

Website

Detailed information concerning programme, registration, instructions for abstract submission, transport and accommodation is available through the Modern2020 website www.modern2020.eu.

An international conference

Organised by the Modern2020 EURATOM Project.

Contacts

final-conference@modern2020.eu

Chair of the Organising Committee
Modern2020 Coordinator:
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Official Language

English will be the working language for the oral/written communications of the conference.

Venue

Cité Universitaire de Paris,
17 Boulevard Jourdan, 75014 Paris, France

Conference fee

There is no conference fee.

Participants are responsible for their own travel and hotel arrangements and costs. Advance registration will be required.

Organising Committee

Johan Bertrand, Andra (R&D Division), France
Mauro Cappelli, ENEA, Italy
Pieter Cools, University of Antwerp, Belgium
Bernd Frieg, NAGRA, Switzerland
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09-11 April
2019
Paris, France

Save
the Date

2nd International Conference on
**MONITORING IN GEOLOGICAL
DISPOSAL OF RADIOACTIVE WASTE**

Strategies, technologies, decision making and public involvement

1st Announcement & 1st Call for Abstracts

www.modern2020.eu

Objectives of Modern2020 International Conference

Modern2020 organises an international conference on Monitoring in Geological Disposal of Radioactive Waste.

The objective is twofold:

to invite experts to contribute to and participate in discussions on monitoring strategies and technologies, how monitoring can inform the disposal development process, how monitoring can assist dialogue with regulatory agencies, and how monitoring can contribute to confidence building in relation to the geological disposal of radioactive waste;

and **present and discuss the results** of Modern2020 project.

Main topics of the Conference

The conference focuses on monitoring activities to support evaluations of the performance of natural and engineered barriers during operational period in a disposal facility as a tool to building confidence in the long term post-closure safety case. The overall understanding of monitoring and its potential role in the disposal facility process will be presented and discussed in the light of expected monitoring needs, associated technical requirements, and the current state of the art regarding monitoring technologies and their future potential uses.

Abstracts are invited on the following topics:

Monitoring technologies:

Abstracts are solicited with a focus on monitoring in underground environments, covering for example innovations in i) Monitoring sensor technology (low-power consumption or self-powered, energy harvesting & storage, wireless transmission, passive technologies, radiation tolerant etc.); ii) Long-term durability (performance beyond 10 years); iii) Fiber-optics; iv) Non-intrusive technologies (seismic tomography, electrical resistivity tomography;...); v) End-user procedures for performance qualification (radiation, long live...etc.).

Post closure safety and monitoring strategies:

Abstracts are solicited covering high level issues regarding the motivation for monitoring in relation to geological disposal facilities and other relevant monitoring programmes where concepts, procedures and strategies might be transferable. Topics of interest include specific objectives, parameter selection procedures, and strategies for implementation. A particular focus should be if/how monitoring during the operational phase could build further confidence in long-term safety (i.e. following final closure of the facility). Theoretical as well as practical studies are of interest.

Long-term integrated monitoring:

Abstracts are solicited on the results of long-term (several decades) integrated monitoring programmes. Field experimental set-ups simulating different aspects of geological disposal are an essential tool in the development of geological disposal concepts. Such set-ups involve a lot of monitoring to provide the required data to the investigators.

In addition to the use of monitoring data for the primary objectives of the set-up (e.g. model validation), these data also teach us about the sensor reliability in real conditions. In this topic, the focus is mainly on the other functions of monitoring that originally might not have been considered, such as: i) Long-term data management challenges; ii) Monitoring results and decision-making (e.g. adaptation of the experimental programme); iii) Enhancement of communication with external people (e.g. citizen stakeholders) by sharing monitoring data.

Registration

July 2018	1 st Announcement + 1 st Call for Abstracts
September 2018	2 nd Announcement + 2 nd Call for Abstracts
October 2018	Registration opens
31st December 2018	Draft programme of the Conference
15th January 2019	Registration deadline
February 2019	Final programme of the Conference
09-11 April 2019	Modern2020 Conference

Key dates for authors

July 2018	Call for Abstracts – 1 st call
31st October 2018	Deadline for abstract submission
30th November 2018	Author notification
20th December 2018	Extended abstract submission
30th January 2019	Extended abstracts reviewed
15th February 2019	Final extended abstract submission
09-11 April 2019	Modern2020 International Conference
June 2019	Proceedings published

Decision-making and response plans:

Abstracts are solicited on the use of monitoring data and information to support decision making during the repository operational phase. Topics of interest include planning for evaluating and responding to monitoring results, decision-making processes, and implementation of response plans. A particular focus should be if/how monitoring of the repository engineered barriers and nearby host rock could support decisions and actions taken during the operational phase. Theoretical as well as practical studies are of interest.

Citizen stakeholder participation:

This session welcomes contributions about strategies for engaging citizen stakeholders in the development of large infrastructure projects that involve monitoring. Contributions relating to experiences of how citizen stakeholder participation in other highly specialized research projects can influence the development of monitoring technology are also of interest.

Abstract submission

Applications of monitoring should not be restricted to radioactive waste management and the nuclear technologies. Given the international scope of the project, we very much welcome papers with a comparative perspective with other fields. A link to one of the main topics that has been considered in the Modern2020 project is highly recommended.

Abstracts should be submitted to the conference organising committee
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