



Swiss Association of Energy Geoscientists  
Schweizerische Vereinigung von Energie-Geowissenschaftlern  
Association suisse des géoscientifiques de l'énergie  
Associazione svizzera geoscientifici dell'energia



**UNIVERSITÉ  
DE GENÈVE**

FACULTÉ DES SCIENCES

The Swiss Association of Energy Geoscientists (SASEG)  
presents  
in cooperation with the Department of Earth Sciences of the University of Geneva  
a lecture by

**Heimo Heinzle**  
Managing Director RAG Energy Drilling, Austria

# "Drilling, a high precision technology - current challenges and possible ways forward"

**Wednesday, 10 February 2016, 17h15**

University of Geneva, Department des Sciences de la Terre, Auditorium 1  
13, Rue des Maraîchers  
1205 Genève

You are cordially invited to attend (non SASEG guests welcome)

Peter Burri  
SASEG President





## The topic

The talk is aimed at all those who wonder how modern drilling is done and how it is possible to drill horizontally and reach targets, many kilometres away with an error of a few metres at most.

Drilling has evolved from a brute force approach into a very sophisticated and high precision technology. There is also the challenge of offshore drilling where wells in water depths of 3000m and more are being drilled.

The talk will address the present challenges:

- Horizontal and extended reach drilling
- The technologies of directional drilling, Geosteering, Measurement while drilling
- Underbalanced drilling, Casing drilling, Coiled tubing drilling
- New technologies in penetration: Laser drilling, Plasma drilling
- Automation of drilling

And it will address the question of what is in the pipeline for the future

## Heimo Heinzle

Heimo Heinzle has a rich experience in theory and practical operations of drilling.

- Studied at the Mining University Leoben and graduated with a Master in Petroleum Engineering (Thesis on optimized drilling for underground gas storage).
- Teaching Drilling Engineering at University Leoben.
- Worked 5 years as drilling engineer and drilling superintendent with OMV in Austria, Australia, Pakistan, New Zealand and Tunisia
- Four years with Chevron and AGR and OMV on different deepwater projects in the northern North Sea and West of Shetland.
- Since 2010 with RAG as Head Drilling and now Managing Director