

CLIMATE ENGINEERING RESEARCH SYMPOSIUM 2015

Current State and Future Perspectives

// Schedule

JULY 9 | 19:00 PUBLIC EVENT

POINTING SCIENCE

July 7-10 // 2015 // Berlin

BERLIN-BRANDENBURG ACADEMY OF SCIENCES AND HUMANITIES BERLIN-BRANDENBURGISCHE AKADEMIE DER WISSENSCHAFTEN

Priority Programme 1689 of the German Research Foundation DFG



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Perspectives CLIMATE ENGINEERING RESEARCH SYMPOSIUM 2015

TUESDAY // JULY 7

09:00-12:30 Engaging Pupils in the CE-debate - A Role Play (German only)

12:00 -13:00	Snack
13:00-13:30	Welcome remarks
13:30 -17:00	Session 1 'Scientific Feasibility of Climate Engineering Ideas' // Chairs: Thomas Leisner (Karlsruhe Institute of Technology), Klaus Lackner (The Earth Institute Columbia University)
13:30	Cirrus Cloud Thinning // Jon Egill Kristjansson (University of Oslo)
14:00	Model Simulations of the Potential for Stratospheric Ozone Loss under Conditions of Enhanced Water Vapour and Sulphate Aerosol // Rolf Müller (Forschungszentrum Jülich)
14:30	Delivery Systems for SRM // Hugh Hunt (Cambridge University)
15:00 - 15:30	Coffee Break
15:30	Low Climate Potentials but large Side-Effects of Terrestrial ${\rm CO_2}$ Removal – Insights from Quantitative Model Assessments // Lena Boysen (Potsdam Insitute for Climate Impact Research)
16:00	The Role of Iron during the Open Ocean Dissolution of Olivine in a Simulated CO ₂ Removal Experiment // Peter Köhler (Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research)
16:30	Potential Consequences of Element Release from Enhanced Weathering // Thorben Amann (University of Hamburg)
17:00-17:45	Poster Slam

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WEDNESDAY // JULY 8

09:00-12:45	Session 2 'Exploring Climate Engineering Uncertainties' // Chairs: Gregor Betz (Karlsruhe Institute of Technology), Ulrike Lohmann (ETH Zürich)
09:00	Keynote by Ulrike Lohmann commented by Gregor Betz
09:40	Investigating the Uncertainty of Simulated Climate Engineering // David Keller (GEOMAR Helmholtz Centre for Ocean Research Kiel)
10:00	Is there a Limit of Sulfate Injections for Climate Engineering? // Ulrike Niemeier (Max Planck Institute for Meteorology)
10:20-10:50	Coffee Break
10:50	Exploring the 'Termination Shock' // Andy Parker (Institute for Advanced Sustainability Studies)
11:10	Atmospheric CO ₂ Stabilization by Means of Ocean Alkalinization within the 21st Century // Miriam Ferrer-Gonzales (Max Planck Institute for Meteorology)
11:30	Synthesizing Uncertainties // Johannes Lenhard (Bielefeld Universtity)
11:50	Impact of SRM on Preferences for Mitigation by Application of Cultural Cognition // Matthias Honegger (Perspectives)
12:10-12:30	Poster Slam
12:30 - 13:30	Lunch Break
13:30-17:30	Session 3 'Governing Climate Engineering Research, Potential Development and Deployment' // Chairs: Alexander Proelß (Trier University), Edward A. Parson (Emmett Institute on Climate Change and the Environment)
13:30	Minilateral Governance of Solar Geoengineering // Joshua Horton (Belfer Center for Science and International Affairs)
14:00	Strategic Conflicts on the Horizon: R&D Incentives for Environmental Technologies // Daniel Heyen (Heidelberg University)
14:30	Leveraging a Solar Climate Engineering Patent Pool for International Regulation of Field Experiments // Jesse Reynolds (University of Tilburg)
15:00	A Survey of Dynamic Games in the Exploration of Global Geoengineering Governance // Welli Cheng (Chinese Academy of Social Sciences)
15:30 -16:00	Coffee Break
16:00	The Role of Human Rights in Considering Climate Engineering Research // Michael Thompson (Forum for Climate Engineering Assessment)
16:30	Regulation of Radiation Management: Uncertainty and Incentives // Wilfried Rickels (Kiel Institute for the World Economy)
17:00	Understanding the Slippery Slope Argument against further Climate Engineering Research // David Morrow (George Mason University)
	Poster Slam Posters from Session 2, 3 + 5*

19:30 - 20:00 Understanding the Intangible: Perceiving Climate Engineering through Art and Design

// Josh Wodak (The University of New South Wales)

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THURSDAY // JULY 9

09:00-12:30	Session 4 'A Comparative View on Climate Engineering Options and Assessment Metrics // Chairs: Hermann Held (University of Hamburg), Jon Egill Kristjansson (University of Oslo)
09:00	Review of the Climate Impacts of Sulphate Aerosol Injection // Peter Irvine (Institute for Advanced Sustainability Studies)
09:20	What is the Best Measure of Justice in Climate Engineering Assessment? // Duncan McLaren (Lancaster University)
09:40	The Normative Evaluation of CE Techniques // Harald Stelzer (University of Graz)
10:00	Cost-Effective Integrated Mitigation and Solar Radiation Management Scenarios under Uncertainty // Hermann Held (University of Hamburg)
10:20 - 10:50	Coffee Break
10:50	Simulated Impacts and Side Effects of Multi-Centennial Climate Engineering // Andreas Oschlies (GEOMAR Helmholtz Centre for Ocean Research Kiel)
11:10	Comparative Assessment of Land-, Ocean-, and Atmosphere-Based Climate Engineering using the Max Planck Institute Earth System Model // Sebastian Sonntag (Max Planck Institute for Meteorology)
11:30	State Shifts
	// Vera Heck (Potsdam Institute for Climate Impact Research)
11:50	Integrated assessment of mitigation and carbon dioxide removal technologies // Elmar Kriegler (Potsdam Institute for Climate Impact Research)
12:10	Panel Discussion
12:30-13:30	Lunch Break
13:30-17:45	Session 5 'Perceptions of and Perspectives on Climate Engineering Research and Deployment' // Chairs: Katrin Rehdanz (Kiel Institute for the World Economy), Jack Stilgoe (University College London)
13:30	Geoengineering as Collective Experimentation // Jack Stilgoe (University College London)
14:00	Solar Radiation Management and Intergenerational Equity // William Burns (American University)
14:30	Climate Intervention in Africa: Perspectives based on Analogies from International Conventions on Response to Climate Change // Mary Mutiso (Kenyatta University)
15:00	Does Knowledge of Stratospheric Sulphate Injection Change Individual Efforts to Mitigate Climate Change? // Christine Merk (Kiel Institute for the World Economy)
15:30-16:00	Coffee Break





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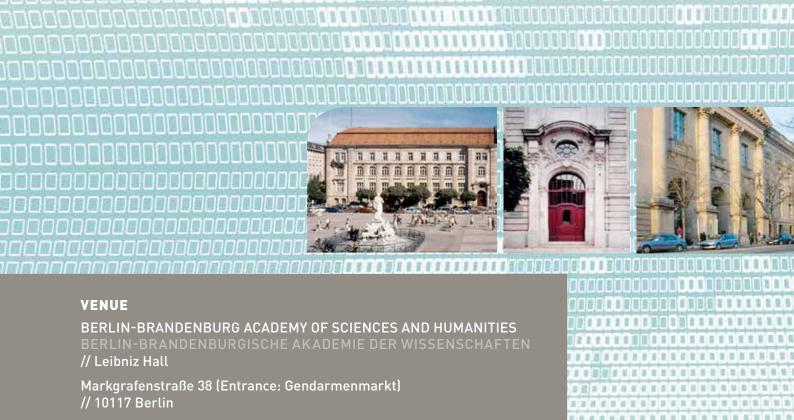
THURSDAY // JULY 9

- 16:00 Geoengineering and the Primary Institutions of International Society // Olaf Corry (The Open University)
- 16:30 Responsibility and Governance in the Climate Engineering Discourse of Science and Policy // Nils Matzner (Alpen-Adria University, Klagenfurt/Vienna/Graz)
- 17:00 What if we could Cure Climate Change?
 // Tim Kruger (University of Oxford)
- 17:30 Closing Remarks
- 17:45-19:00 Light Dinner Snacks
 - 19:00 Public Event "Pointing Science"



FRIDAY // JULY 10

- **9:00 Preparation 2nd SPP-Phase, Breakout Sessions**Please contact the conference office for available rooms for ad-hoc meetings.
- 9:00 Young Scientist Workshop "Perspective Matters"



U Hausvogteiplatz (U2)

U Französische Straße (U6)

www.spp-climate-engineering.de