



Shale gas & fracking: state of the art

Workshop and panel discussion

organized by the Energy Science Center of ETH Zürich, under the auspices of the Swiss Gas & Water Industry Association and the Swiss Competence Center for Energy Research SoE

Wednesday, April 2nd 2014, 10:00 - 16:30
ETH Zürich, Main building, Audimax

«Gas: too much of a good thing?»

«Climate impact of potential shale gas production in the EU»

«Do the benefits derived from shale gas outweigh the drawbacks of fracking?»

These are the titles of recent reports on shale gas and fracking from different sources, which refer explicitly to the technology's pros and cons.

In fact, shale gas, produced by hydraulic fracturing («fracking») of tight rock formations, seems on the one hand to be transforming the world's energy outlook thanks to its abundance (including Europe), but on the other hand extracting shale gas is controversial and fiercely opposed, due to environmental concerns regarding land use and ground water resources.

The one-day workshop organized by the ESC of the ETH Zürich contributes to the dialogue by providing the scientific and technical background and a platform for an in-depth discussion involving the key stakeholders and the audience.

Program

10:00	Welcome	12:15	Lunch (Foyer Audimax)
10:15	Technical presentations	13:30	«Shale gas and fracking related induced seismicity: Lessons from abroad and implications for Switzerland»
10:15	«Technology overview» <i>Marco Mazzotti</i> – Professor of process engineering, ETH Zürich. Chairman of the board of the Energy Science Center.		<i>Stefan Wiemer</i> – Director of the Swiss Seismological Service. Professor of seismology, ETH Zürich.
10:45	«Advanced geophysical methods for exploration and monitoring» <i>Johan Robertsson</i> – Professor of exploration and environmental geophysics, ETH Zürich.	14:00	«Resources and perspectives for Switzerland» <i>Werner Leu</i> – Geoform, Geological Consulting and Studies.
11:15	«Shale gas exploration: Water related issues» <i>Marion Junghans</i> – Risk assessment group, Ecotox Center, Eawag-EPFL.	14:30	Panel discussion Moderator: <i>Thomas Häusler</i> – Chief science editor, SRF.
11:45	«Environmental performance from a life cycle perspective» <i>Christian Bauer</i> – Technology Assessment Group, PSI.	16:30	Close and coffee

science technology assessment stakeholder dialogue

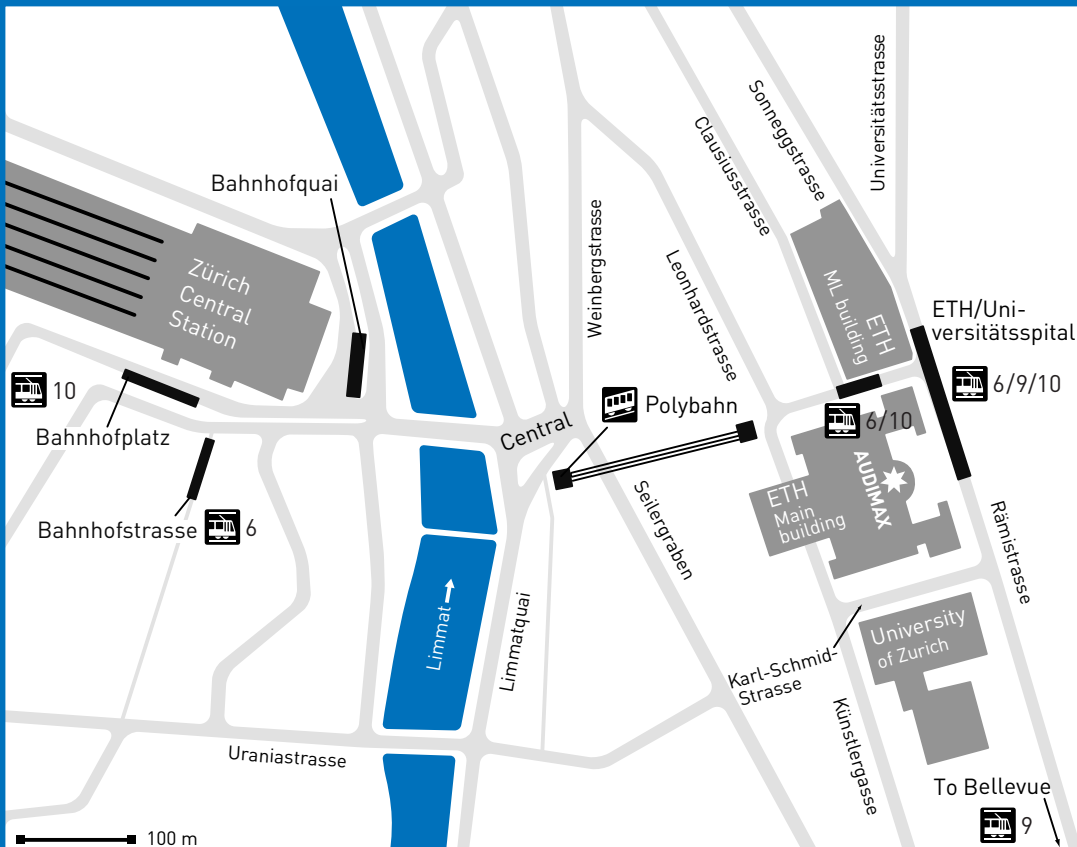
Panelists

- *Jean-Claude Weber*
Vice president of the SVGW executive board.
- *Domenico Giardini*
Professor of Seismology and Geodynamics, ETH Zürich. Director of the SCCER-SoE (Supply of Electricity).
- *Lucas Bretschger*
Professor of Resource Economics, ETH Zürich. President Elect of the European Association of Environmental and Resource Economists.
- *Gunter Siddiqi*
Energy Research Section of the Swiss Federal Office of Energy SFOE, responsible for research program Geothermal energy and Power plant 2020/CCS.
- *Elmar Grosse-Ruse*
WWF Switzerland, Climate & Energy, lead author of position paper «Gasförderung in der Schweiz»
- *Peter Burri*
President of the Swiss Association of Energy Geoscientists SASEG. Chairman of the scientific advisory board of GeoEnergie Suisse.

Attendance and refreshments are free, but registration is required to participate.

Please follow the link below to register by March 31st, 2014:

www.esc.ethz.ch/events



Way to ETH main building

ETH Zürich, Audimax conference room, 1st floor, Rämistrasse 101, 8092 Zürich

Travelling by public transport

The main building of ETH Zürich can be reached:

- from Zürich Central Station taking tram No° 6 (towards Zoo) or No° 10 (towards Zürich Airport) to «ETH/Universitätsspital»
- from Bellevue taking tram No° 9 (towards Hirzenbach)
- from Central by Polybahn (funicular railway)

Contact

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