



Consultancy Meeting on

nuclear data form and observable for the safe Monitoring, characterization, Dismantling, Decommissioning and Disposal of nuclear fuel and irradiated material from pile, experiment, facility and nuclear power plant

November 2nd – 4th, 2020, IAEA Headquarters, Vienna, Austria

Virtual Event - McDDD

The purpose of the Consultancy Meeting on nuclear data form and observable for the safe Monitoring, characterisation, Dismantling, Decommissioning and Disposal of nuclear fuel and irradiated material from nuclear power plant, pile, experiment and facility is to assess member's needs in terms of research, compilation and assembling of the specific nuclear data forms and observables databases needed for robust nominal and conceptual simulations of time dependant nuclear inventory, radiological characterisation and source terms for the fission, fusion, accelerator, life, earth, research sciences applications.

Agenda 04/10/2020

14:00 – 18:00 CET

Monday November 2nd, Virtual Room

14:00 Welcoming address – Arjan Koning, SH-NDS

Election of chairman and rapporteur Adoption of agenda, administrative matters

Introduction, Scope of the CM - J.-Ch. Sublet, UH-NDSU

14:10 J.-Ch. Sublet (IAEA) "[McDDD white paper](#)"

14:30 Dimitri Rochman (PSI - Switzerland) "[Nuclear data needs for Spent Fuel Characterization: a PSI outlook](#)"

15:00 Young-Ouk LEE (KAERI - Korea) "[Analysis and Validation of SNF Characterization via Ultra-Fine Grid Core Tracking with Improved Nuclear Data](#)"

15:30 Mark D. DeHart (INL - USA) "[Simulation needs for advanced reactor](#)"

16:00 Oscar L. Cabellos de Francisco (UPM - Spain) "[Nuclear Data Needs for characterization of nuclear fuel and irradiated materials](#)"

- 16:30 Benoit Forget (MIT – USA) "[Nuclear Data Issues for High Fidelity, High Performance Reactor Modelling and Simulation](#)"
- 17:00 Luiz Leal (IRSN - France) "[IRSN methods and tools for data needs identification](#)"
- 17:30
- 18:00 End of Day One

Tuesday November 3rd, Virtual Room

- 14:00 Osamu Iwamoto (JAEA - Japan) "[Recent development of nuclear data libraries for nuclear decommissioning and transmutation in the JENDL project](#)"
- 14:30 Anders Sjöland (SKB - Sweden) "[Perspectives and needs for nuclear data activities with a focus on spent nuclear fuel characterization](#)"
- 15:00 J.-Ch. Sublet (IAEA) "[The nuclear data forms and observables of the lesser Gods](#)"
- 15:30 Mark R. Gilbert (UKAEA – United Kingdom) "[Importance of nuclear data for fusion reactor predictions of material activity and waste](#)"
- 16:00 Mark D. DeHart (INL - USA) "[Validation Challenges in Multiphysics Simulations of Advanced Reactors](#)"
- 16:30 Germina Ilas (ORNL - USA) "[Spent Nuclear Fuel Applications: ORNL Validation Experience](#)"
- 17:00 Caleb Mattoon (LLNL - USA) "[LLNL Nuclear Data Needs and GNDS](#)"
- 18:00 End of Day two

Wednesday November 4th, Virtual Room

- 14:00 Kenichi Tanaka (NUPEC – Japan) "[Needs for Nuclear data - Aiming to improve radiological characterization reliability for decommissioning, and disposal of radioactive waste from nuclear power plants](#)"
- 14:30 Greg Bailey (UKAEA – United Kingdom) "[Towards beta-neutrino spectra from complex nuclear inventories](#)".
- 15:00 Oliver Köberl (AXPO – Switzerland) "[A utility perspective Beznau NPP](#)"
- 15:30 A. Ferrari (HZDR - Germany) "[Challenges in shielding design at accelerator systems in special environments](#)"
- 16:00 Bob Grove (ORNL – USA) "[Nuclear M&S Tools and Applications at ORNL and related Nuclear Data Perspectives](#)"
- 16:30 Discussions, Resume
- 17:00
- 17:30 Conclusions
- 18:00 Close of meeting