

ACES Project Mid-term Workshop 7. – 9. 11. 2022, Řež – Prague

Programme		
Monday 7. 11. 2022		
Visit to Research Centre Řež		
8:00 – 9:15	Registration in KC ÚJV	
9:15 – 9:25	General welcoming	
9:30 – 12:00	Visit to facilities	
12:00 – 13:00	<i>Lunch</i>	
1st Presentation session – EUG view		
13:00 – 13:15	General welcoming	
EUG talk Session I.		
13:15 – 13:40	LTO in Czech Republic and regulatory requirements in ageing management	Antonín Kříž (SÚJB)
13:40 – 14:05	Ageing of concrete and beyond that during LTO	Pekka Välikangas (STUK)
14:05 – 14:30	Containment liner issues – Operational experiences Ringhals NPP – Unit 3	Johanna Spåls (Vattenfall)
14:30 – 14:55	Ageing management and monitoring of concrete structures at CEZ NPPs	Jan Stepan (ÚJV/ČEZ)
14:55 – 15:15	<i>Coffee break</i>	
EUG talk Session II.		
15:15 – 15:45	Perspective on ageing of concrete infrastructure and the challenges for LTO regarding concrete infrastructure	Madhumita Sircar (US NRC)
15:45 – 16:15	Challenges and Lessons Learned from LTO Implementation for Civil Infrastructure	Samuel Johnson (EPRI)
16:15 – 16:45	Irradiation impact of concrete cores from the biological shields of Oskarshamn 1 and 2	Ulrik Brandin (Oskersham)
18:00 – 21:00	Project dinner at the Vienna House Diplomat Hotel	



Tuesday 8. 11. 2022		
2nd Presentation session – ACES working progress		
9:00 – 9:05	General welcoming and Agenda	
ACES WP5 Session		
9:05 – 9:30	Progress report on Mesoscale numerical simulation	Yuliia Khmurovska (CTU)
9:30 – 9:55	Pre- and post-irradiation characterization of irradiated aggregates in CVŘ	Alica Fedoriková (CVŘ) Patricie Halodová (CVŘ)
9:55 – 10:20	Neutron transport, gamma irradiation and NDT of ACES samples	Petr Štemberk (CTU)
10:20 – 10:45	Concrete damage under radiation - modelling approach	Kari Kolari (VTT)
10:45 – 11:00	<i>Coffee break</i>	
ACES WP4 Session		
11:00 – 11:25	IRSN experiments on biaxial creep test at moderate temperature	Georges Nahas (IRSN)
11:25 – 11:50	Creep and shrinkage concrete database covering 1700+ mixes	Vít Šmilauer (CTU)
11:50 – 12:15	Constitutive behaviour of VERCORS concrete in severe accident situation.	Herman Koala (EDF)
12:15 – 13:15	<i>Lunch</i>	
3rd Presentation session – ACES working progress		
ACES WP3 Session		
13:15 – 13:40	Microstructural and mineralogical characterization of concrete subjected to ASR and DEF	Tri Phung Qoc (SCK/CEN)
13:40 – 14:05	Interaction between the swelling due to ISR and creep due to bi-axial compression constraints	Georges Nahas (IRSN) Rita Tabchoury (IRSN)
14:05 – 14:30	Ongoing study of the correlation of expansion between large mock-ups and laboratory specimens for ASR and DEF	Yushan Gu (VTT)
14:30 – 14:45	<i>Coffee break</i>	





**Towards Improved Assessment
of Safety Performance for LTO
of Nuclear Civil Engineering Structures**

ACES WP2 Session		
14:45 – 15:10	Crevice experiments	Valdir De Souza (SCK CEN)
15:10 – 15:35	PEC techniques and experiments	Sokratis Iliopoulos (ENGIE)
15:35 – 16:00	Phenomenological modelling of embedded steel corrosion in concrete	Elina Huttonen-Saarivirta (VTT) Anssi Laukkanen (VTT)
16:00 – 16:30	Closing of workshop	

Wednesday 9. 11. 2022 Project WP meeting	
Technical meetings (It will take place in the premises of the Research Centre Řež)	
8:30 – 11:30	Work-package meetings WP 2, WP4 and WP5
11:00 – 12.00	Lunch
12:00 – 15:00	Work-package meetings WP3



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