

**WORLD SYMPOSIUM ON CLIMATE CHANGE POLICIES: SCIENCE AND  
TECHNOLOGY IN SUPPORT OF POLICY-MAKING IN CLIMATE CHANGE  
MITIGATION AND ADAPTATION, ON-LINE, 19TH SEPTEMBER 2023**

**Time:** Sep 19, 2023 09:00 AM Amsterdam, Berlin, Rome, Stockholm, Vienna

**Zoom:** <https://haw-hamburg.zoom.us/j/65336028221>

**Meeting ID:** 653 3602 8221

**PROGRAMME**

**Plenary Session**

Chair: Prof. Walter Leal

Department of Natural Sciences, Manchester Metropolitan University, UK and  
Hamburg University of Applied Sciences, Research and Transfer Centre “Sustainable  
Development and Climate Change Management”, Hamburg, Germany

**09:00-09:10- Welcome**

**09:10-09:30 - The Working Group I contribution to the IPCC Sixth Assessment**

**Report: The Atlas**

Jens Hesselbjerg Christensen

Physics of Ice, Climate and Earth, Niels Bohr Institute, University of Copenhagen, Denmark

**09:30-09:50 -Delivering the Sustainability and Climate Change strategy – what has DfE  
been up to?**

Gayle Boulton

DfE, England

**09:50-10:10- Towards adopting action research as an underpinning methodology for  
addressing climate change**

Helena Kettleborough

Department of Strategy, Enterprise and Sustainability, Manchester Metropolitan University  
Business School, United Kingdom

**10:10-10:30- Are we climate ready? Progressive resilience for urban adaptation**

Paul O'Hare

Manchester Metropolitan University, UK

**10:30-10:40- Discussion**

**10:40-11:00- Break**

**Parallel Session 1**

Chair: Prof. Maria Alzira Pimenta Dinis

UFP Energy, Environment and Health Research Unit (FP-ENAS) and Fernando Pessoa Research, Innovation and Development Institute (FP-I3ID), University Fernando Pessoa (UFP), Porto, Portugal

**11:00-11:20- Urban vulnerability and adaptation to WEF challenges in Harare: Policy implications**

Crecentia P Gandidzanwa

University of South Africa, South Africa

**11:20-11:40- The role of science and technology in water policies reforms in a climate change context**

Ariana Montoya-Lozano

Purdue University, USA

**11:40-12:00- Is climate change policy fit for purpose? Beyond green capitalism and liberal environmentalism**

Professor Nick J Fox

Universities of Huddersfield and Sheffield, UK

**12:00 -13:00- Discussion**

**13:00-14:00- Break**

**Parallel Session 2**

Chair: Prof. Johannes Luetz

School of Law and Society, University of the Sunshine Coast, Maroochydore, Australia; School of Social Sciences, University of New South Wales, Sydney, Australia; Graduate Research School, Alphacrucis University College, Brisbane, Australia

**11:00-11:20- Carcar City and its Climate Change Policies: A Retrospective Study on Technology and Policy Change**

Anne Jeline Nellas

MHAM College Inc., Philippines

**11:20-11:40- Legal and Policy Challenges in the Development of Artificial Intelligence for adaptation and mitigation policies in Nigeria**

Erimma Gloria Orie

National open university of Nigeria, Abuja, Nigeria

**11:40-12:00- General Collective Intelligence Platforms and Climate Policy**

Andy E. Williams

Nobeah Foundation, Kenya

**12:00-12:20- Using research to inform the global carbon management standard for airport operators**

Christopher Paling

Manchester Metropolitan University, UK

**12:20-13:00- Discussion**

**13:00-14:00- Break**

**Parallel Session 3**

Chair: Prof. Fatima Alves

Departamento de Ciências Sociais e Gestão, Universidade Aberta (UAb), Lisboa, Portugal and Centre for Functional Ecology—Science for People and the Planet (CFE), Laboratório Associado TERRA, Departamento de Ciências da Vida (DCV), Universidade de Coimbra (UC), Coimbra, Portugal

**14:00-14:20- Policy Issues in climate change mitigation using technology for sustainable rural development in Nigeria**

Catherine Abiola Oluwatoyin Akinbami and Temitope Favour Jiboye

Obafemi Awolowo University, Ile Ife, Nigeria

**14:20-14:40- Navigating the Uncertainty: Legal Considerations for Marine Carbon Removal as a Climate Solution**

Tony Cabus

Walther Schücking Institute, Kiel

**14:40-15:00- The Carbon Sequestration, Inc. Biomass Burial Project: A natural, carbon-efficient, and low-cost method for removing CO<sub>2</sub> from air**

Jeffrey A. Amelse

CICECO, Aveiro Institute of Materials, Department of Chemistry Universidade de Aveiro, Portugal and Carbon Sequestration, Inc., Houston, Texas, USA

Christopher Knop

Carbon Sequestration, Inc., Houston, Texas, USA

**15:00-15:20- Break**

**15:20-15:40- Social-learning processes and behaviour modelling to reinforce climate action and policy co-design**

Andrea Castelletti

Environmental Intelligence for Global Change Lab, Department of Electronics, Information and Bioengineering, Politecnico di Milano, Italy

**15:40-16:00- Using climate modelling data to help inform decision making for housing maintenance, retrofit and climate adaptation**

Professor Carolyn Hayles

Cardiff Metropolitan University, Wales, UK

**16:00-16:20- Emerging Technologies in Climate Change Mitigation and Adaptation: Implications for Policy-Making**

Johannes Bhanye

University of the Free State, Republic of South Africa

**16:40-17:00-Plenary Session and Close**

Chair: Prof. Walter Leal

**Parallel Session 4**

Chair: Prof. Gustavo J. Nagy

Instituto de Ciencias Ambientales y Ecología, Facultad de Ciencias, Universidad de la República, Udelar, Montevideo, Uruguay

**14:00-14:20 - Emissions and energy efficiency on large-scale high performance computing facilities: ARCHER2 UK national supercomputing service case study**

Andy Turner

EPCC, The University of Edinburgh, UK

**14:20-14:40- Use of Big Data for Climate Change Actions**

Elizabeth Jackson

University of Central Lancashire (UCLan) in England, UK

**14:40-15:20- Break**

**15:20-15:40- Reversing Global Warming**

Neil Phillips

University of the West of England, Bristol, UK

**15:40-16:00- Building Resilient Cities: Sustainability Indicators and Good Practices in Urban Planning**

Ricardo Henryque Reginato Quevedo Melo

PROPUR-UFRGS, Brazil

**16:00-16:20 -Achieving Carbon neutrality in a developing country university campus: transformative actions from the 2000 Watt Smart Site label certification**

Prakash Rao

Symbiosis Institute of International Business, Symbiosis Centre for Climate Change and Sustainability, Symbiosis International University, Pune, India

**16:20-16:40- Developing a register for damage caused by climate change in Germany**

Linda Hoelscher

Adelphi, Germany

**16:40-17:00-Plenary Session and Close**

Chair: Prof. Walter Leal