

**Eleventh Meeting of the SBSTA Research Dialogue (RD 11): Science for Transformation
SBSTA 50 - Thursday 20 June 2019**

AGENDA

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| 13:15-14:45 | Poster Session (WCCB Foyer) |
| | Posters will be presented with experts available to answer questions (see below for full list of posters) |
| 15:00-18:00 | Dialogue Session (Chamber Hall) |
| | Chaired by Paul Watkinson, SBSTA Chair assisted by Sheila Ochugboju, Specialist Facilitator |

DIALOGUE SESSION

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| 15:00 | Opening |
| | Paul Watkinson, SBSTA Chair |
| 15.05 | Panel Discussions |
| | Introduction to themes 1 and 2 – Climate science update Boram Lee, Senior Scientific Officer, World Climate Research Programme (WCRP) |
| 15.15 | Theme 1. Transformation of energy and other sectoral systems to achieve the purpose and long-term goals of the Paris Agreement |
| | Response to the guiding questions (5 minute each): Elmar Kriegler , Acting Head of Department - Transformation Pathways, Potsdam Institute for Climate Impact Research (PIK) Jim Skea , Co-Chair Working Group III, IPCC Marta Torres Gunfaus , Senior Research Fellow, Climate and Energy, IDDRI Riyong Kim , Head of Programmes - Decision Metrics and Finance, Climate-KIC Carlos Fuller , Belize Harald Winckler , South Africa Q&A |
| 16.05 | Theme 2. Transformative adaptation and climate resilient development |
| | Response to the guiding questions (5 minute each): Debra Roberts , Co-Chair Working Group II, IPCC Hindou Oumarou Ibrahim , Congo Basin regional representative, Indigenous Peoples of Africa Coordinating Committee (IPACC) Candice Pedersen , Ikaarvik, SIKU team of the Arctic Eider Society, and Inuit Circumpolar Council Tom Mitchell , Chief Strategy Officer, Climate-KIC Tomohito Yamada , Associate Professor, Faculty of Engineering, Hokkaido University, Japan Paulina Aldunce , Chile Q&A |
| 16.55 | Breakout group discussions |
| | Discussions by all delegates in breakout groups with an expert from the panel and/or poster session moderating each group Each breakout group will focus on one theme and one guiding question for that theme |
| 17.25 | Reporting back from breakout groups |
| | Reporting back from breakout groups to plenary |
| 17:55 | Closing remarks |
| | Paul Watkinson, SBSTA Chair |

POSTER SESSION

Overarching (cross-theme)

Global Climate Observing System: Supporting observations in Africa

Simon Eggleston, Global Climate Observing System (GCOS)

The GEO Knowledge Hub for Transformative Solutions through Open Science

Douglas Cripe, Group on Earth Observations (GEO)

Special Report on Ocean and Cryosphere in a Changing Climate

Hans Otto Pörtner, IPCC Working Group II

AR6 Climate Change 2021: Impacts, Adaptation and Vulnerability

Hans Otto Pörtner, IPCC Working Group II

IPCC Special Report on Climate Change and Land (SRCCL)

Jim Skea, Sigourney Luz, IPCC Working Group III

World Climate Research Programme: Climate Science for Society

Boram Lee, WCRP science community

An integrated approach to Earth Energy Imbalance

Boram Lee, WCRP science community

GFCS Climate services information system – Regional climate focus including data and products for service delivery

Maxx Dilley, WMO

Green Climate Fund climate rationale

Amir Delju, WMO

Theme 1. Transformation of energy and other sectoral systems to achieve the purpose and long-term goals of the Paris Agreement

Macroeconomic impact assessment of the Spanish national energy and climate draft plan (NECP)

Maria Sanz, Basque Centre for Climate Change (BC3)

Research on Enhanced Action and Mitigation Pathways to Keep Paris Goals in Reach

Elmar Kriegler, Heleen van Soest, Detlef van Vuuren, Keywan Riahi, COMMIT and CD-LINKS consortia

The role and potential impacts of using Carbon Dioxide Removal to achieve the Paris Agreement goals

David Keller, GEOMAR Helmholtz Centre for Ocean Research

Decarbonisation or Defossilisation? Innovative Alternative Fuels for the Aviation in Brazil. An international reference model

Jürgen Kern, German Aerospace Center (DLR) Institute of Engineering Thermodynamics

Building capacities to inform short-term choices toward deep decarbonization

Marta Torres Gunfaus, IDDRI

Interlinkages, Investments, Institutions – Energy for the 21st century

Fabian Wagner and David McCollum, International Institute for Applied Systems Analysis (IIASA)

Energy and Sectoral Transition in the Context of the Paris Agreement

Jim Skea, Priyadarshi R. Shukla, Sigourney Luz, IPCC Working Group III

Global Energy Transformation: A Roadmap to 2050

Gayathri Prakash, International Renewable Energy Agency (IRENA)

Development of Sustainable, Smart, Secure and Safe Society by Comprehensive Research and Development of Gallium Nitride (GaN)

Shugo Nitta, Maki Kushimoto, Manato Deki, Atsushi Tanaka, Yoshio Honda, and Hiroshi Amano, , Center for Integrated Research of Future Electronics, Institute of Materials and Systems for Sustainability, Nagoya University, Japan

Theme 2. Transformative adaptation and climate resilient development**M'Bororo indigenous knowledge for climate adaptation and resilience**

Hindou Oumarou Ibrahim, Association of Peul Women and Autochthonous Peoples of Chad

Transformative adaptation in the Asia Pacific region

Andrew Matthews, Asia Pacific Network (APN)

Global Research and Action Agenda on Cities and Climate Change Science

Boram Lee, CitiesIPCC Partners

The Copernicus Climate Change Service (C3S): Data and tools to support adaptation actions around the globe

Stijn Vermoote, Copernicus

Building Climate Resilience through Engagement with Farmers, Communities, and Youth

Allison M. Chatrchyan, Danielle Eiseman, Cornell University, USA

Limits to climate change adaptation: New evidence and insights

Johanna Nalau, Griffith University, Australia

Ecosystem-based adaptation (EbA): A review of the constraints

Johanna Nalau, Griffith University, Australia

Healthy Urban Microbiome Initiative: A Pathway to Climate-Resilient Future

Chris Skelly, Healthy Urban Microbiome Initiative

Scaling up local actions in support of Paris Agreement: A guide for local and sub-national governments

Maryke van Staden and Pourya Salehi, ICLEI - Local Governments for sustainability

Transforming coastal-marine governance in the face of climate change

Jeremy Pittman, Inter-American Institute of Global Change Research (IAI) and University of Waterloo, Canada

A Case Study: Adaptation Measures for Extreme Floods in Japan, Using Huge Ensemble of High-resolution Climate Model Simulation

Tomohito Yamada, Associate Professor, Faculty of Engineering, Hokkaido University, Japan

Intellectual Capacity Building for a Climate-Resilient Future: the New Humanism Approach

Gaston Meskens and Silke van Cleuvenbergen, New Humanism

Climate Change Impacts and Adaptation for Transport Networks and Nodes

Lukasz Wyrowski and Martin Dagan, United Nations Economic Commission for Europe (UN-ECE)

The role of communities' perception in adaptation. An agency approach to understand adaptive capacities related to changes in water availability in El Aguacatemicro-watershed (Paz River, El Salvador)

Blanca Liliana Narvaez Marulanda, Fabrice Renaud, Zita Sebesvari, United Nations University Institute for Environment and Human Security (UNU-EHS)

Monitoring of and reporting on green infrastructure in the Sendai Framework Monitor: relevance for adaptation

Zita Sebesvari, Yvonne Walz, Blanca Liliana Narvaez Marulanda, UNU-EHS

Interactive Story map for infrastructure impacts under different scenarios in the Seychelles

Harold Rice, Brett Rolf, Jacob Rumschlag, Daniel Xie, University of Michigan, USA

CORDEX CORE: Coordinated Output for Regional Evaluation

Chris Rennard, Irene Lake, Bill Gutowski, Silvina Solman, WCRP CORDEX Science Advisory Team

Theme 3. Changing levels of risk and the attribution of extreme climate events and impacts to climate change**Weather-related hazards and population change: A study of hurricanes in the US, 1980-2012**

Elizabeth Fussel, Brown University, USA

Knowledge Action Network on Emergent Risks and Extreme Events (Risk-KAN)

Markus Reichstein, Jana Silmann, Dorothea Frank and Boram Lee, Future Earth- Integrated Research on Disaster Risk (IRDR) - WCRP, RISK KAN Development Team

ISIMIP & ISIPedia - Inter-sectoral impact modeling and communication of national impact assessments

Katja Frieler, Iliusi Vega, Potsdam Institute for Climate Impact Research (PIK)

Climate change impacts on coastal transport infrastructure in the Caribbean: enhancing the adaptive capacity of SIDS

Regina Asariotis, United Nations Conference on Trade and Development (UNCTAD)

Understanding convective extremes and related phenomena under changing climate conditions

Bill Gutowski and Silvina Solman, WCRP CORDEX Science Advisory Team

Quantifying the evidence on environmental migration: A meta-analysis on country level studies

Roman Hoffmann, Wittgenstein Centre for Demography and Global Human Capital

Global indicators for monitoring climate change, changing levels of risk, and the attribution of extreme climate events

Blair Trewin, WMO

Theme 4. Role of the ocean in the climate system**Global Synthesis of the Response of Marine Taxa to Ocean Acidification**

Katja Mintenbeck and Hans Otto Pörtner, Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research (AWI)

Climate vulnerability of fish populations: Integrating lifecycle bottlenecks and emission scenarios

Flemming Dahlke and Hans Otto Pörtner, AWI

Observing the role of the oceans in the climate system

Simon Eggleston, Global Climate Observing System (GCOS)

Blue carbon: Science developments of relevance to the UNFCCC

Kirsten Isensee, Katherina Schoo, and Salvatore Aricò, Intergovernmental Oceanographic Commission (IOC)

A 'stressed' ocean: Mitigation and Adaptation Possibilities Applying Ecosystem-Based Management

Salvatore Aricò, IOC

Acceleration of Ocean Acidification in the Western North Pacific

Toshinori Aoyagi presented on behalf of Hisashi Ono, Masao Ishii, Meteorological Research Institute, Japan

Ocean-Climate Solutions: moving from science to action

Anna Zivian, Ocean Conservancy / Ocean-Climate Platform

Future sea-level change: Lessons from the past

Marie-France Loutre and Sarah Eggleston, Past Global Changes Science Community (PAGES)

Why the Southern Ocean matters

Chandrika Nath and Eoghan Griffin, Scientific Committee on Antarctic Research (SCAR)