

Background and Objectives

There is a growing interest in the intentional manipulation and control of the climate system – known as “geoengineering” or “climate engineering”. Related concepts are moving into the mainstream debate. This is in part due to some scientists and political authorities considering geoengineering as a “Plan B” option for a “global last resort” to counter catastrophic climate change. Besides a growing research in climate engineering options the ethical and political discourse is picking up speed as well.

While research on climate engineering is attracting resources and interest, there is a lack of understanding of the potential consequences, in particular for peace and security. Actions that intentionally modify global temperature can induce difficult issues concerning national, international and regional security that could lead to new security dilemmas. As far as human and environmental security are concerned, the risks of geoengineering could provoke local responses of people who are concerned about the potential impacts and risks. This link between the global and local levels may have profound geostrategic implications and could provoke complex conflict constellations across geographic scales.

This workshop aims for a better understanding of the potential impacts of geoengineering. It provides a first mapping of the problem landscape and identifies knowledge gaps and emerging research questions. In particular, the workshop will explore the possible implications of geoengineering for peace and security affairs, based on a systematic analysis of geoengineering options and a taxonomy of possible consequences. It will discuss potential risks in an open discourse that involves researchers from various interdisciplinary backgrounds.

Supporting organizations:

- KlimaCampus, University of Hamburg
- Research Group Climate Change and Security (*CLISEC*)
- Institut für Friedensforschung und Sicherheitspolitik (*IFSH*)
- Zentrum für Naturwissenschaft und Friedensforschung (*ZNF*)
- adelphi Berlin

Organizing committee:

Christian Alwardt, Holger Braun-Thürmann, Michael Brzoska, Thomas Cannaday, Martin Kalinowski, P. Michael Link, Achim Maas, Götz Neuneck, Jürgen Scheffran, Janpeter Schilling

Venue:

KlimaCampus, Center for Marine and Atmospheric Sciences (ZMAW), Bundesstrasse 53, room 022/23 (ground floor), 20146 Hamburg

Participation:

Sessions on Nov. 10 will be open to the public; sessions on Nov. 11 will be for registered participants only.

Registration:

by October 28, 2011
via eMail to: climatesecurity@uni-hamburg.de

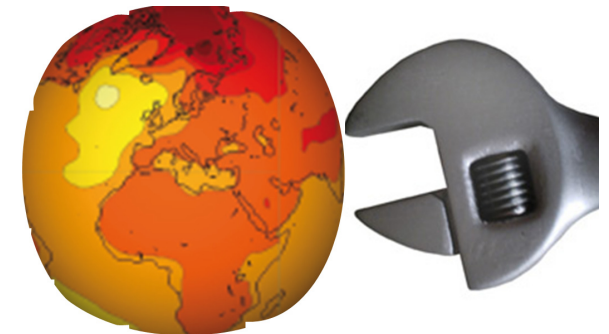
Web info:

www.clisec-hamburg.de



Geoengineering the Climate:

An Issue for Peace & Security Studies?



International Workshop
November 10-11, 2011
KlimaCampus, University of Hamburg

Conference program

Thursday, November 10, 2011

Public session

15:15 Geoengineering: an introduction

Moderator: Jürgen Scheffran (CLISEC, KlimaCampus, University of Hamburg)

- *Welcome:* Martin Claussen (KlimaCampus, University of Hamburg)
- *An overview to geoengineering:* Peter Liss (University of East Anglia, UK)
- *Commentary:* Paul Crutzen (Max-Planck-Institute for Chemistry)
- *Discussant:* Gernot Klepper (Kiel Institute for the World Economy)

17:00 Coffee break

**17:30 Public round table:
Perspectives on Geoengineering**

Moderator: Michael Brzoska (Institute for Peace Research and Security Policy Hamburg)

- *The history of geoengineering:* James R. Fleming (Colby College, Maine, USA)
- *The economics of geoengineering:* Timo Goeschl (University of Heidelberg)
- *Geoengineering and governance:* Jason Blackstock (Waterloo, ON, Canada & Vienna, Austria)
- *The ethics of geoengineering:* Konrad Ott (University of Greifswald)

Conference program

Friday, November 11, 2011

Closed session

10:00 Introduction

10:15 Geoengineering: a taxonomy

Moderator: P. Michael Link (CLISEC, KlimaCampus, University of Hamburg)

- *Aerosol dispersion:* Ulrike Niemeier (Max-Planck-Institute for Meteorology)
- *Ocean fertilization:* Andreas Oschlies (IFM-GEOMAR Kiel)
- *Afforestation:* Michael Köhl (Department of Wood Science, University of Hamburg)
- *Carbon sequestration:* Daniel Vallentin (Wuppertal Institute for Climate Environment and Energy)
- *Enhanced weathering:* Jens Hartmann (KlimaCampus Hamburg)

12:30 Lunch

13:30 Geoengineering: Peace and security

Moderator: Martin Kalinowski (Center for Science and Peace Research, University of Hamburg)

- *Potential threats and future challenges of geoengineering:* Alan Robock (Rutgers University, USA)
- *Conflict potentials of climate engineering:* Jürgen Scheffran (CLISEC, KlimaCampus, University of Hamburg)

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Security dimensions of geoengineering: Achim Maas (adelphi Berlin)

- *From weather wars to climate engineering?* Götz Neuneck (Institute for Peace Research and Security Policy Hamburg)
- *Geoengineering - three scenarios for 2040:* Henning Hetzer (Bundeswehr Transformation Centre)

15:30 Coffee break

**16:00 Geoengineering:
a global governance issue?**

Moderator: Mark Lawrence (Max-Planck-Institute for Chemistry)

- *Impacts of geoengineering: perspectives of stakeholders and the public:* Ortwin Renn (University of Stuttgart)
- *Geoengineering as a global governance issue?* Sebastian Harnisch (Institute for Political Science, University of Heidelberg)
- *International legal implications of climate engineering:* Alexander Proelß (Institute for International Law, University of Kiel)
- *Is global governance of climate engineering possible?* Hartmut Graßl, Max-Planck-Institute for Meteorology)

17:45 Summary of discussions

Moderator: Jürgen Scheffran (CLISEC, KlimaCampus, University of Hamburg)

18:00 End of workshop