

Dear Colleagues,

Following the successful inaugural PhD conference in radioactive waste management and disposal held in Nancy, France in 2015, the 2nd conference in this series will be held in Delft, the Netherlands.

From 27<sup>th</sup> June to 1<sup>st</sup> July 2016 Delft University of Technology will host the second PETRUS-OPERA PhD Conference in Delft, the Netherlands, dedicated to:

## **Radioactive Waste Management and Geological Disposal.**

The event is co-organised within the PETRUSIII project granted by the European Commission in the framework of EURATOM programmes and the OPERA, the Dutch national research programme.

The conference consists of two main components:

- A set of high quality lectures on radioactive waste disposal presented by outstanding international experts. **These lectures are open to all attendees.**
- Oral presentation and poster exhibition of on-going research work by participants. **The best oral and poster presentations will be rewarded.**

We would like to invite PhD students and early-stage researchers who are involved in any aspects of radioactive waste research to submit an extended abstract of 1-3 pages. We welcome also research subjects from the social and economic areas related to the radioactive waste management.

The working language of the conference is English.

**Participation in PETRUS-OPERA PhD Conference 2016 is free of charge\*.**

**\*Accommodation and travel is payable by the participants.**

Registration for the conference, abstract submission, and hotel information are available at:

[www.petrus-opera2016.eu](http://www.petrus-opera2016.eu)

We look forward to seeing you in Delft in June 2016. Don't hesitate to contact us at:

[PhD-event@petrus-opera2016.eu](mailto:PhD-event@petrus-opera2016.eu)

Best Regards,

On behalf of the PETRUS-OPERA PhD Conference Organisation Committee

**PETRUS** 



  
**TU Delft**



## Draft Programme

### Day 1 - Introduction

- Welcome
- Origin of radioactive waste, classification, solutions.
- Principles of radioactive waste disposal
- Waste management, storage and disposal programme
- How to develop a source term for disposal of waste (waste families, inventory)  
-----Lunch-----
- Poster session of researchers/PhD students
- Visits to the Delft nuclear reactor (small groups during the poster session)

### Day 2 – Field trip

- COVRA – storage facilities
- The underground research repository in Mol

### Day 3 – Short-term behaviour

- Underground disposal: design, construction and mechanical behaviour
- Cementitious materials for repositories
- Microbiological effects on the EBS
- Thermal period  
-----Lunch and poster session-----
- PhD/early stage researcher presentations
- Visits to the Delft nuclear reactor (small groups during the sessions if required)  
----- Networking Dinner -----

### Day 4 – Long-term behaviour

- Hydro-geological setting
- Waste packaging and degradation
- Coupled reactive transport
- Radionuclide transport and retardation  
-----Lunch and poster session-----
- PhD/early stage researcher presentations
- Visits to the Delft nuclear reactor (small groups during the sessions if required)

### Day 5 – Safety

- Ethical and social aspects
- Natural analogues
- Uncertainties in the long-term safety
- Performance assessment
- The safety case  
-----Lunch-----
- Prizes for best poster / presentation

Lectures confirmed from COVRA, NEA, TU Delft, GRS, NRG, TU Claustal, IBR Consult BV, Micans, Chalmers University....more to be announced.

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