshop on our social media :



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Communicate and share posts on social media using a #Serene2021 hashtag!
By using this hashtag and tagging us on social media, we will be able to share your content.