



# DOPAS 2016 Seminar

May 25<sup>th</sup> - 27<sup>th</sup> 2016, Turku - Finland

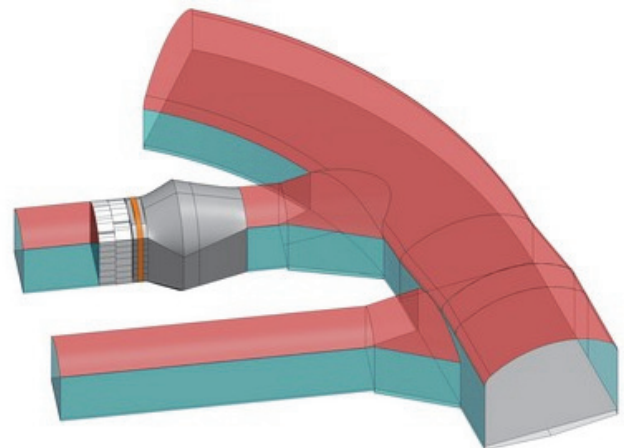
## International topical seminar on plugging and sealing

Demonstration of the industrial feasibility of plugs and seals, the measurement of their characteristics, the monitoring of their hydraulic and mechanical behaviour under repository conditions, and their performance with respect to a range of safety objectives is essential before implementation and operation of repositories for spent fuel or HL and IL/LL waste.

The international seminar DOPAS 2016 will focus on the state-of-the-art of plugs and seals. This will include discussion of the lessons learned from full-scale demonstrations undertaken as part of the European Commission DOPAS Project between 2012 and 2016. The seminar will highlight the design basis of plugs and seals, reference designs including rock excavation and materials development, and strategies to demonstrate the compliance of the reference designs to the design basis and how full scale experiments can support implementation.

The seminar will seek to develop a broad overview of plugs and seals. To this end, the seminar encourages participation from anyone undertaking research and development on plugs and seals in all types of repository programmes, as well as regulators and other stakeholders. In addition, the seminar would welcome perspectives from other industries, such as mining, hazardous waste disposal, CO<sub>2</sub> sequestration and underground storage where final closure is needed.

Plenary session, oral presentations  
and poster sessions will be organized.  
A technical tour  
to Olkiluoto repository location  
will be arranged on 27<sup>th</sup> May 2016.



### Contact

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## SCOPE OF DOPAS 2016 SEMINAR



### Outcomes from the DOPAS Project

- Development of the design basis for plugs and seals; lessons from construction of plug and seal demonstrators; performance assessment of plugs and seals

### Plugs and seals for other purposes

- Borehole sealing; plugs and seals in underground gas storage facilities, mines and underground hazardous waste disposal facilities

### Siting of plugs and seals

- How to locate plugs and seals; requirements on the rock; and construction/rock excavation techniques

### Plug and seal design, materials and implementation

- Developing systematic requirements and design specifications, and the role of modelling as an input to design; concrete, bentonite and other materials design, including recipes and acceptance testing for plugs and seals; civil works and installation of plugs and seals; lessons from full-scale demonstrators in different geological environments

### Role of plugs in Safety and Performance assessment

- Performance assessment modelling; monitoring of plugs and seals (demonstrator tests and in the repository); assessment of the compliance of plugs and seals with requirements; and experiment feedback to the design basis

### The way forward for plug and seals

- The future activities that need to be undertaken prior to readiness to construct plugs and seals in operating repositories; current requirements of less advanced programmes; regulatory review; societal aspects and role of stakeholders in full-scale demonstrations of plugs and seals

## SCHEDULE OF DOPAS 2016 SEMINAR

- Call for abstracts: Summer 2015
- Deadline for abstracts: November 2015
- Author notification: January 2016
- Final programme: February 2016
- Extended abstract submission: March 2016
- **DOPAS 2016 Seminar: 25-27 May 2016**
- Proceedings published: August 2016



[www.posiva.fi/en/dopas](http://www.posiva.fi/en/dopas)

*The medieval Turku is Finland's oldest city and the first university town. Turku is an important maritime centre and hub for high-tech scientific companies. Turku is located about 160 km west from Helsinki and served by an international airport, and has excellent road and rail links to Helsinki and ferry links to Stockholm. The month of May in Turku is delightful, with mild temperatures and long sunny evenings.*

