CyberCon Brno 2021

International Day

September 22

Brno, Scala Cinema

Panel 1: EU Panel (NIS 2); *virtual panel*

Moderator

Adam Botek (NÚKIB)

Panelists

Benjamin Boegel (European Commission)

Amelie Perron (ANSSI)

Alisha Muller (European Parliament)

Panel 2: Cyber Law Toolkit

Introduction

Václav Borovička (NÚKIB)

Moderator

Tomáš Minárik (NÚKIB)

Panelists

Kubo Mačák (ICRC); *joining virtually*

Dr Kubo Mačák is a Legal Adviser in the ICRC's Legal Division, assigned jointly to the Armsand Conduct of Hostilities Unit and the Commentaries Unit. Prior to joining the ICRC in October 2019, he worked as an Associate Professor at the University of Exeter in the UK. In that position, Kubo taught and researched in the areas of public international law, international humanitarian law, and international cyber law. He is the author of the book Internationalized Armed Conflicts in International Law (OUP 2018) and of multiple articles in peer-reviewed journals including the International Review of the Red Cross, the Journal of Conflict and Security Law, and the Cambridge International Law Journal. Kubo is also the General Editor of the Cyber Law Toolkit, an interactive online resource on the international law of cyber operations. He holds a doctorate in international law from the University of Oxford (Somerville College), an undergraduate degree in law from Charles

University in Prague, and the Diploma of the Hague Academy of International Law.

Taťána Jančárková (NATO CCD COE)

Taťána Jančárková is a researcher at the Law Branch of NATO CCDCOE in Tallinn, Estonia. Her current research interests include application of international law to cyberspace operations (Interactive Cyber Law Toolkit project), protection of critical information infrastructure and regulatory aspects of 5G technologies. She has previously served as legal adviser and led the International Organisations and Law Unit at the National Cyber and Information Security Agency of the Czech Republic.

In her pre-cyber life, she defended Czechia before the European Court of Human Rights, helped ensure fair trial to the accused at the International Criminal Tribunal for the former Yugoslavia or managed EU projects in Kosovo.

Ms Jančárková holds master's degrees in law and in Russian and East European studies from Charles University in Prague and an LL.M. in public international law from Leiden University.

Panel 3: Quantum computing panel

Moderator

Jan Bouda

Jan Bouda is the head of the research group of quantum information processing (qicz.fi.muni.cz) at the Faculty of Informatics of Masaryk University. He deals mainly with quantum information processing, randomness, cryptography and security. In 2006, he participated in the development of an absolutely reliable European quantum network (EU FP6 SECOQC project). He was the coordinator of the EU FP7 FET-Open project "Randomness and Quantum Entanglement" (RAQUEL, consortium of Masaryk University, Universitat Autonoma de Barcelona, University of Vienna, University of Gdansk, University of Riga, ETH Zurich and Freie Universitat Berlin). He is currently the EU Horizon 2020 Quanter II (ERA-net) coordinator of the "Experimentally-Oriented Device Independent Cryptography" project (eDICT, Masaryk University Consortium, University of Gdansk, Hungarian Academy of Sciences (ATOMKI), ETH Zurich and Austrian Academy of Sciences). He is a representative (sherpa) of the Czech Republic in the European Quantum

Communication Infrastructure (EuroQCI), and a representative in the EuroQCI Security Committee. He is the coordinator of the construction of the Czech National Quantum Infrastructure, which is part of EuroQCI.

Panelists

Rupert Ursin

Rupert Ursin is a group leader and senior scientist at the IQOQI. His main field of research is to develop quantum communication and quantum information processing technologies, mainly for free-space, but also for fibre-based systems. The scope of his work ranges from near term engineering solutions for secure key sharing (quantum cryptography) to more speculative research (de-coherence of entangled states in gravitational fields). Experiments on quantum communication and teleportation using entangled photon pairs is also among his interests, with the long-term goal of a future global quantum network based on quantum repeaters. He has been experimentally active in numerous international collaborations in Germany, Italy, Spain, USA as well as in China and Japan. Lead several ESA funded projects as well as on the national and EU level.

Mário Ziman

Mário Ziman studied theoretical physics at Comenius University in Bratislava. He completed his doctoral studies at the Institute of Physics of the Slovak Academy of Sciences. He deals with the study of mathematical properties of quantum structures, the use of quantum phenomena in information and communication applications (programmable processors, multi-user communication protocols) and optimization of quantum processes and measurements. He is currently the coordinator of Slovak platform for quantum technologies QUTE.sk and the Director of the Institute of Physics of the Slovak Academy of Sciences, where he works at the Center for Quantum Information Research.

Igor Jex

Igor Jex works at the FNSPE CTU in Prague. He is interested in a wide range of problems in quantum physics, quantum information and statistical physics. He is a co-author of a number of important works on quantum walks and optical networks (for example, the first experimental demonstration of a two-dimensional quantum walk). Together with colleagues, he proposed a scheme of Gaussian boson sampling, which was used by a Chinese experimental group to demonstrate quantum domination. He also lectures on the history of physics and is a fan of Star Trek.

Panel 4: Protecting the Healthcare Sector from Cyber Harm*

* This panel will be streamed online

Since the start of the pandemic we have seen a worrying rise in cyberattacks directed against critical infrastructure, most notably in the healthcare sector. Such reckless attacks threaten delivery of essential public services and risk potentially devastating humanitarian consequences. To tackle this growing global threat, the Czech Republic, the CyberPeace Institute, and Microsoft are co-championing a multi-stakeholder project to protect the healthcare sector from cyber harm. This project builds upon recent successful efforts at the United Nations spearheaded by the Czech Republic to designate healthcare sector as critical infrastructure. Through a series of workshops between September 2021 and May 2022 the project will bring together experts and practitioners from governments, international organizations, industry and civil society to identify best practices and lessons learned. The key goal is to engage the broader multi-stakeholder community, mobilize political will, and identify concrete steps that may be taken at all levels to build capacity and increase cyber-resilience of the healthcare sector globally. Recommendations and good practices will be then distilled into a multi-stakeholder Compendium, to be released in the first half of 2022.

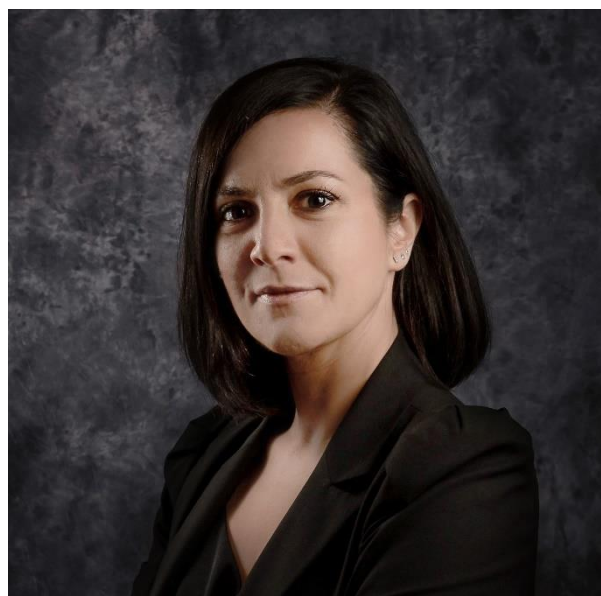The project will officially launch during the international day of CyberCon Brno.

Moderator

Richard Kadlčák (MFA)

Panelists

Klara Jordan

Klara Jordan is the the Chief Public Policy Officer at the Cyber Peace Institute based in Geneva, Switzerland. At the institute she leads the Advancement team with the mission to promote responsible behavior in cyberspace. Prior to joining CPI, Klara was the Director for Government Affairs and Public Policy for the UK at BlackBerry and the Executive Director for the EU and Africa at the Global Cyber Alliance. Previously,

she served as the director of the Cyber Statecraft Initiative. Klara also spent two years at the Atlantic Council, where she supported the programming on cybersecurity, focusing on cybercrime, cyberespionage, and cyberwarfare, and led the programming on NATO and EU cybersecurity issues. Her background also includes work on international law issues at the American Society of International Law and at NATO's Allied Command Transformation.

Petr Novotný (NÚKIB)

Petr Novotny is a director of Cyber Security Policies Department at National Cyber and Information Security Agency. Responsibilities of the department range from national policies, activities in international organizations to exercises and strategic analytics. He also has extensive experience with preparation and organization of various types of cyber security exercises on national as well as international level. He holds his master's degree in Security and Strategic Studies from the Masaryk University in Brno.

Katerina Anna Magnna

Katerina Anna Magnna is senior executive professional with extensive experience in international law, ICT law, business, and trade diplomacy. She is Government Affairs Manager at Microsoft, where she is in charge of the Czech Republic, Slovakia and Hungary. Her agenda includes analysing public policy on EU and national level; working on key topics of digital transformation as Cybersecurity, Digital Sovereignty or Artificial Intelligence; building government relations and strengthening the public-private partnership.

She holds Ph.D. in Law from Masaryk University, Executive MBA Degree, Diploma from Diplomacy, LLM in ICT Law and Master of Law and Economics from Switzerland. She holds certificates from Executive Programs on Negotiations from Harvard Law School, University of Oxford or INSEAD and from Distinguished Humphrey Fellowship Program in Media and Information from University of Washington, USA.

Master of ceremony: Karolína Menšíková (NÚKIB)