

"Fracking Technology for the Extraction of Natural Gas from Unconventional Reservoirs – Criteria for Safety and Environmental Compatibility"

Scientific Status Conference of the Neutral Expert Group in the Info Dialogue on Fracking

6/7 March 2012, Kulturbrauerei, Berlin

Tuesday 6. March 2012 11.30 to 19.00

11.30 Get-together and lunchtime snack

13.00 Introduction

Objectives, Structure and Methodology of the Study. Main outcomes.

Prof. Dr. Dietrich Borchardt, Helmholtz Centre for Environmental Research UFZ

13.30 Below-ground processes

13.30 Hydrogeological Settings and the Transport of Materials.

Prof. Dr. Martin Sauter, University of Göttingen

13.50 Modelling of Underground Transport Processes.

Prof. Dr. Rainer Helmig, University of Stuttgart

14.20 Above-ground processes

14.20 Incident Scenarios, Risk Management and State of the Art.

Dr. Hans-Joachim Uth, Chemical Plant Safety Expert

14.40 State of the Art and Progressive Approaches in Flowback Disposal.

Prof. Dr. Karl-Heinz Rosenwinkel, University of Hanover

15.00 Break

15.20 Balances

15.20 Land Needs, Landscape Requirements and Noise.

Helmut Schneble, Umweltplanung Bullermann Schneble GmbH

15.35 Energy Balance and Carbon Footprint.

Uwe Fritsche, Öko-Institut e. V.

15.50 Evaluation methods

Toxicological Evaluations and Risks to the Ground Water, Drinking Water and Aquatic Ecosystems.

15.50 *Dr. Birgit Gordalla*, Karlsruhe Institute of Technology KIT

16.00 *Prof. Dr. Ulrich Ewers*, Hygiene Institute of the Ruhr

16.10 *Dr. Mechthild Schmitt-Jansen*, Helmholtz Centre for Environmental Research UFZ

16.20 Classification and Evaluation in Environmental Law.

Prof. Dr. Alexander Roßnagel, University of Kassel

16.40 Break

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17.10 Introduction to the Peer Review topics

- Alan J. Krupnick, Ph.D., Resources for the Future, Center for Energy Economics and Policy, Washington D.C.
 - Michael A. Celia, Ph.D., Professor of Environmental Studies, Princeton University
 - Avner Vengosh, Ph.D., Professor of Geochemistry and Water Quality, Duke University (in writing)
 - David Yoxtheimer, P.G., Penn State Marcellus Center for Outreach and Research (in writing)
 - Dr. Michael Struckl, Head of the Industrial Waste Department, Austrian Ministry of Economics
 - Prof. Dr. Helmut Kroiss, Institute of Water Quality and Waste Management, Vienna University of Technology
 - Prof. Dr. Hermann H. Dieter, former Head of the Toxicology of Drinking Water Unit at the Federal Environmental Agency, Germany
 - Prof. Dr. Beate Escher, National Research Centre for Environmental Toxicology (Entox), The University of Queensland (in writing)
 - Prof. Dr. Michael Reinhardt, Institute of German and European Water Management Law, Trier University
 - Ramón Alvarez, Ph.D., Environmental Defense Fund, Washington D.C. (in writing)
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18.50 Formation of the Peer Review Groups and Ad Hoc Groups

19.00 End of Day 1

Wednesday 7. March 2012 9.00 to 14.00

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Wednesday 7. March 2012 9.00 to 14.00

9.00 Review Groups and Ad Hoc Groups

9.00 Team 1:

– Fracking Chemicals – Toxicological Assessment.

Prof. Dr. Hermann Dieter, Prof. Dr. Ulrich Ewers, Prof. Dr. Fritz Frimmel, Dr. Mechthild Schmitt-Jansen, Dr. Birgit Gordalla

Team 2:

– Underground Migration of Pollutants.

Prof. Michael Celia PhD, Prof. Dr. Rainer Helmig, Prof. Dr. Martin Sauter

Team 3:

– Landscape and Land Use.

Helmut Schneble

Team 4:

– Sewerage and Waste Disposal.

Prof. Dr. Helmut Kroiss, Prof. Dr. Karl-Heinz Rosenwinkel

– Two Ad Hoc Groups possible.

10.30 Team 5:

– Safety and Technology – Drill Site, Drill Hole, Pipelines.

Dr. Michael Struckl, Dr. Hans-Joachim Uth

Team 6:

– Seismic Events.

Prof. Dr. Manfred Joswig, Prof. Dr. Martin Sauter

Team 7:

– Legal Classification of the Results.

Prof. Dr. Michael Reinhardt, Prof. Dr. Alexander Roßnagel

– Three Ad Hoc Groups possible.

11.45 Lunch

12.30 Plenary session: Results, open questions and need for research

13.00 Final presentation

Legitimation by Communication? The Social Debate on Engineering Projects.

Prof. Dr. Frank Brettschneider, University of Hohenheim

14.00 Close

Conference organisation:

hammerbacher gmbh _ beratung & projekte _ Schnatgang 27 _ 49080 Osnabrück

T +49 (0) 541 33 88 2-0 _ assistenz@hammerbacher.de

