Bowerman, Niel; Kruger, Tim (2011): The Student Conference debate on geoengineering

"This year’s Royal Meteorological Society Student Conference has just finished, and we look forward to contributions from it in due course. Here, two contributors to a debate held at last year’s Conference, Niel Bowerman and Tim Kruger, air their views on geoengineering as a possible means of tackling dangerous climate change."

Read more » Bowerman, Niel; Kruger, Tim (2011): The Student Conference debate on geoengineering
EN  Critical report from the German Ministry of Environment on CE. See for English version of this report here.

DE  Kritischer Bericht des Umweltbundesamtes zu CE.

Link

Read more » GEO-ENGINEERING, wirksamer Klimaschutz oder Größenwahn?: Methoden - Rechtliche Rahmenbedingungen - Umweltpolitische Forderungen

23.05.2011

# New Publications

0 Comments

Crutzen, Paul J.; Davis, Mike; et al. (Hg.) (2011): Das Raumschiff Erde hat keinen Notausgang (German Language)
On climate catastrophe and Anthropocene arguments.

Read more » Crutzen, Paul J.; Davis, Mike; et al. (Hg.) (2011): Das Raumschiff Erde hat keinen Notausgang (German Language)

Allenby, Brad (2011): Geoengineering: A critique


"Geoengineering is a technological response to the challenge of anthropogenic climate change and the failure of political mechanisms to achieve substantial progress in controlling atmospheric greenhouse gas concentrations. Because it derives from the same policy framework as current global warming initiatives, it suffers from the same deficiencies. In particular, the geoengineering dialog to date fails to understand the full power of technology systems, and, because of its singleminded focus on global climate change, inadequately defines the class of technologies included in the geoengineering category."

Read more » Allenby, Brad (2011): Geoengineering: A critique

"This article examines the implications of Solar Radiation Management climate geoengineering for intergenerational equity. It argues that under all but the most stringent circumstances, solar radiation management approaches would violate the internationally legally recognized principle of intergenerational equity."

Link

Read more » Burns, William C. G. (2011): Climate Geoengineering: Solar Radiation Management and its Implications for Intergenerational Equity


"This article identifies and explores some of the political issues that will need to be addressed in the governance of geoengineering. It is argued that the diversity of different possible geoengineering techniques—encompassing solar radiation management (SRM) and carbon dioxide removal (CDR), and further divided into territorial techniques and commons-based techniques—rules out a single mode of geoengineering governance. Whereas some geoengineering techniques may be effective when implemented by a small number of countries, others would need to be implemented around the globe and involve most countries of the world, with different countries having different comparative advantages in the various geoengineering techniques. Such an enterprise would generate collective action problems related to implementation and disagreements over who should pay for the financial and nonfinancial costs of geoengineering. Nonetheless, a more coherent system of geoengineering governance is possible and is necessary if international conflict is to be avoided and the risks of unintended consequences are to be minimized. Any new international institutional design on geoengineering will need to address some pressing political and scientific questions, including the desired mean temperature of the world’s climate, the possible role of CDR technologies in carbon offsets and emissions-trading schemes, and whether there should be differentiated obligations between different groups of states."

Read more »
Guo, Dongfang; Thee, Hendy; et al. (2011): Borate-Catalyzed Carbon Dioxide Hydration via the Carbonic Anhydrase Mechanism

"The hydration of CO(2) plays a critical role in carbon capture and geoengineering technologies currently under development to mitigate anthropogenic global warming and in environmental processes such as ocean acidification. [...]"

Isomäki, Risto (2011): 66 Ways to Absorb Carbon and Improve the Earths Reflectivity. From Reasonable options to Mad Scientist Solutions

Updated version of a report first published 2009.

Link

Read more » Isomäki, Risto (2011): 66 Ways to Absorb Carbon and Improve the Earth's Reflectivity. From Reasonable options to Mad Scientist Solutions

17.04.2011

# Media

Comments

Climate Progress: Science Sunday: “The economics (or lack thereof) of aerosol geoengineering”

Blog article about the ethical implication in an economical study by Ken Caldeira.

Read more »
Hommel, René; Graf, Hans-F (2011): Modelling the size distribution of geoengineered stratospheric aerosols

"A modelling study on the growth of geoengineered stratospheric aerosols reveals that in steady state a large fraction of aerosols grow to micrometre sizes so that the sedimentation of aerosols might limit the geoengineered aerosol layer's ability to achieve its target cooling effect."