

IMPLICC Final Symposium: The Atmospheric Science and Economics of Climate Engineering via Aerosol Injections

**14-16 May, 2012
Max Planck Institute for Chemistry, Mainz, Germany**

Agenda

Monday, 14 May 2012

- 12:00 Lunch

CE – An overview

- 13:30 Welcome, Logistics
- 13:40 Introductory remarks (Lennart Bengtsson, Paul Crutzen)
- 14:00 History of CE (James Fleming)
- 14:30 Overview of CE options and issues (Jim Haywood)
- 15:00 Philosophical implications of CE (Clive Hamilton)

- 15:30 Coffee

CE via stratospheric aerosols

- 16:00 Are volcanic eruptions a good analogy for climate engineering (Claudia Timmreck)
- 16:30 GeoMIP – Current status (Ben Kravitz)
- 17:00 Balancing a quadrupling of CO₂ – A comparison of four CMIP5 models (Hauke Schmidt)
- 17:20 Climate effects of different CE techniques (Ulrike Niemeier)
- 17:40 Aerosol microphysics (Francois Benduhn)

Tuesday, 15 May 2012

- 09:00 Results from the SPICE project (Matt Watson)
- 09:30 Evaluating the effectiveness and risks of stratospheric aerosol geoengineering (David Keith)
- 09:50 Discussion

- 10:20 Coffee

CE via tropospheric aerosols

- 10:50 Radiative effects of sea salt vs. other aerosol types (Michael Schulz)
- 11:10 The indirect aerosol effect – implications for CE, and sea salt CE effects in IMPLICC models (Jon Egill Kristjansson, Kari Alterskjær)
- 11:40 Eastern Pacific Emitted Aerosol Cloud Experiment (E-PEACE) (Lynn Russell)
- 12:10 Marine Cloud Brightening (J. Latham, A. Gadian)
- 12:30 Manipulating cirrus clouds (David Mitchell)
- 13:00 Discussion

- 13:30 Lunch

The economics of CE

- 14:30 Economics of climate change (Herrmann Held)
- 15:00 Results from IMPLICC (Asbjørn Aaheim)
- 15:30 Economics of CE (Adam Millard-Ball)
- 16:00 Discussion

- 16:30 Posters

- 19:30 Conference Dinner

Wednesday, 16 May 2012

Policy and future of CE research

- 09:00 Politics and CE (Tim Rayner)
- 09:30 Public policy of solar geoengineering (David Keith)
- 09:50 Perspectives on international regulation of CE (Alexander Proelss)

- 10:20 Coffee

- 11:00 An NGO's perspective on CE (Pat Mooney)
- 11:30 Geoengineering: Emerging public perceptions and stakeholder perspectives (Adam Corner)

- 12:00 Lunch

- 13:00 Climate research in FP7, with view to Horizon2020 (Franz Immler)
- 13:15 Overview on current and upcoming CE research activities in Europe (Mark Lawrence)
- 13:45 Which questions should CE research tackle in the future? (Olivier Boucher)
- 14:15 Discussion - Where do we go from here?