

Content

| | | |
|----------|---|------------|
| | Introduction..... | I |
| | Content..... | III |
| 1 | Agenda | 1 |
| 2 | Titles of the Lectures of the Authors..... | 3 |
| 2.1 | IAEA Activities related to Extended Storage of Fuel..... | 5 |
| 2.2 | BGZ's Research Programme - Update and Overview | 6 |
| 2.3 | Feasibility of passive measurements of the peak temperature of the cladding in a spent fuel cask during fuel transfer..... | 7 |
| 2.4 | Self-limitation of cladding creep in dry storage..... | 11 |
| 2.5 | Extended Storage of Spent Nuclear Fuel in Casks, Inventory Assessment using Fuel Rod Performance Codes - An Update and recent Developments..... | 16 |
| 2.6 | Spent Fuel Safety Analysis during Dry Storage through Fuel (GIFT) and Thermal analysis (COBRA-SFS) Integrated Code | 23 |
| 2.7 | Structural Response of Reinforced Concrete Structures under Impact Loading..... | 24 |
| 2.8 | Evaluation of load scenarios for Spent Fuel Assemblies | 30 |
| 2.9 | Impact of Modeling Assumptions on Muon Scattering Images of Loaded Dry Storage Casks,..... | 33 |
| 2.10 | Radiation-based methods for non-invasive monitoring of transport and storage casks | 36 |
| 2.11 | Update of the SPIZWURZ project..... | 37 |
| 2.12 | SPIZWURZ Benchmark for simulation of hydrogen behaviour in fuel rod claddings at dry storage relevant conditions. Phase 1 (Blind tests).... | 39 |
| 2.13 | Evaluation methodology of spent fuel mechanical performance under UO ₂ oxidation in dry management | 41 |
| 2.14 | Investigation of chemical and mechanical properties of irradiated Zircaloy possibly influencing the structural integrity during dry (long- term) interim storage..... | 49 |
| 2.15 | Activities of Axpo in the field of fuel integrity during dry storage | 51 |

| | | |
|------|---|----|
| 2.16 | Activities related to the characterization of spent nuclear fuels by Tractebel | 53 |
| 2.17 | Investigating the Applicability of the Master Curve Concept for Ductile Cast Iron – Early Results for 2 Different Test Temperatures, | 59 |
| 2.18 | An update on metal seal tests performed at BAM and implications for interim storage, | 65 |