

3 FEBRUARY 2021 | SNETP FORUM TECHNICAL SESSIONS

#	TS 1 - Long Term operation & Construction	TS 2 - SMRs	TS 3 - Fuel Development and fuel cycle efficiency	TS 4 - Innovative and perspective materials solutions
	Moderators: Pavel Kral (UJV) + Luis Herranz (CIEMAT)	Moderators: Eric Hanus (CEA) & Rob Arnold (BEIS)	Moderators: Steve Napier (NIRO) & Bruno Michel (CEA)	Moderators: Lorenzo Malerba (CIEMAT) + Karl-Fredrik Nilsson (JRC)
1	Implementation of new safety requirements in post-Fukushima period (including LTO considerations) J. Misak (UJV)	Nuward Eric Hanus (CEA)	Closing the nuclear fuel cycle : developments in reprocessing and transmutation fuel CEA - TBC	Additive manufacturing for nuclear applications P. Aubry (CEA)
2	Hydrogen Management Chaumeix, CNRS / Bentaib, IRSN	Nuscale for the Czech Republic Daniel Beneš (CEZ)	Benchmark and improvement of fuel performance codes" Professor Lelio Luzzi (Politecnico MILANO)	Ceramic coatings for nuclear applications F. Di Fonzo (IIT)
3	Innovations in passive safety systems Michael Montout (EdF)	Rolls-Royce SMR in the UK Richard Wain (Rolls Royce)	"Using a basic research approach to improve fuel performance codes" Marjorie Bertolus (CEA) - TBC	High Entropy Alloys for nuclear applications A. Weisenburger (KIT)
4	Presentation of results from the PANAS project Frances Viereckl (TU Dresden)	Execution of first privately funded EU SMR deployment Kalev Kallemets (Fermi Energia)	Thorium cycle Franck Carré?	Alumina forming steels for ATF and GenIV cladding P. Szakalos (KTH)
5	Material research for LTO Oliver Martin (JRC)	ELSMOR Ville Tulkki (VTT)	ATF Stéphane Cachat (Framatome) - TBC	SiC/SiC joining for cladding applications M. Ferraris (Polito)
6	Fluid Structure Interaction: A Multi-Physics Application for Design and LTO Support F. Roelofs (NRG)	Passive safety in SMR Christophe Herrer (IRSN)	Fully Ceramic Microencapsulated Fuel fuel Mark Davis (USNC)	Advanced online monitoring and NDE for nuclear systems M. Rabung (FhG IZFP)
7	LTO economics Nathan Paterson (Foratom)	Experimental support for SMR passive safety systems (SIET)	IRSN FUEL+ software platform to simulate fuel behaviour in accidental conditions Gaétan GUILLARD (IRSN)	Innovation on concrete structures construction Miguel Ferreira (VTT)
8	Leveraging Research and Operational Experience for Plant Upgrades and LTO at Loviisa NPP Harri Tuomisto (Fortum) -TBC	Advanced Modular Reactors for UK Daniel Mathers (NIRO) - TBC	On-line Creep Measurements in INSPYRE Van Til (NRG) - TBC	A way to innovative polymers for nuclear applications: the MAGAPOL initiative Marc Kuntz (EDF)
9	On-going" and/or planned research in the present Spanish context L.E. Herranz (CIEMAT)	EnergyWell - SMR under development in the Czech Republic Marek Ruščák (CVR)	"Spent fuel characterization and evolution until disposal (SFC)" Peter Jansson (UPPSALA)	How to introduce new materials in design codes C. Petesch (CEA)
Bonus		Micro-reactors - an overview Mark Davis (USNC) - TBC	Uranium-Plutonium in a fast reactor cycle - TBC	

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#	TS 5 - Energy Systems, new applications, economy, licensing	TS 6 - Decommissioning & Waste Treatment	TS 7 - Advanced reactor systems	TS 8 - Digitalisation - Modelling and Simulation
	Moderators: Harri Tuomisto (Fortum) & Franck Carré (CEA)	Moderators: Erika Holt (VTT), Anthony Banford (NNL)	Moderators : Paul Schuurmans (SCK-CEN) & Nathan Paterson (Foratom)	Moderators: Ferry Roelofs (NRG), Didier Banner (EDF)
1	Nuclear role in future Energy mixes (Brent Wanner - IEA) - TBC	Fuel cycle closure, D&RDWM Massimo Sepielli (ENEA, Italy) with Sogin and ISIN Regulator views	Status and next activities related to the ALFRED project. Michele Frignani (Ansaldo)	IAEA-EPFL activities on open-source software development Carlo Fiorina (EPFL, Switzerland)
2	New energy systems: load & price following, heat storage - MIT study Dave Petti (MIT) - TBC	Decom waste characterization and tools: MICADO project Massimo Morichini (CAEN, Italy) and CHANCE project, Denise Richard (Andra, France)	Development of Advanced reactor systems : The MYRRHA Project Hamid Ait Abderrahim SCK•CEN	SALOME-MECA: A structural mechanics open-source simulation platform Dominique Geoffroy (EDF, France)
3	Potential of SMR technologies for cogeneration and hybrid energy systems Jean-Michel Ruggieri (CEA) - TBC	Decommissioning and pre-disposal waste handling needs, a French perspective Clement Bosquier (EDF, France)	Development of advanced Gas cooled fast Reactor - V4G4 Allegro project. Petr Vacha ÚJV Řež,	The role of high fidelity numerical simulations, complementary to experiments, for nuclear reactor safety analyses Ed Komen (NRG, the Netherlands)
4	Industrial applications of high temperature reactors and the H2020 GEMINI+ project Dominique Hittner - NC2I	Decom dismantling PLEJADES project, Caroline Chabal (CEA, France) and industry SRA within SHARE project, Christine Georges (CEA, France)	H2020 ESFR-SMART project Konstantin Mikityuk (PSI)	Qualification of System Codes for New Built - Code requirements and model improvement Thorsten Hollands (GRS, Germany)
5	Nuclear hydrogen Michael Fütterer - JRC	Decommissioning of Ignalina NPP, Dmitrij Ekaterinicev & Jurij Sapoval (INPP, Lithuania)	HLM reactor research Paul Schuurmans (SCK•CEN)	Uncertainty Quantification Celine Lascar (Framatome, Germany)
6	Hybrid systems (INL) - TBC	Roundtable discussion - Priorities for Decom R&D cooperative projects (Banford moderator)	New challenges for the SCWR development Marketa Krykova (CVR)	Multi-scale Analysis Antoine Gerschenfeld (CEA, France)
7	New challenges for licensing: design simplifications, commodity components, firmware and software, SMR "mass production", multi-core reactors, EPZ for small and/or inherently safe reactors, safety of cogeneration , etc. (TBD)	Sweden's decommissioning and radwaste perspectives, Andreas Knutsson (Vattenfall, Sweden)	Support to MSR technology Uazir Bezerra de Oliveira (NRG)	Modelling the effect of stationary perturbations onto the neutron flux in nuclear reactors Christophe Demaziere (Chalmers, Sweden)
8	Economics of SMRs in cogeneration systems Alexandre Bredimas / Blazej Chmielarz (USNC) - TBC	Decom waste minimization: INSIDER project, Daniele Roudil (CEA, France) and THERAMIN project on thermal treatments, Matti Nieminen (VTT, Finland)	Allegro Project and update on Gas cooled fast reactor (GFR) technology Branislav Hatala, VUJE, a.s., Slovak Republic	The digital nuclear reactor initiative Chai Koren (EDF, France)
9		Challenges in Decommissioning, a UK perspective, NN (Sellafield site)		UK VRD initiative Albrecht Kyrieleis (Jacobs, UK)
Bonus		Radwaste joint programs: EURAD ROUTES waste streams and WAC, Elisa Leoni (IRSN, France), PREDIS project predisposal waste treatment needs, Erika Holt (VTT, Finland)		Experience of Virtual Reactor Simulators for Loviisa Ville Pitkänen (Fortum, Finland)
		Small inventory program needs in decom and waste management, Andrea Rapić (Krško NPP, Slovakia)		
		Roundtable discussion - Priorities for Radwaste R&D cooperative projects (Holt moderator)		