

# PETRUS-OPERA PhD and Early Stage Researcher Conference 2016

## Radioactive Waste Management and Geological Disposal

Programme	
<b>Day 1 – Introduction</b>	<ul style="list-style-type: none"> <li>Welcome <i>Representative from OPERA/PETRUS/organising committee</i></li> <li>Origin of radioactive waste, classification, solutions. <i>Lecturer: Denis Bykov, TU Delft</i></li> <li>Principles of radioactive waste disposal <i>Lecturer: TBC</i></li> <li>Waste management, storage and disposal programme <i>Lecturer: Ewoud Verhoef, COVRA</i></li> <li>How to develop a source term for disposal of waste (waste families, inventory) <i>Lecturer: Erika Neeft, COVRA</i></li> <li>-----Lunch-----</li> <li>Poster session of researchers/PhD students</li> <li>Visits to the Delft nuclear reactor (small groups during the poster session)</li> </ul>
<b>Day 2 – Field trip</b>	<ul style="list-style-type: none"> <li>COVRA – storage facilities</li> <li>The underground research repository in Mol</li> </ul>
<b>Day 3 – Short-term behaviour</b>	<ul style="list-style-type: none"> <li>Underground disposal: design, construction and mechanical behaviour <i>Lecturer: Phil Vardon, TU Delft</i></li> <li>Cementitious materials for repositories <i>Lecturer: Rob Wiegers, IBR Consult BV</i></li> <li>Microbiological effects on the EBS <i>Lecturer: Karsten Pedersen, Micans</i></li> <li>Thermal period <i>Lecturer: TBC</i></li> <li>-----Lunch and poster session-----</li> <li>PhD/early stage researcher presentations</li> <li>Visits to the Delft nuclear reactor</li> <li>----- Networking Dinner -----</li> </ul>
<b>Day 4 – Long-term behaviour</b>	<ul style="list-style-type: none"> <li>Hydro-geological setting <i>Lecturer: Johan ten Veen, TNO</i></li> <li>Waste packaging and degradation <i>Lecturer: Guido Deissmann, Brenk Systemplanung GmbH</i></li> <li>Coupled reactive transport <i>Lecturer: Tobias Reich, Johannes Gutenberg-Universität</i></li> <li>Radionuclide transport and retardation <i>Lecturer: Hans Meeussen, NRG</i></li> <li>-----Lunch and poster session-----</li> <li>PhD/early stage researcher presentations</li> <li>Visits to the Delft nuclear reactor</li> </ul>
<b>Day 5 – Safety</b>	<ul style="list-style-type: none"> <li>Ethical and social aspects <i>Lecturer: TBC</i></li> <li>Natural Analogues <i>Lecturer: Ulrich Noseck, GRS</i></li> <li>Uncertainties in the long-term safety <i>Lecturer: Klaus-Jurgen Rohlig, TU Claustal and NEA</i></li> <li>Performance assessment <i>Lecturer: Sarah Watson, Quintessa</i></li> <li>The safety case <i>Lecturer: TBC</i></li> <li>-----Lunch-----</li> <li>Test, wrap-up discussion.</li> <li>Prizes for best poster / presentation</li> </ul>