



International Seminar on The Security Implications of Emerging Climate Altering Technologies

Royal Military Academy
Brussels, 23 October 2019

Moderators & Speakers

Dr Jason Blackstock, *Associate Professor, Department of Science, Technology, Engineering and Public Policy (STeAPP), Faculty of Engineering Science, University College of London*



With a unique background spanning research physics, Silicon Valley technology development, public policy, and global governance, Jason Blackstock is an internationally respected scholar, educator and policy adviser on the interface between science and public decision-making. Jason joined University College London in 2013 to help establish its globally unique Department of Science, Technology, Engineering and Public Policy (UCL STeAPP). Prior to joining UCL, Jason taught and directed policy-engaged research at leading universities and think tanks, including Harvard, Oxford, the Centre for International Governance Innovation (Canada), and the International Institute for Applied Systems Analysis (Austria).

For the past seven years, Jason's scholarly and policy work has focused on the complex interactions between the scientific, political and global governance dimensions of our planetary climate and energy challenges. He has co-authored 10 patents and over 40 publications; given dozens of invited policy briefings and academic presentations across six continents; organised numerous international academic and policy conferences; and participated in or led five policy-oriented international science assessments. In 2010 Jason was elected an Associate Fellow of the World Academy of Art and Science.

Jason obtained his BA in English Literature (Queen's, 2000) and his Masters and PhD in physics (Edinburgh, 2001; Alberta, 2005), followed by a Graduate Certificate in International Security (Stanford, 2006) and Master of Public Administration (Harvard, 2008). From 2003 to 2007, Jason worked as a Research Associate of Hewlett Packard Lab's Quantum Science Research Group.

In addition to his UCL position, Jason is an Adjunct Associate Professor of the School of Environment, Enterprise and Development (SEED) at the University of Waterloo. In 2010 Jason was elected an Associate Fellow of the World Academy of Art and Science.



Tsvetelina Filipova, *Senior Policy Analyst, Climate and Environmental Governance Programme, Institute for European Environmental Policy*



Tsvetelina Filipova joined IEEP in March 2018 as a Senior Policy Analyst for the Climate and Environmental Governance Programme. Previously, she was the Head of the Environmental Governance Unit of the Regional Environmental Center (REC, Hungary). At the REC she was the environmental law and governance senior expert and an international project manager (2002-2017). She has also served as a seconded legal expert at the Energy Community Secretariat in Vienna, reviewing the legislative measures adopted by the parties transposing the EC environmental acquis within the scope of the Energy Community Treaty.

She has 17 years of international professional experience.

Tsvetelina has deep experience in undertaking detailed legal analysis and reviews. She has compiled and co-authored a number of handbooks and other publications including: the Handbook on the Implementation of EC Environmental Legislation, (December 2008) and the Handbook on Access to Justice under the Aarhus Convention (March 2003). She has an MSc degree in Environmental Sciences and policy and LLM in Law and international relations. She is a certified mediator in 'Alternative dispute resolution and mediation' and an experienced facilitator of international meetings. At IEEP she has led or been involved in a variety of projects focusing on environmental governance and implementation of SDGs.

Prof François Gemenne, *FNRS Senior Research Associate, University of Liège*



A specialist of environmental geopolitics and migration dynamics, François Gemenne is a FNRS senior research associate at the University of Liège. He also lectures on environmental and migration policies in various universities, including Sciences Po in Paris and the Free University of Brussels. His research deals mostly with environmental and migration governance.

He has worked in particular with populations displaced by environmental changes, including natural disasters, and the policies of adaptation to climate change. He has conducted field studies in New Orleans after hurricane Katrina, Tuvalu, China, Kyrgyzstan, the Maldives, Mauritius and Japan, after the Fukushima disaster.

He has been involved in a large number of international research projects on these issues, including EACH-FOR, HELIX and MECLEP, for which he is the global research coordinator. He also coordinated the DEVAST project, one of the first international projects to examine the social and political consequences of the Fukushima disaster.

In 2015, he was recipient of a Fulbright scholarship to pursue research at Princeton University. In 2010, he was awarded the ISDT-Wernaers Prize for achievement in the communication of science to the general public, and he is also the director of the Sustainable Development series at Presses de Sciences Po, a leading French academic publisher.

He holds a joint doctorate in political science from Sciences Po Paris and the University of Liège. He also holds a Master in Development, Environment and Societies from the University of Louvain, as well as a Master of Research in Political Science from the London School of Economics. In 2008, he was awarded a post-doctoral scholarship from the AXA Research Fund.

He has published in various journals, including Science and Global Environmental Change, and has authored six books, amongst which 'Géopolitique du Climat' (Armand Colin, 2009 & 2015) as well 'The Anthropocene and the Global Environmental Crisis' (edited with C. Hamilton and C. Bonneuil,

Routledge 2015) and an Atlas of Environmental Migration with D. Ionesco et D. Mokhnacheva (Presses de Sciences Po 2016 and Routledge 2016).

Dr Harris Gleckman, *Senior Fellow, Center for Governance and Sustainability, University of Massachusetts Boston / Director, Benchmark Environmental Consulting*



Harris Gleckman is a senior fellow at the Center for Governance and Sustainability at the University of Massachusetts Boston and Director of Benchmark Environmental Consulting. Gleckman has a PhD in Sociology from Brandeis University.

He was a staff member of the UN Centre on Transnational Corporations, head of the NY office of the United Nations Conference on Trade and Development, and an early member of the staff for the 2002 Monterey Conference on Financing for Development.

Samantha Gross, *Fellow - Foreign Policy, Energy Security and Climate Initiative, Brookings Institution*



Samantha Gross is a fellow in the Cross-Brookings Initiative on Energy and Climate. Her work is focused on the intersection of energy, environment, and policy, including climate policy and international cooperation, energy efficiency, unconventional oil and gas development, regional and global natural gas trade, and the energy-water nexus. Gross has more than 20 years of experience in energy and environmental affairs.

She has been a visiting fellow at the King Abdullah Petroleum Studies and Research Center, where she authored work on clean energy cooperation and on post-Paris climate policy. She was director of the Office of International Climate and Clean Energy at the U.S. Department of Energy. In that role, she directed U.S. activities under the Clean Energy Ministerial, including the secretariat and initiatives focusing on clean energy implementation and access and energy efficiency. Prior to her time at the Department of Energy, Gross was director of integrated research at IHS CERA. She managed the IHS CERA Climate Change and Clean Energy forum and the IHS relationship with the World Economic Forum. She also authored numerous papers on energy and environment topics and was a frequent speaker on these topics. She has also worked at the Government Accountability Office on the Natural Resources and Environment team and as an engineer directing environmental assessment and remediation projects.

Gross holds a Bachelor of Science in chemical engineering from the University of Illinois, a Master of Science in environmental engineering from Stanford, and a Master of Business Administration from the University of California at Berkeley.

Ronald A. Kingham, *Executive Director, Environment & Development Resource Centre (EDRC) / Coordinator, Global Military Advisory Council on Climate Change (GMACCC)*



Ron Kingham is co-founder and Executive Director of the EDRC where he also co-coordinates the Brussels Dialogue on Climate Diplomacy (BDGD) and serves as the coordinator of the Global Military Advisory Council on Climate Change (GMACCC) as well as for the pilot project on Transatlantic Responses to 21st Century Environmental Challenges.

He is also a co-founder and former Director of the Institute for Environmental Security (IES) where he continues as a senior adviser and the IES representative in Brussels. From 2011 to 2015 he was Assistant

Manager for Project COBRA showcasing indigenous solutions for the management of natural resources and from 2012 to 2016 he was the IES coordinator in the EFFACE project on "European Union Action to Fight Environmental Crime".

At IES he also coordinated projects on Environment and Security in the Southern Mediterranean Region; Climate Change, Environment and Security in Africa; The Future of Space Cooperation in the Arctic Region; Illegal Trade in Natural Resources; Greening European Foreign and Security Policy; System Monitoring for Law Enforcement of Informal Mining; and Environmental Security for Poverty Alleviation.

In 2015 he was seconded to the Ministry of Foreign Affairs of the Kingdom of the Netherlands to assist with the organisation of the first Planetary Security Conference and in 2016 he served as the coordinator for the organisation of the 2nd Planetary Security Conference.

He is also former Executive Director of the International Coalition for Development Action and has carried out projects for the Environment Liaison Centre, European Partners for the Environment, European Environmental Bureau, the European Commission (DG Environment), and Shell International (Global Scenarios Project). In 2000-2001, he was technical adviser to the UNITAR Project: "Who Needs What to Implement the Kyoto Protocol? An Assessment of Capacity Building Needs in 33 Developing Countries".

Educated in the US and Europe, he is a political scientist with a specialisation in international relations and European integration. His studies also focused on European history, human rights and development economics.

Ashley McIlvain Moran, *Director, State Fragility Initiative, Robert Strauss Center for International Security and Law, University of Texas at Austin*



Ashley McIlvain Moran is the Associate Director of the Robert S. Strauss Center for International Security and Law where she created and leads the Center's democratic governance research team, state fragility research program, and Middle East initiative.

She also directs the Center's Department of Defense-funded program on Climate Change and African Political Stability and serves as a core researcher on its new DoD-funded Complex Emergencies and Political Stability in Asia program.

She is a Security Fellow with the Truman National Security Project. She previously served as parliamentary advisor in the Republic of Georgia for the National Democratic Institute for International Affairs (NDI), ran democratic reform programs and trainings in Iraq and Azerbaijan for NDI, and designed rule of law programs in Kyrgyzstan for the Organization for Security and Co-operation in Europe (OSCE).

Her previous policy work includes various legislative and political positions in the United States. Her research interests lie in comparative constitutional law, the intersection of constitutional order and conflict, state fragility, and democratic legal and institutional reform. Her current projects assess the role of constitutional courts in securing stability in new democracies and particularly Iraq, the effectiveness of foreign aid in promoting democracy and good governance, and factors that contribute to state fragility.

She holds an MALD in comparative law and development economics from the Fletcher School of Law and Diplomacy, and she is currently pursuing a PhD in comparative constitutional law at the University of Texas at Austin.

Oliver Morton, *Briefings Editor, The Economist (formerly Energy and Environment Editor) / Former, Chief News and Features Editor, Nature / Author of The Planet Remade: How Geoengineering Could Change the World*



Oliver Morton is The Economist's briefings editor. Before coming to The Economist as energy and environment editor in 2009, he was the chief news and features editor of Nature, the international scientific journal. He specialises in the energy business, climate science and policy, and other green issues. He is the author of "Eating the Sun: How Plants Power the Planet", a study of photosynthesis, its meanings and its implications, and "Mapping Mars: Science, Imagination and the Birth of a World". In 2016 his book The Planet Remade – on geoengineering - was shortlisted for the Royal Society Insight Investment Science Book Prize.

Major General ANM Muniruzzaman (Ret.), *Chairman, Global Military Advisory Council on Climate Change (GMACCC) / President, Bangladesh Institute for Peace and Security Studies (BIPSS)*



Major General Muniruzzaman (Ret.) is a former career military officer who spent over 38 years on active duty. During his active duty tenure he served at various levels including the command of an artillery brigade and infantry division.

General Muniruzzaman was also the head of Bangladesh artillery. He has served as military adviser to the President of Bangladesh, and has been on the faculties of the Defense Command and Staff College and the National Defence University.

General Muniruzzaman has extensive experience in UN Peace Support operations and had the distinct honour of heading the post-election UN Mission in Cambodia.

Janos Pasztor, *Executive Director, Carnegie Climate Governance Initiative (C2G), Carnegie Council for Ethics in International Affairs*



Janos Pasztor (a Hungarian and a Swiss citizen) is Carnegie Council senior fellow and executive director of the Carnegie Climate Governance Initiative (C2G). He has over 35 years of work experience in the areas of energy, environment, climate change, and sustainable development. Before taking up his current assignment he was UN assistant secretary-general for climate change in New York under Secretary-General Ban Ki-moon.

Earlier, he was acting executive director for conservation (2014) and policy and science director (2012-2014) at WWF International. He directed the UNSG's Climate Change Support Team (2008-2010) and later was executive secretary of the UNSG's High-level Panel on Global Sustainability (2010-2012).

In 2007 he directed the Geneva-based UN Environment Management Group (EMG). During 1993-2006 he worked, and over time held many responsibilities at the Climate Change Secretariat (UNFCCC), initially in Geneva and later in Bonn.

His other assignments included: in the Secretariat of the 1992 UN Conference on Environment and Development (Earth Summit '92); Stockholm Environment Institute; United Nations Environment Programme (UNEP); Secretariat of the World Commission on Environment and Development

(Brundtland Commission); the Beijer Institute; and the World Council of Churches. He has BSc and MSc degrees from the Massachusetts Institute of Technology (MIT).

Didier Reynders, Deputy Prime Minister and Minister of Foreign and European Affairs and Defence, Kingdom of Belgium



Didier Reynders is Deputy Prime Minister, Minister of Foreign and European Affairs, and of Defence, in charge of Beliris and Federal Cultural Institutions.

He is also Visiting Lecturer at the Louvain School of Management - Université catholique de Louvain (since 2007) and a Lecturer at the Université libre de Bruxelles (since 2017)

He has also served as a Lawyer (1981 - 1985), Director General of the Local Authorities Department of the Ministry of the Walloon Region (1985 - 1988), Chairman of the National Railway Company of Belgium (1986 - 1991) and Chairman of the National Society of Airways (1991 - 1993).

He has been a member of the Belgian government since 12 July 1999 where his positions included:

- Minister of Finance (1999 - 2011)
- Chairman of the Eurogroup (January - December 2001)
- President of the Ecofin (July - December 2001 / July 2010 - December 2010)
- Member of the G7 in 2001
- Chairman of the G10, which is the meeting of the main creditor States, in 2002
- Minister in charge of the Belgian Buildings Agency (2003 - 2011)
- Deputy Prime Minister since 18 July 2004
- Minister of Institutional Reforms (2004 - 2011)
- Minister in charge of the National Lottery, the Federal Holding and Investment Company (FHIC) and the insurance companies (2007 - 2011)
- Minister of Foreign Affairs, Foreign Trade and European Affairs (2011 - 2014)
- Minister of Foreign Affairs and European Affairs, in charge of Beliris and Federal Cultural Institutions since 11 October 2014, and of Defence since 9 December 2018.

Alexander Verbeek, Policy Director, Environment & Development Resource Centre / Founder, Institute for Planetary Security



Alexander Verbeek leads EDRC's policy work and co-coordinates the Brussels Dialogue on Climate Diplomacy. Alexander is also an independent advisor on global issues related to climate, security, water, food, energy and resources.

He collaborates with governments, businesses, think tanks and civil society agencies to create solutions for the environmental, security, resource and demographic challenges of the 21st century.

Alexander served as a Lieutenant in the Royal Netherlands Navy -RNLN (1990-1991) and was a diplomat for the Netherlands Ministry of Foreign Affairs from 1992 until 2016. His last position was Strategic Policy Advisor on Global Issues in the Netherlands Ministry of Foreign Affairs. He had postings in Vienna (OSCE), Bonn and London.

At MFA headquarters in The Hague, he also worked in the Middle-East Department, twice in the security department and for several years in the Asia department.

Alexander founded the Institute for Planetary Security and developed the Planetary Security Initiative, leading the team that prepared the first Planetary Security Conference in the Peace Palace in The Hague in November 2015. From 2016 until 2018 he was the Chairman of the Board of Advisors of this initiative. He is a World Fellow at Yale University, a Visiting Fellow at Uppsala University for the Department of Peace and Conflict Research and a Fellow of the RSA (Royal Society for the encouragement of Arts, Manufactures and Commerce).

In 2015 he became an Associate at the Stockholm Environment Institute (SEI) and since 2016 he is an associate at the Stockholm International Water Institute (SIWI). In 2018 he became an Associate Fellow at the Geneva Centre for Security Policy.