

## CONFERENCE PROGRAM

TUESDAY 29 OCTOBER 2019

18.00 - 19.30: Reception at the City Hall. Address: Pohjoisesplanadi 11-13, 00170 Helsinki

Remember to bring your invitation card

## CONFERENCE PROGRAM

WEDNESDAY 30 OCTOBER 2019

08:00 Registration opens

TIME	ROOM FENNIA I	BALTICA	PRESS ROOM
<b>09:00 – 10:35 OPENING SESSION</b>			
09:00	<i>Opening of SYP2019</i> Tuomas Rantala, Chairman of the Board Finnish Nuclear Society	x	x
09:05	<i>Pathway to climate neutrality: the role of nuclear energy.</i> Riku Huttunen, Director General for Energy Ministry of Economic Affairs and Employment	x	x
09:35	<i>Current activities in Olkiluoto</i> Jarmo Tanhua, CEO TVO Oyj	x	x
10:05	<i>Fennovoima's Hanhikivi 1 project</i> Timo Okkonen, Acting CEO and COO Fennovoima	x	x
10:35	Session end		
10:40	x	x	<b>PRESS CONFERENCE</b>

10:35-11:00 Coffee break

## CONFERENCE PROGRAM

WEDNESDAY 30 OCTOBER 2019

TIME	ROOM FENNIA I	BALTICA	PRESS ROOM
<b>11:00 – 12:20 TECHNICAL SESSIONS</b>			
	<b>Plant operations</b> Chair of session: J. Ala-Heikkilä / J. Kurki	<b>Fuel and materials</b> Chair of session: H. Loukusa / J Heikinheimo	<b>Decommissioning</b> Chair of session: A. Rätty
11:00	M. Heikkilä et al. Experience utilizing Apros simulator in a renewal with digital I&C	W. Karlsen New VTT Hot Cells in Operation	M. Airila et al. Lessons learned during planning and first phases of decommissioning of the Finnish TRIGA FIR 1
11:20	B. Wahlström et al. Human and Organisational Factors in Perspective	J. Heikinheimo et al. High-Temperature Experimental Techniques for Nuclear Fuel Separate Effect Tests	N. Bergh International Decommissioning Planning and Cost Estimating Feedback
11:40	H. Pirkkalainen Utilizing Machine Learning in Nuclear Power Plant Lifecycle Management	H. Loukusa et al. Advanced Cladding Materials for Accident Tolerant Fuels	A. Leskinen et al. Intercalibration Exercise for Difficult-To-Measure Radionuclides in Activated Steel
12:00	M. Hartikainen I&C accelerated ageing and I&C re-engineering	J. Peltonen et al. Coolant-cladding interaction models in FINIX fuel behaviour module	C. Gautier et al. Improvement of different analytical techniques to characterize radionuclides difficult to measure and toxics in nuclear waste
12:20	Session end		

12:20-13:30 Lunch (upper lobby)

## CONFERENCE PROGRAM

WEDNESDAY 30 OCTOBER 2019

TIME	ROOM FENNIA I	BALTICA	PRESS ROOM
<b>13:30 – 14:50 TECHNICAL SESSIONS</b>			
	<b>Plants operations</b> Chair of session: J. Ala-Heikkilä / J. Kurki	<b>Fuel and materials</b> Chair of session: H. Loukusa / J. Heikinheimo	<b>Decommissioning</b> Chair of session: M. Airila
13:30	R. Rintamaa et al. Surveys of development needs for licensing model of nuclear installations in Finland - Main findings and recommendations	C. Huutilainen et al. Jules Horowitz Reactor – the Future of European Materials Testing Reactors	A. Rätty et al. Activity Characterisation Methods in FiR1 Decommissioning Project
13:50	M. Bolander PWR Steam Generator Secondary Maintenance Strategy	S. Jaeckel Fuel Integrity Under Dry And Wet Storage	V. Oinonen Decommissioning of Loviisa NPP
14:10	K. Hassinen Licensing of NP Projects, experiences in Finland	S. Siltanen et al. Simultaneous Reconstruction of Emission and Attenuation in Passive Gamma Emission Tomography of Spent Nuclear fuel	K. Sipilä Digital Twins for Smarter Decommissioning
14:30	J. Lehmuskoski Radiocarbon field measurements at a nuclear facility with cavity ring-down spectroscopy	H. Loukusa Full-core uncertainty analysis of nuclear fuel behavior	P. Juutilainen et al. Impact of Fuel Type and Discharge Burnup on Spent Fuel Properties
14:50	Session end		

14:50-15:30 Coffee break

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WEDNESDAY 30 OCTOBER 2019

TIME	ROOM FENNIA I	BALTICA	PRESS ROOM
<b>15:30 – 16:00 PLENARY SESSION</b>			
15:30	<i>How to ensure competence for safe and efficient operation</i> Tarik Choho, President of EMEA Operating Plant Services Westinghouse Electric Company	x	x
16:00	<i>Lessons Learned from EPR projects</i> Antoine Billerey , EDF Lessons Learned Project Manager for EDF Nuclear New Build EDF	x	x
16:30	<i>Nuclear Power in Future Energy Markets</i> Tiina Tuomela, Executive Vice President Fortum Oyj	x	x
17:00	Session end		

19:00-23:00: Conference dinner at restaurant Sipuli, address: Kanavaranta 7, 00160 Helsinki

## CONFERENCE PROGRAM

THURSDAY 31 OCTOBER 2019

TIME	ROOM FENNIA I	BALTICA	PRESS ROOM
<b>9:00 – 9:30 PLENARY SESSION</b>			
09:00	<i>Future low-carbon electricity systems and uranium resources</i> Luminita Grancea, Nuclear Energy Analyst OECD NEA	x	x
09:30	<i>Nuclear Technology for Space Settlements and Exploration</i> Paolo Venneri, CEO/Director USNC-Tech	x	x
10:00	<i>Development, manufacturing and installation for irradiation the experimental nuclear fuel rods of accident tolerant fuel into MIR reactor</i> Andrey Malgin, Chief Specialist A.A. Bochvar Institute (VNIINM)	x	x
10:30	Session end		

10:30-11:00 Coffee break

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THURSDAY 31 OCTOBER 2019

TIME	ROOM FENNIA I	BALTICA	PRESS ROOM
<b>11:00 – 11:20 TECHNICAL SESSIONS</b>			
	<b>Session title: Waste</b> Chair of session: M. Olin / E. Holt	<b>Session title SMRs</b> Chair of session: H. Suikkanen / J. Hyvärinen	<b>Session title: Science</b> Chair of session: V. Valtavirta / J. Leppänen
11:00	M. Nieminen et al. Development of gasification based thermal treatment of LILW	V. Tulkki ELSMOR - towards Licensing European Small Modular Reactors	J. Sovijärvi Voluntary Radiation Measurement Team
11:20	T. Jalonen Constructing the world's first final disposal facility for spent fuel in Olkiluoto, Finland	K. Värri et al. The Possible Role of Modular Nuclear Reactors in District Heating – Case Helsinki Region	H. Penttilä Independent Fission Yield Studies at the JYFL Accelerator Laboratory
11:40	M. Olin et al. MIND - Development of the Safety Case Knowledge Base about the Influence of Microbial Processes on Geological Disposal of Radioactive Wastes	M. Rämä Flexible nuclear co-generation as a heat supply for district heating	H. Penttilä Nuclear Data activities in EURATOM FP7
12:00	E. Holt et al. PREDIS - Pre-disposal management of radioactive waste	T. Truong et al. Reactor Core Conceptual Design for a Small Modular LUT Heat Experimental Reactor	A. Finet Cevidra cream, a cleansing emulsion for external radionuclides contaminations
12:20	Session end		

12:20-13:30

Lunch (upper lobby)

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13:30	I. Ropponen et al. Loviisa NPP solidification plant - Journey from pre-design to full-scale operation	K. Kallems Achieving 33GWe annual newbuild with startup model and financing	T. Linden et al. Constructing a Farnsworth-Hirsch fusor for neutron generation
13:50	O. Nummi The safety case for Loviisa LILW repository 2018	J. Kalilainen High Temperature Gas-cooled Reactors in a European Electricity Supply Environment; Main Outcomes of a Project in PSI	D. Kaartinen Comparison of Calculation Codes in Radiation Detector Placement and Performance Analysis
14:10	E. Myllykylä Dissolution of spent nuclear fuel - Results from completed EU-project REDUPP and ongoing project DISCO	R. Stahl Gemini+	V. Valtavirta Kraken - the upcoming Finnish reactor analysis framework
14:30	M. Olin et al. EURAD HITEC: Influence of temperature on the behaviour of clay-based material		U. Lauranto Evaluating the fulfilment of control rod related nuclear design bases for an SMR core using the Kraken computational framework
14:50	Session end		

14:50-15:30 Coffee break (upper lobby)



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THURSDAY 31 OCTOBER 2019

TIME	ROOM FENNIA I	BALTICA	PRESS ROOM
<b>15:30 – 17:00 CLOSING SESSION</b>			
15:30	PANEL DISCUSSION What's next for nuclear energy? – Meeting the needs of carbon neutral world  Chair: Jorma Aurela (TEM) Heidi Harle (Helen) Rasmus Pinomaa (Kemianteollisuus ry) Minna Tuomainen (STUK) Harri Tuomisto (Fortum) Paolo Venneri (USNC-Tech)	x	x
17:00	<i>Closing of the Symposium</i> Ville Tulkki, Chairman of the SYP2019 Organizing Committee Finnish Nuclear Society		