

Joint ICTP-IAEA International School on Nuclear Waste Vitrification



23 - 27 September 2019
Trieste, Italy

Further information:
<http://indico.ictp.it/event/8772/>
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Nuclear waste management is a core issue for sustainable development and long-term viability of nuclear energy as energy supply. Glass is the overwhelming worldwide choice for the immobilisation of radioactive waste resulting from nuclear fuel reprocessing and other nuclear activities. The main goal of this School is the dissemination of knowledge on optimal methods of utilization of vitreous wasteforms for the immobilization of dangerous radionuclides. Another goal is transferring experience of vitrification technologies from leading centers and specialists to participants.

Course Directors:

Isabelle Hugon
Nuclear Research Division, CEA
Bagnols-sur-Ceze Cedex - France

Willie Meyer
IAEA, Vienna - Austria

Michael I. Ojovan
Imperial College London - UK

Description:

This School will assist experts from nuclear energy research, materials science and vitrification. The aim is to better understand and appreciate the wide range and full potential of glass science including technology tools, methods devoted to vitrification and properties of vitreous materials. Participants should return from the School with a richer understanding of vitrification as an immobilisation technology and the range of techniques available to investigate nuclear glasses and glass composite materials. This School will contribute to develop further international collaboration in the field of nuclear waste vitrification.

Topics:

- Fundamentals of nuclear waste immobilisation in vitreous materials and modelling of nuclear glass structures;
- Technological approaches of nuclear waste vitrification;
- Chemical durability of vitreous wasteforms and long-term performance modelling;
- Interaction of vitreous wastes repository with geological environments and modelling of aging processes;
- Radiation damage effects in vitreous wasteforms (including modelling).

Local Organiser:

Sandro Scandolo
ICTP, Trieste - Italy

How to apply:

Online application:
<http://indico.ictp.it/event/8772/>

Female scientists are encouraged to apply.

Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Deadline:

10 June 2019

