

# Workshop on Monitoring Technologies

Potential application to monitoring of  
geological repositories for radioactive waste

7-8 June 2010 **Université de technologie  
de Troyes, France**

9 June 2010 **Optional tour of Andra's Underground  
Research Laboratory at Bure, to view  
research activities associated with the  
geological disposal of radioactive waste**

[www.modern-fp7.eu](http://www.modern-fp7.eu)

The MoDeRn project aims to provide a reference framework for monitoring activities in geological repositories for radioactive waste. As in other, related fields, the development and use of state-of-the-art technologies is key to a successful implementation of monitoring.

The MoDeRn Monitoring technology workshop aims to bring together monitoring specialists sharing similar technical requirements, e.g. from the civil, mining, oil and gas, nuclear engineering, carbon capture and storage, gas storage, and radioactive waste management fields. The main goals of the workshop are to:

- Review recent developments in monitoring technologies
- Facilitate knowledge transfer between these related fields
- Consider application of monitoring technologies to repository monitoring

Discussions on these topics will be structured around oral presentations, poster sessions and informal exchanges. In particular, a brief introduction to geological repositories and the option of a field trip to Andra's URL will provide participants with an insight into monitoring requirements related to radioactive waste disposal.

#### Workshop scope:

- Sensor technologies
- Data transmission (fibre optics and wireless transmission)
- Geophysical techniques (seismic, gravity and magnetics)
- Seismic tomography
- Acoustic emission monitoring
- Long-term borehole monitoring sampling
- Air-based techniques (e.g. satellite radar interferometry)
- Mine safety monitoring
- Radioactive store monitoring
- Carbon capture and storage
- Structural health monitoring

**Abstracts should be submitted to  
Alastair Clark by 24<sup>th</sup> April 2010**

**The workshop is limited to 50 participants. Workshop proceedings including accepted abstracts, posters/presentations and a record of discussions will be available 2 months after the event.**

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**Registration and  
attendance details  
to be announced  
in due course**



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