SYP2022, Paasitorni Congress Centre, Helsinki, 1–2 Nov 2022

CONFERENCE PROGRAM

MONDAY 31 OCTOBER 2022

18.30 – 19.30: Studia Generalia (webinar)

TUESDAY 1 NOVEMBER 2022

TIME	ROOM			
	JUHLASALI – HALL	KARL LINDAHL	SILTASAARI	
09:00 -	10:35 OPENING SESSION			
09:00	Markus Airila, Chairman of the Board, Finnish Nuclear Society Opening of SYP2022	x	x	
09:05	Riku Huttunen, Ministry of Economic Affairs and Employment Greetings from the Government	х	X	
09:35	Jussi Jyrinsalo, Fingrid The future energy system – how to make it work?	х	×	
10:05	Jarmo Tanhua, TVO Lessons Learnt from a New Build Project OL3	х	X	
10:35	Session end Press conference immediately with all keynotes	speakers		

10:35-11:00 Coffee break







TUESDAY 1 NOVEMBER 2022

TIME	ROOM		
	JUHLASALI – HALL	KARL LINDAHL	SILTASAARI
11:00 -	12:15 TECHNICAL SESSIONS		
	Small Modular Reactors in Society	Nuclear Fuel and Materials 1	Fusion Technology
	Chair of session: N.N.	Chair of session: N.N.	Chair of session: N.N.
11:00	Esa Pursiheimo, VTT Investments in Nuclear Heating in Helsinki Metropolitan Area During Volatile Energy Markets	Uffe Bergmann, Westinghouse Additive Manufacturing in Fuel Fabrication	Antti Hakola, VTT Nuclear Technology Activities under ECO-Fusion Project – What is Needed to Design a Fusion Power Plant?
11:25	Matti Kojo, LUT A Small Modular Reactor next door? The opinions of the Finnish-speaking residents of the Helsinki metropolitan area to the distance from a possible SMR unit	Janne Heikinheimo, VTT European collaboration on nuclear fuel behavioural analyses under EU-OperaHPC	Tomas Lindén, Helsinki Institute of Physics Privately funded fusion research status and fusion regulation
11:50	Tomi Lindroos, VTT Prospects of electricity and heat-only SMRs in the Baltic Region	Valtteri Turkki, VTT Implementation and Validation of MOX Fuel Models in FINIX	Tero Tyrväinen, VTT Design-Phase Probabilistic Risk Assessment for the International Fusion Materials Irradiation Facility
12:15	Session end		· ·

12:15-13:30 Lunch







TUESDAY 1 NOVEMBER 2022

TIME	ROOM		
	JUHLASALI – HALL	KARL LINDAHL	SILTASAARI
13:30 –	15:00 PLENARY SESSION		
13:30	Simon-Erik Ollus, Fortum Fortum – strong in nuclear	х	Х
14:00	Tiina Jalonen, Posiva ONKALO® – the First in the World	Х	X
14:30	Juhani Hyvärinen, LUT Thermohydraulics as Science and Its Significance for the Safety and Availability of Nuclear Power	Х	X
15:00	Session end		

15:00-15:40 Coffee break







TUESDAY 1 NOVEMBER 2022

TIME	ROOM		
	JUHLASALI – HALL	KARL LINDAHL	SILTASAARI
15:40 –	17:20 TECHNICAL SESSIONS		
	Small Modular Reactor Projects	From Early Days to Distant Future	Neutronics
	Chair of session: N.N.	Chair of session: N.N.	Chair of session: N.N.
15:40	Silja Häkkinen, VTT	Markus Ahlskog, University of Jyväskylä	Antti Snicker, Aalto University
	EcoSMR - Ecosystem for Small Modular	The prelude to the Finnish nuclear technology	Serpent2 neutronics calculations for a HELIAS
	Reactors	effort	fusion reactor
16:05	Antti Rantakaulio, Fortum	Petri Paju, University of Turku	Jussi Peltonen, VTT
	Fortum and SMRs	Forgetting the nuclear waste repository for	Ongoing Serpent 2 neutronics studies of Jules
		good as the Finnish approach?	Horowitz Reactor
16:30	Joonas Telkkä, LUT	Timothy Schatz, VTT	Lucia Sanchis, Aalto University
	SMR Experiments with the MOTEL Test Facility	Post-closure related responsibilities and plans	Neutronics for DEMO Fusion Power Plant:
	within the Euratom Project McSAFER	of license holders and authorities in Finland on	Serpent2 Modelling of 14.1 MeV Neutrons in
		knowledge and awareness	Reactor Mock-Up Components
16:55	Rebekka Komu, VTT	X	Unna Lauranto, VTT
	Station Blackout Transient Analyses for VTT's		Verification of Ants time-dependent nodal
	SMR Design LDR-50		neutronics model
17:20	Session end		

19:00-23:00: Conference dinner in Paasitorni Congress Centre







WEDNESDAY 2 NOVEMBER 2022

TIME	ROOM		
	JUHLASALI – HALL	KARL LINDAHL	SILTASAARI
9:00 – 1	0:30 PLENARY SESSION		
09:00	Stefano Monti, International Atomic Energy Agency Small Modular Reactors: A new nuclear energy paradigm - How the IAEA is supporting creation of an enabling environment and technology development and deployment	X	X
09:30	Marc Tannenbaum, Electric Power Research Institute Supply Chain Challenges and Opportunities for Advanced Reactors	X	X
10:00	Staffan Qvist, Qvist Consulting Limited The role of nuclear energy in global decarbonization	х	х
10:30	Session end		

10:30-11:00 Coffee break







WEDNESDAY 2 NOVEMBER 2022

TIME	ROOM		
	JUHLASALI – HALL	KARL LINDAHL	SILTASAARI
11:00 -	12:15 TECHNICAL SESSIONS		
	International Collaborations	Nuclear Fuel and Materials 2	Decommissioning
	Chair of session: N.N.	Chair of session: N.N.	Chair of session: N.N.
11:00	Klaus Sjöblom, Fortum	Wade Karlsen, VTT	Olli Soppela, VTT
	WANO - Our window to nuclear world	Procurement of a New A-type Transport Cask	The dECOmm Co-Innovation Project Joins
		for Radioactive Structural Materials	Finnish Nuclear Decommissioning Competences
			for International Market Needs
11:25	Ville Tulkki, VTT	Brahim Dif, VTT	Jesse Lavonen, Fortum
	ELSMOR – towards European Licensing of Small	Re-Evaluation of Cladding Failure Criterion in	Robotics in Decom - Research of Robotic
	Modular Reactors	LOCA within the R2CA EU H2020 Project	Installation Suitable for Clearance
			Measurements of Nuclear Facilities
11:50	Marcus Dahlfors, TVO	Markus Hirvensalo, VTT	Antti Räty, VTT
	The Nuclear Futures Institute and the THOR rig	Development and First Results of a New Finite	Scaling Factor Formation of FiR1
	in North Wales, UK	Element-Based Fuel Temperature Solver for	Decommissioning Waste
		High-Temperature Gas-Cooled Reactors	
12:15	Session end		

12:15-13:30 Lunch







WEDNESDAY 2 NOVEMBER 2022

TIME	ROOM		
	JUHLASALI – HALL	KARL LINDAHL	SILTASAARI
13:30 – 1	15:10 TECHNICAL SESSIONS		
	Enabling Sustainability and Safety Chair of session: N.N.	х	Nuclear Waste Management – Key to Sustainability Chair of session: N.N.
13:30	Timo Okkonen, Kind Atom How to Lead the Owner's Nuclear New-Build Program?	х	Joyce Ang, University of Helsinki Improved hot-particle detection and isotope separation with real-time autoradiography
13:55	Jaakko Leppänen, VTT LDR-50 District Heating Reactor Technology	х	Otto Fabritius, University of Helsinki Sorption of radium on crystalline rocks in various reference groundwater conditions; sorption modeling study
14:20	Pasi Junninen, Platom Nuclear Safety and How it is Ensured	x	Gianni Vettese, University of Helsinki Sr behaviour in Flow-Through Columns Representative of Near-Surface Disposal of Very Low Level Radioactive Wastes
14:45	Ari Vepsä, VTT Comprehensive Aircraft Impact Assessment at VTT Technical Research Centre of Finland	х	Silja Häkkinen, VTT Recent spent fuel research at VTT
15:10	Session end	1	1







WEDNESDAY 2 NOVEMBER 2022

15:10-15:40 Coffee break

TIME	ROOM	
	JUHLASALI – HALL	
15:40 – 1	L6:00 CLOSING SESSION	
15:40	Pekka Jauho award	
16:00	Closing of the Symposium	



