



College of Europe
Collège d'Europe



Natolin



ICRC

NEW TECHNOLOGIES ON THE BATTLEFIELD: FRIEND OR FOE?

21st Bruges Colloquium, 12-16 October 2020

SPEAKERS' BIOGRAPHIES *CURRICULUM VITAE DES ORATEURS*

Day 1: Monday, 12 October

Welcome Addresses

Allocutions de bienvenue

Mrs Federica Mogherini is the Rector of the College of Europe since September 2020. She co-chairs the United Nations High Level Panel on Internal Displacement since January 2020. From 2014 to 2019, she has served as the High Representative of the European Union for Foreign Affairs and Security Policy and Vice-President of the European Commission. Prior to joining the EU, she was the Italian Minister for Foreign Affairs and International Cooperation (2014), and a Member of the Italian Chamber of Deputies (2008-14). In her parliamentary capacity, she was Head of the Italian Delegation to the NATO Parliamentary Assembly and Vice-President of its Political Committee (2013-14); member of the Italian Delegation to the Parliamentary Assembly of the Council of Europe (2008-13); Secretary of the Defence Committee (2008-13); and member of the Foreign Affairs Committee. She also coordinated the Inter-Parliamentary Group for Development Cooperation. Federica Mogherini is a Fellow of the Harvard Kennedy School. She is also a member of the Board of Trustees of the International Crisis Group, Fellow of the German Marshall Fund, member of the Group of Eminent Persons of the Preparatory Commission for the Comprehensive Nuclear Test Ban Treaty Organization, member of the European Leadership Network for Multilateral Nuclear Disarmament and Non-Proliferation, and member of the Board of Directors of the Italian Institute for Foreign Affairs (IAI). She has a degree in Political Science from the University of Rome "La Sapienza". She was born in Rome in 1973, lives in Belgium and has two daughters.

Dr Gilles Carbonnier is the vice-president of the International Committee of the Red Cross (ICRC) (appointed in 2018). Since 2007, Dr. Carbonnier has been a professor of development economics at the Graduate Institute of International and Development Studies (Geneva), where he also served as director of studies and president of the Centre for Education and Research in Humanitarian Action. His expertise is in international cooperation, the economic dynamics of armed conflict, and the nexus between natural resources and development. His latest book, published by Hurst and Oxford University Press in 2016, is entitled *Humanitarian Economics: War, Disaster and the Global Aid Market*. Prior to joining the Graduate Institute, Dr. Carbonnier worked with the ICRC in Iraq, Ethiopia, El Salvador and Sri Lanka (1989-1991), and served as an economic adviser at the ICRC's headquarters (1999-2006). Between 1992 and 1996, he was in charge of international trade negotiations (GATT/WTO) and development cooperation programmes for the Swiss State Secretariat for Economic Affairs.

Session One: Cyber operations during armed conflict

Première Session : Les cyber-opérations en temps de conflit armé

Dr Knut Dörmann is Head of Delegation of the ICRC Brussels delegation to the EU, NATO and the Kingdom of Belgium since June 2020. Previously he was ICRC's Head of the Legal Division and Chief Legal Officer (December 2007 - May 2020), Deputy Head of the Legal Division (June 2004 - November 2007) and Legal Adviser at the Legal Division (December 1998 - May 2004) (in charge of among others the law applicable to the conduct of hostility, cyber warfare, the protection of the environment, international criminal law). He holds a Doctor of Laws (Dr. jur.) from the University of Bochum in Germany (2001). Prior to joining the ICRC, he was Managing Editor of *Humanitäres Völkerrecht - Informationsschriften* (1991-1997), Research Assistant (1988-1993) and Research Associate (1993-1997) at the Institute for International Law of Peace and Armed Conflict, University of Bochum. Dr. Dörmann has been a member of several groups of experts working on the current challenges of international humanitarian law. He has extensively presented and published on international humanitarian law, international law of peace and international criminal law. He received the 2005 Certificate of Merit of the American Society of International Law for his book 'Elements of War Crimes under the Rome Statute of the International Criminal Court', published by Cambridge University Press.

Prof. Vera Rusinova is a Professor of International law at the Faculty of Law of the National Research University Higher School of Economics in Moscow (Russia), where she heads the School of International Law. The main fields of her research activities comprise International Human Rights Law, International Humanitarian Law, use of force, the theory of International Law, and application of International Law to cyber operations. Vera Rusinova has published more than 75 scientific articles, book chapters, and papers on International Law. Her last monograph is titled 'Human Rights in Armed Conflicts: Problems of Relationship between Norms of International Humanitarian Law and International Human Rights Law' (Moscow, 2017). She is a Co-Chair of the International Law Association's Committee on Use of Force: Military Assistance on Request. She is also a member of the Editorial Groups of 'International Justice' and the 'Journal of International Humanitarian Legal Studies', and a member of the Editorial Board of the 'International Cybersecurity Law Review'. In 2020 Vera Rusinova leads the Research and Study Group working on the project 'Reshaping Public International Law in the Age of Cyber: Values, Norms, and Actors'.

Prof. Hongsheng Sheng is Professor of Public International Law at Shanghai University of Political Sciences and Law, China, Ph.D supervisor at Guanghua Law School of Zhejiang University, China. He was British Chevening Scholar (2000) and awarded LL.M (International Criminal Justice and Armed Conflict) at the University of Nottingham, UK in 2001, and Ph.D (Public International Law) at Wuhan University, China in 1996. From April 2004 to April 2005, he was United Nations Expert on Mission for the MONUC in the Democratic Republic of the Congo, serving as a Team Leader of Military Observers, and as a Senior Liaison Officer. He was also appointed by the Chief of the Mission Chair of Independent Board of Enquiry to review international criminal cases. In April 2005, he was granted a United Nations Medal (In the Service of Peace). In June 2011, he was granted the title "Qianjiang Professorship" by People's Government of Zhejiang Province, China. He is Chief Expert for the joint international programme "UK-China Collaboration for Conflict Prevention". Up till now, he has published six titles including 'Challenges and Responses in International Criminal Law' (2017), 'Legal Aspects of Armed Conflict in Early 21st Century' (co-author, 2014), 'State Responsibility under International Law in Anti-Terrorism Campaign' (2008), 'United Nations Peacekeeping Operations: Legal Aspects' (2006), and over eighty articles in leading academic journals at home and abroad. His academic interests focus on international law, international relations, international organization, international humanitarian law and international criminal justice as well.

Prof. Duncan Hollis is Laura H. Carnell Professor of Law at Temple University Law School in Philadelphia. He is editor of the award-winning Oxford Guide to Treaties (2012, 2nd ed., 2020) & (with Allen Weiner) International Law (2018). Professor Hollis has authored a series of articles on securing cyberspace, including (with Martha Finnemore) "Constructing Norms for Global Cybersecurity," in the

American Journal of International Law, and the forthcoming European Journal of International Law article, "Beyond Naming & Shaming: Accusations and International Law in Cyberspace". Professor Hollis is a Non-Resident Scholar at the Carnegie Endowment for International Peace and an elected member of the American Law Institute. In 2016, Professor Hollis was elected by the General Assembly of the Organization of the American States to a four-year term on the OAS's Inter-American Juridical Committee. There, he serves as a Rapporteur for a project on improving the transparency of how States understand international law applies in cyberspace.

Day 2: Tuesday, 13 October

Session Two: The use of Autonomous Weapon Systems: a challenge to the international rule of law?

Deuxième Session : L'utilisation des systèmes d'armes autonomes : un défi à l'ordre juridique international ?

Ms Maya Brehm is a legal advisor in the Arms and Conduct of Hostilities Unit (Legal Division) of the ICRC. Her present work focuses on IHL questions raised by developments in the technologies of warfare, notably, increasing autonomy in weapons systems, and on the promotion of responsible arms transfers. Before joining the ICRC, Maya worked as a researcher, lecturer and policy adviser for academic institutions, civil society organizations and UN bodies in the fields of humanitarian disarmament and human rights. Maya holds a MA in international relations and an LLM in international humanitarian law.

Colonel Rudolf Stamminger joined the French Air Force in 1996. As a legal advisor and specialist in the law of armed conflict, he has participated in numerous external operations (mainly in former Yugoslavia and Africa). He was assigned as Operation Legal Advisor to the NATO Joint Force Command Staff in Naples and as Legal Advisor for the Law of Operations to NATO's Allied Command Transformation (ACT) in the US. He was also the legal advisor to the Air Defense and Air Operations Command (CDAOA) in Paris where he dealt with the legal aspects of air operations conducted worldwide by the Air Force. Colonel Stamminger is also the director of the Advanced Course on the Law of Armed Conflict at the International Institute of Humanitarian Law in San Remo and teaches this subject at the University of Paris-Nanterre. Since the summer of 2019, he has been the head of the Office of the Law of Armed Conflict within the Directorate of Legal Affairs of the French Ministry of the Armed Forces, where he is in charge of the EWIPA and SALA files. He is also a Knight of the National Order of Merit.

Dr Thompson Chengeta is a European Research Council Fellow on Drone Violence and AI Ethics at the University of Southampton where he undertakes research and project-related leadership on autonomous weapon systems (AWS). His PhD thesis (University of Pretoria) was on international law and ethics relevant to the governance of AWS while his LLM thesis (Harvard Law School) was on elements that define human control over AWS. He has widely published on international law and AWS and participated in the research and writing of the 2013 Report on Lethal Autonomous weapon systems that was submitted to the UN Human Rights Council by the then UN Special Rapporteur on extrajudicial executions, Professor Christof Heyns. Thompson is an executive board member of the Foundation for Responsible Robotics and serves as a legal expert member of the International Panel on the Regulation of AWS and the International Committee for Robot Arms Control. He's also the African Region Lead for the Campaign to Stop Killer robots. Thompson is the Director and Founder of the Chengeta Diversity and Inclusion Consultancy (CDIC) and he is also a Founding Member of the Campaign to Stop Killer Robots' Working Group on Intersectionality (WGI).

Ms Netta Goussac is an Associate Senior Researcher within Stockholm International Peace Research Institute (SIPRI)'s Armament and Disarmament areas, and a Special Counsel with Lexbridge. Netta has worked as an international lawyer for over a decade, including for the ICRC and the Australian Government's Office of International Law, and as a lecturer at the Australian National University. Netta has expertise in legal frameworks related to the development, acquisition and transfer of weapons. Netta has provided legal and policy advice related to new technologies of warfare, including autonomous weapons, military applications of artificial intelligence and cyber and space security. Since 2017, Netta has participated in the UN's Group of Governmental Experts on lethal autonomous weapon systems. She is one of the co-authors of the 2020 report *Limits on Autonomy in Weapon Systems: Identifying practical elements of human control*.

Day 3: Wednesday, 14 October

Session Three: Artificial Intelligence and machine learning

Troisième Session : Intelligence artificielle et apprentissage automatique

Dr Neil Davison is a senior adviser in the Arms and Conduct of Hostilities Unit within the Department of International Law and Policy at the ICRC's headquarters in Geneva. He represents the organisation on a range of weapons and disarmament issues, with a current focus on new technologies of warfare including autonomous weapons and AI. Prior to joining the ICRC in 2011, Neil led initiatives on international security and diplomacy at the Royal Society (UK national academy of science) and carried out research on arms control at the University of Bradford. A biologist by initial training, he holds a PhD in Peace Studies.

Mr Edward Hunter Christie is Deputy Head of the Innovation Unit at NATO Headquarters. He is an experienced public policy professional, with 20 years of work experience, he has held a succession of roles in research, industry, EU affairs, and NATO. His current work focuses on the development of NATO policies regarding Emerging and Disruptive Technologies. He is the author of NATO's White Paper on Artificial Intelligence.

Dr Dustin Lewis is the Research Director of the Harvard Law School Program on International Law and Armed Conflict (HLS PILAC). With a focus on public international law sources and methodologies, Mr. Lewis leads research into several wide-ranging contemporary challenges concerning armed conflict. Among his current areas of focus, Mr. Lewis heads the research for the project on "International Legal and Policy Dimensions of War Algorithms: Enduring and Emerging Concerns."

Ms Pauline Warnotte is researcher at the Security and Technology Programme of the United Nations Institute for Disarmament Research (UNIDIR) in Geneva (Switzerland) and a teaching assistant at the Law Faculty of the University of Namur (Belgium). Her areas of research and expertise include the law of armed conflict, the various aspects of weapons law, the legal review of new weapons, as well as the use of artificial intelligence and new technologies in the military domain. She is regularly invited as a speaker by academic institutions, civil society organizations and UN bodies in the fields of IHL and weapons law, and recently co-authored a book on "Robotisation des armées: enjeux militaires, éthiques et légaux" (ISBN: 9782717870954). Pauline studied Law at the University of Liège, Belgium (2008) and holds a LL.M. in Human Rights from St Louis University, Brussels, Belgium (2011). Her previous experiences include the IHL Unit of the Belgian Ministry of Justice (2011-2013), the International and Humanitarian Law Unit of the Belgian Ministry of Defence (2014-2019) and the Chair of Law of the Royal Military Academy (2019-2020). As part of her military duties, Pauline has been deployed in Qatar (2017) and Mali (EUTM Mali, 2017 and MINUSMA, 2018).

Day 4: Thursday, 15 October

Session Four: Military space operations: constraints under international law and potential humanitarian consequences

Quatrième session : Les opérations militaires dans l'espace extra-atmosphérique en droit international et leurs potentielles conséquences humanitaires

Dr Heather A. Harrison Dinniss is a Senior Lecturer at the Centre for International and Operational Law at the Swedish Defence University. Heather's research focuses on the impact of modern warfare on international humanitarian law; on emerging military technologies such as cyber warfare, advanced and autonomous weapons systems and the legal aspects of human enhancement techniques on members of the armed forces. She is the author of 'Cyber War and Laws of War' (Cambridge University Press, 2012) which analyses the status and use of cyber operations in international law and the law of armed conflict. Heather has served as a member of advisory groups to the Swedish Government on autonomous weapons systems and cyber operations, a member of the International Law Association's Study Group on Cyber Terrorism and International Law (2014-2016) and as a core expert for two projects to establish Manuals on International Law Applicable to Military Uses of Outer Space (MILAMOS (2016-18) & Woomera (2018-)).

Dr Wen Zhou is Legal Adviser of the Arms and Conduct of Hostilities Unit of the Legal Division at the ICRC Headquarters in Geneva, Switzerland. Wen's functions include, among others, coordinating, developing and representing the ICRC's legal and policy positions on a range of weapons issues, notably legal reviews of new weapons, weaponization in outer space, and conventional weapons (e.g. landmines and cluster munitions). Prior to working at the ICRC headquarters in 2018, Wen was Head of Legal Department at the ICRC Regional Delegation for East Asia based in Beijing, where she worked in particular on the promotion and implementation of international humanitarian law in China, Republic of Korea, DPRK and Mongolia. Prior to joining the ICRC in 2013, Wen worked as Associate Legal Counsel in the World Bank Group (Washington D.C.) and Assistant Professor of Law in the Chinese Academy of Social Sciences (Beijing). Wen holds a Ph.D. in International Law and a Bachelor of Law from Peking University (China), and a Master of European Law from University of Paris I Panthéon-Sorbonne (France). She also studied at The Hague Academy of International Law and the Raoul Wallenberg Institute of Human Rights and Humanitarian Law of Lund University (Sweden).

Major Mickaël Dupenloup currently holds the position of Deputy Head of the Office of the Law of Armed Conflict within the Legal Affairs Directorate of the French Ministry of the Armed Forces. He has previously served as legal adviser in the Air Force and the joint environment. In this role, he specialized in the fields of targeting, air operations, ballistic missile defence and space capabilities. He was successively deployed in Afghanistan, Germany, Italy, Chad, Qatar and Kuwait where he served as an operational legal advisor in support of air operations conducted by the French armies. In parallel to his professional activity, he carries out teaching and research work within the academic world. He holds a Master I in public law, a Master II in space and telecommunications law, as well as a Master I and II in legal advice to commanders.

Dr Jessica West is a Senior Researcher at the Canadian peace research institute 'Project Ploughshares' and Managing Editor of the international Space Security Index project. Her research and policy work are focused on technology, security, and governance. She is currently developing a map of the existing normative landscape that shapes outer space activities. Jessica interacts regularly with key United Nations bodies tasked with space security and space safety issues. Jessica holds a PhD in global governance and international security from the Balsillie School of International Affairs (Ontario, Canada).

Day 5: Friday, 16 October

Session Five: New technologies and humanitarian action

Cinquième session : Nouvelles technologies et action humanitaire

Mr Massimo Marelli is the Head of Data Protection Office at the ICRC. Massimo is a member of the Brussels Privacy Hub Advisory Board, and is the co-editor of the Brussels Privacy Hub/ICRC Handbook on Data Protection in Humanitarian Action. He is also a member of the Advisory Board and a Fellow of the European Centre on Privacy and Cybersecurity at the University of Maastricht. Before taking on this role at the ICRC headquarters in Geneva, Massimo worked as an ICRC Delegate in the field and as legal adviser at ICRC headquarters. Prior to joining the ICRC, Massimo worked as lawyer at the UK Office of Fair Trading, as a Referendary at the EU General Court and as lawyer in private practice.

Mr Edgardo Yu has served as the Chief of Beneficiary Services within the Technology Division of the United Nations World Food Programme since 2014. Responsible for transforming WFP's digital approach to beneficiary management and providing food assistance, his team leverages responsible data, digital and financial inclusion tools to help reduce hunger, while enhancing food security, nutrition and sustainable agriculture. Edgardo's 30 years of experience includes serving in WFP as Chief of IT Policy, Architecture and Strategy, Manager for Infrastructure Development and Head of Information Security, and has held various roles working towards systems coherence in United Nations technology fora. Prior to joining the UN, Edgardo was pioneered several Internet service start-ups in the Philippines. He holds degrees in Physics and Computer Engineering from Ateneo de Manila University, and has been a Fellow for Digital Vision in Stanford University.

Prof. Carmela Troncoso is an assistant professor at EPFL (Switzerland) where she heads the SPRING Lab. Her research focuses on security and privacy. Carmela holds a Master degree in Telecommunication Engineering from the University of Vigo (2006) and a PhD in Engineering from the KU Leuven in 2011. Before arriving at EPFL, she was a faculty member at the IMDEA Software Institute in Spain for two years; the Security and Privacy Technical Lead at Gradient, working closely with industry to deliver secure and privacy-friendly solutions to the market for four years; and a postdoctoral researcher at the COSIC Group. Her work on Privacy Engineering received the CNIL-INRIA Privacy Protection Award in 2017, and recently she has led the DP3T effort towards privacy-preserving digital contact tracing which is implemented by many countries.

Prof. Wojciech Wiewiórowski is the European Data Protection Assistant Supervisor (EDPS) since December 2019. Next to this, he is adjunct-professor at the Faculty of Law and Administration of the University of Gdańsk. Before his appointment, he served as the Assistant European Data Protection Supervisor (2014 to 2019) and as Inspector General for the Protection of Personal Data at the Polish Data Protection Authority (2010-2014). He was also Vice Chair of the Working Party Article 29 Group in 2014. His areas of scientific activity include Polish and European IT law, processing and security of information, legal information retrieval systems, informatisation of public administration, and application of new IT tools (semantic web, legal ontologies, cloud, blockchain) in legal information processing.

Ms Alexandrine Pirlot de Corbion is Directory of Strategy at Privacy International (PI). She manages and oversees the delivery of PI's strategic portfolio aimed at ensuring that innovative solutions serve both individuals as civil society while protecting their dignity rather than protecting state power and corporate interest. Also, she has been leading PI's work with the development and humanitarian sector. In 2018, she co-authored a report published by the ICRC and PI which explored the risks associated with the use of data and new technologies in the humanitarian sector, called 'The Humanitarian Metadata Problem: "Doing No Harm" in the Digital Era'. She also served as a member

of the Advisory Group for the second edition of the “Handbook on Data Protection in Humanitarian Action”. Previously, she was engaged in research and advocacy on issues relating to human rights, irregular migration, Security Sector Reform, gender, conflict management, and human security. Alexandrine graduated from the University of Birmingham with an MSc in Conflict, Security and Development following an LLM in International Law at the University of Westminster following an BA in Law with International Relations from Oxford Brookes University.

Ms Catherine Kayser obtained an LL.M. in Public international law from Leiden University in 2015. After spending a year with the United Nation World Health Organisation (UNWHO) in Ethiopia to work on gender equality in relation to health, she decided to pursue her profound interest in International Humanitarian Law and protection issues by entering the Luxembourg Ministry of Foreign and European Affairs as a legal advisor before joining the humanitarian action team, where she helps support and promote Luxembourg’s and its humanitarian partners’ efforts to leverage the potential of new technologies while making sure that beneficiaries stay at the center of each intervention.
