



Workshop on Post Irradiation Examination (PIE)

26-30 August 2024

Conference Centre ÚJV

Centrum Výzkumu Řež, Hlavní 130, 250 68 Husinec-Řež

PROGRAMME			
Day 1 – Monday 26 th August 2024		Presenter/Institution	time
Introduction	Registration		09:00-10:00
	Welcome (Programme of the workshop; CVR introduction)	Michaela Krýdová / CVŘ Ondřej Srba / CVŘ	10:00-10:30
	Importance of irradiation experiments for safety and reliability assessment	Jan Klouzal / ÚJV	10:30-12:00
Safety	Lunch		12:00-13:00
	Regulatory framework for new nuclear reactors in the Czech Republic	Štěpán Kochánek / SÚJB	13:00-13:40
	Dosimetry	Jakub Beinstain / CVŘ	13:40-14:10
Neutron Irradiation	Coffee break		14:10-14:30
	Basic terms, Introduction	Sebastian Nývlt / ČVUT	14:30-15:10
	Irradiation in Research Reactors (Opportunities, procedures, construction of irradiation rigs – experiences, etc)	Jaroslav Šoltés / CVŘ Miroslav Vins / CVŘ Jan Vít / CVŘ	15:10-16:10
Day 2 – Tuesday 27 th August 2024		Presenter/Institution	time
Proton Irradiation and testing of irradiated materials	Morning Coffee		08:00-09:00
	Degradation mechanisms	Radim Kopřiva / ÚJV	09:00-9:40
	Proton irradiation as a surrogate for early neutron radiation damage	Jarmila Degmová / STUBA UJF AV ČR	09:40-10:10
	TANDETRON: Introduction (proton irradiation)		10:10-10:40
	Hot Cells incl. newly developed methods	Alica Fedoriková / CVŘ	10:40-11:10
	Mechanical properties of irradiated structural materials and tests (Inc. Testing in environments simulating PWR, SCW, etc.)	Mariia Zimina/Uni Bristol	11:10-12:00
Excursion	Lunch		12:00-13:00
	Hot Cells (SUSEN) Centre of Highly Sensitive Analytical Instruments		
	Dinner (the latest train from Řež at 17:23)		



Day 3 – Wednesday 28 th August 2024		Presenter/Institution	time
Excursion	Morning Coffee		08:00-09:00
	Excursion LVR15		
	Excursion TANDETRON		
Examination of materials damage	Lunch		12:00-13:00
	Analysis of the irradiated microstructure	Pavel Zháňal / CVŘ	13:00-13:40
	Accelerated Irradiation, Mechanical Testing and Microstructure Characterization of Advanced Reactor Candidate Cladding Materials	Hygreeva Namburi/CNL	13:40-14:10
	Coffee break		14:10-14:30
PIE application	Material research with a focus on advanced and future nuclear technologies (past, current and future projects → main points of interest)	Leoš Křivský / CVŘ Monika Šípová / CVŘ	14:30-15:10
	Surveillance programme	Radim Kopřiva / ÚJV	15:10-16:00
Day 4 – Thursday 29 th August 2024		Presenter/Institution	time
PIE application	Morning Coffee		08:00-09:00
	PIE of nuclear fuel.	Václav Tyrpekl / Faculty of Science Charles University	09:00-9:40
	The current state of nuclear fuel and its inspection possibilities.	Marcin Kopec / CVŘ	09:40-10:20
	Digital image processing for fuel inspection.	Jan Blažek / CVŘ	10:20-11:00
	Long-term operation of currently operated NPP.	Vladimir Slugeň / STUBA	11:00-12:00
	Lunch		12:00-13:00
	Concrete Biological Shield in New Build and Service Life Extension of NPPs	Petr Štemberk / CTU	13:00-14:00
Pre-characterization and Post-Irradiation Examination of Components of Concrete Biological Shield at CVR	Kamil Sobek / CVŘ	14:00-15:00	
Prague guided tour (the latest train from Řež at 15:23)			



Day 5 – Friday 30 th August 2024		Presenter/Institution	time
Excursion	<i>Bus at Holešovice nádraží Metro station (will be specified on Monday)</i>		8:30-9:00
	VRABEC University reactor	ČVUT	
	Final discussion		
	Wrap Up		
<i>Lunch in the Prague centre</i>			12:00-14:00

** The time slots are indicative. The Programme can be slightly changed according to the needs.*