

NUCLEAR DAYS 2018



PRAGUE
Czech Republic

ANNUAL FORUM 2018

Industrial perspective for nuclear
energy production



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10-12
April
2018

NUCLEAR DAYS 2018 – NUGENIA ANNUAL FORUM

PRELIMINARY PROGRAMME

DAY 0: Side Project Meetings

9 April, Monday – Afternoon (14:00 – 18:00)

DAY 0 AFTERNOON – PROJECT SESSIONS				
Timing	Session title	Envisaged participation	Room	Max. capacity
14:00 – 18:00	SOTERIA Workshop I			
This session is open to the general public. Please register at no cost here .				
14:00 – 18:00	TeaM CABLES Project Meeting			
This session is limited to the H2020-TeaM Cables project.				
14:00 – 18:00	ATLAS + Advisory Board			
This session is limited to the H2020-Atlas + project.				

DAY 1

10 April, Tuesday – Morning (9:00 – 12:30)

DAY 1 MORNING – NUGENIA GENERAL ASSEMBLY (upon invitation only)	
Timing	Session title
09:00 – 12:30	NUGENIA General Assembly
This session is limited to the legal representatives of each member of NUGENIA association and special invitees.	
09:00 – 12:30	SOTERIA Workshop II
This session is open to the general public. Please register at no cost here .	
09:00 – 12:30	TeaM Cables meeting
This session is limited to the H2020-TeaM Cables project.	
12:30 – 14:00	LUNCH

DAY 1

10 April, Tuesday – Afternoon (14:00 – 18:00)

DAY 1 AFTERNOON – NUGENIA FORUM PLENARY SESSION	
Timing	Session title
14:00 – 18:00	Plenary session
<p>The objective of this session is to allow an open dialogue between policy makers and industrial partners of SNETP and its pillars (NUGENIA, ESNII and NC2I):</p> <ul style="list-style-type: none">- Invited Key notes speakers representing the local host- The international energy agency- The European commission- Leading industries such as Framatome (Germany), TVO (Finland) <p>These stakeholders will be invited to express their views on R&D needs towards a safe, efficient and sustainable nuclear fission energy as low carbon energy source.</p>	
18:15	Cocktail

DAY 2

11 April, Wednesday – Morning (9:00 – 12:30)

DAY 2 MORNING – NUCLEAR DAYS 2018 – TECHNICAL SESSIONS & PROJECT PORTFOLIO		
Timing	Session title	
09:00 – 12:30	Technical Session I – Safety Assessment & Severe Accidents Moderators: P. Kral (UJV), J-P Van Dorsselaere (IRSN)	
<p>This session is open to the call of abstracts that reflect on the on-going R&D&I effort towards:</p> <ul style="list-style-type: none"> • The continuous improvement of safety assessment of existing or future nuclear power plants • The improvement towards more rigorous account of external and internal hazards in NPPs 		
09:00 – 12:30	Technical Session II – Reactor Performance & System reliability (including materials and components) Moderators: L. Malerba and R-W Bosch (SCK-CEN)	
<p>This session is open to the call of abstracts that reflect the on-going R&D&I effort towards:</p> <ul style="list-style-type: none"> • Materials performance for existing and future nuclear systems • Methods and tools to assess the reliability of components • Improvement of reactor performance • Predictive tools to support maintenance and repair • 		
09:00 – 12:30	Technical Session III – Advanced fission reactor – Design / Safety / R&D / Licensing Moderator: N. Camarcat (EDF, ESNII chair)	
9:00 – 9:10	Introduction of the Technical session	Noël Camarcat (EDF)
9:10 – 9:30	The ASTRID Project	N. Devictor (CEA)
9:30 – 9:50	R&D in support to the ASTRID project	J.C Garnier (CEA)
9:50 – 10:10	The Alfred Project	M. Frignani (ANSALDO)
10:10 – 10:30	R&D In support to the ALFRED project	G. Grasso (ENEA)
10:30 – 10:50	The MYRRHA Project	P. Baeten (SCK-CEN)
10:50 – 11:10	R&D In support to the MYRRHA project	M. Schyns (SCK-CEN)
11:10 – 11:30	COFFEE BREAK	
11:30 – 11:50	The ALLEGRO Project	B. Hatala (VUJE)
11:50 – 12:10	R&D In support to ALLEGRO project	L. Belovsky (UJV)
12:10 – 12:30	EU projects and initiatives related to ESNII	R. Garbil (EC-RTD)

09:00 – 12:30	Technical Session IV – Fuel Innovation, decommissioning and SMRs	
<p>This session is open to the call of abstracts that reflect the on-going R&D&I effort towards:</p> <ul style="list-style-type: none"> • New highly efficient fuels • Accident tolerant fuels • Decommissioning methodology and tools • New designs of SMR • Innovative concepts 		
TBC	US programme of qualification of HTGR fuel (TBC)	F. Southworth (Areva US)
12:30 – 14:00	LUNCH	

DAY 2

11 April, Wednesday – Afternoon (14:00 – 18:00)

DAY 2 AFTERNOON – NUCLEAR DAYS 2018 – PROJECT IDEAS & STRATEGY		
Timing	Session title	
14:00 – 18:00	Technical Session V – Digitalisation modelling and simulation	
<p>This session is open to the call of abstracts that reflect the on-going R&D&I effort towards:</p> <ul style="list-style-type: none"> • Predictive modelling methods of physical phenomena in NPPs • Efficient and validated computer simulation tools and platforms • Digitalisation of components and systems • 		
14:00 – 18:00	Technical Session VI – New project ideas in nuclear fission technology	
	Moderators: E. Keim (Framatome GmbH, NUGENIA), M. Serrano (Ciemat, EERA-JPNM)	
<p>This session is open to all new ideas/ proposals towards R&D&I for improved fission technology (from light water reactors to GENIV systems). The EERA JPNM call for pilot projects will also be presented during this session.</p>		
14:00 – 18:20	Technical Session VII – Common vision towards more sustainable nuclear energy	
	Moderator: S. Napier (NNL)	
<p>This session will provide the opportunity to present the vision/ plans /roadmap of European platforms/associations dealing with nuclear and to discuss the future of nuclear energy on the long term.</p>		
14:00 – 14:45	Introductory Elements of context	
14:00 – 14:15	Introduction: SET Plan	EC
14:15 – 14:30	Nuclear Innovations 2050 – results and follow-up	OECD

14:30 – 14:45	UK SMR Competition	BEIS
14:45 – 15:45	Strategic Planning of SNETP & EERA-JPNM on the long term	
14:45 – 15:00	EERA JPNM SRA: Presentation	L. Malerba (SCK-CEN, EERA JPNM)
15:00 – 15:15	NUGENIA Roadmap: Presentation	E-K Puska (VTT, NUGENIA)
15:15 – 15:30	The first 15 years of the ENEN Association: the motivation for the next 15 years	L. Cizelj (JSI, President of ENEN)
15:30 – 15:45	Coffee Break	
15:45 – 17:20	HTGR Technology for cogeneration and non-electric applications of Nuclear Energy	
15:45 – 16:00	Towards HTGR Deployment in Poland	G. Wrochna (NCBJ)
16:00 – 16:15	Introduction of the Session: News on nuclear cogeneration worldwide	M. Fuetterer (EC-JRC) – TBC
16:30 – 16:45	Cogeneration and HTGR related activities at IAEA	F. Reitsma (IAEA) – TBC
16:45 – 17:00	First results from GEMINI +: HTGR Design Options	J. Lillington (Wood)
17:00 – 17:15	R&D needs for HTGR licensing an construction	D. Hittner (LGI)
17:15 – 17:30	Coffee Break	
17:30 – 18:20	Managing Nuclear Energy on the long term: Radiation Protection & Geological Disposal	
	IGD – TP	
	Radiation Protection Platforms	
16:00 – 18:00	Coordinator’s session on best practices Moderator: A. Al-Mazouzi (EDF, NUGENIA)	
<p>This session intends to create an “exchange Hub” between all coordinators of the EURTOM projects with the objectives to:</p> <ul style="list-style-type: none"> • Exchange feedback and experiences on the difficulties to coordinate an European project • Discuss the best practices towards an efficient coordination • ... 		
20:00	Gala dinner	

DAY 3

12 April, Thursday – Morning (9:00 – 12:30)

DAY 3 MORNING – NUCLEAR DAYS – PLENARY SESSION	
Timing	Session title
9:00 – 10:00	Keynote Presentations
This session will bring a new insight regarding the safety and implementation of SMRs	
10:00 – 11:20	Outcomes of the Morning Technical Sessions on on-going Projects
11:20 – 11:30	Q & A Session
11:30 – 11:40	Coffee Break
11:20 – 12:30	Outcomes of the afternoon technical sessions on future ideas
12:20 – 12:40	General conclusion

DAY 3 MORNING – SIDE PROJECT SESSIONS	
Session title	
9:00 – 12:30	GEMINI + Parallel Sessions

DAY 3

12 April, Thursday – Afternoon (14:00 – 18:00)

DAY 3 AFTERNOON – NUCLEAR DAYS – TA & PROJECT SESSIONS		
14:00 – 17:00	R&D on materials for GEN IV reactors (ESNII, NC2I, EERA-JPNM)	
14:00 – 14:05	Welcome	ESNII Chair / Vice Chair
14:05 – 14:15	MoU SNETP and EERA JPNM: Objectives & Opportunities	L. Malerba (SCK-CEN)
14:15 – 14:30	ASTRID material issues	J-C. Garnier or A.Vasile (CEA)
14:20 – 14:40	MYRRHA material issues	M.Schyns (SCK-CEN)
14:40 – 15:00	ALFRED material issues	M.Frignani (Ansaldo)
15:00 – 15:15	JPNM/SP1 activities: GEMMA project and pilot on 60yrs design lifetime	K-F.Nilsson (JRC)
15:15 – 15:30	JPNM/SP5/6: INSPYRE project and issue of exchange of deliverables	M. Bertolus (CEA)/M. Cologna (JRC)
15:30 – 15:45	Discussion	All
15:45 – 16:00	COFFEE BREAK	
16:00 – 16:15	ALLEGRO material issues	L. Belovski
16:15 – 16:30	NC2I/HTR material issues	NC2I
16:30 – 16:45	X-cutting issues GFR/HTR materials	J. Kalivodová (with M. Serrano & M. Angiolini)
16:45 – 17:00	Open Discussion	
14:00 – 18:00	NUGENIA TA4 Projects Joint Session (SOTERIA, ADVISE, NOMAD, MEACTOS, INCEFA +, Atlas+)	
This session is open to the general public. Please register at no cost here.”		
14:00 – 18:00	NUGENIA TA1 Meeting – P. Kral (UJV)	
14:00 – 18:00	NUGENIA TA6 Meeting – E. Hanus (CEA)	
14:00 – 18:00	GEMINI + Parallel Sessions & NC2I TF Meeting	

DAY 4 : Side Project meeting

DAY 4 MORNING – GEMINI + PROJECT MEETING	
9:00 – 12:30	GEMINI + Project Meeting
This session is limited to the H2020-GEMINI + project	