

Summer Workshop 2017

Uncertainty and sensitivity in safety analysis

July 10 – 14, 2017



ETSON JSP Summer Workshop 2017

The ETSON JSP Summer Workshop is an annual networking event of young professionals from Technical Safety Organizations. Technical program comprises presentations given by participants, interactive group work and moderated workshops on a specific topic.

The workshop encourages inter-cultural interaction, exchange of expert knowledge and good practices and provides to participants a good opportunity to spread their professional network.

Participation to the workshop is free of charge. Participants must be nominated by ETSON member organizations and should have basic knowledge of nuclear safety concepts and methodologies. Candidates are encouraged to contact local ETSON members. Information about the representative information is available at: <u>http://www.etson.eu/jsp</u>.

Technical Tours

A technical visit to JSI TRIGA reactor with hot cell, ICJT exhibition, Reactor engineering division laboratory and to ARAO radioactive waste repository is scheduled for this year.

Venue

The Workshop will be held at the Reactor Centre of the Jožef Stefan Institute near Ljubljana, Slovenia. Public transport from the Ljubljana city to the Reactor centre is available by the city and/or regional bus.

Hotel Accommodation

Block bookings have been arranged in The City Hotel Ljubljana at discount prices guaranteed **till June 5**.

For July 9, welcome get together is planned at 19:00.

For further information, please contact mitja.ursic@ijs.si martin.draksler@ijs.si



Reactor centre of the Jožef Stefan Institute in Brinje near Ljubljana

👝 - Ljubija	te Ina, Slovenija		July 10-14, 2017		ETSO
	Monday	Tuesday	Wednesday	Thursday	Friday
	OPENING	PROBABILISTIC SAFETY ASSESSMENT	TECHNICAL VIST AT THE REACTOR CENTER	TECHNICAL VISTS AT THE REACTOR CENTER	BEST ESTIMATE APPROACH
09.00–10.30	Welcome speech	Chair: O. Kukhotskyi, SSTC NRS	(ARAO radioactive waste repository)	(TRIGA reactor with hot cell, ICJT exhibition, Reactor engineering division laboratory)	Chair: T. Kaliatka, LEI
	JSI	Treatment of Uncertainties in Risk-Informed Decision			Application of the GRS-Method for the determ
	ETSON organization and award	Making O. Kukhotskyi, SSTC NRS			of uncertainties in German PWR-accident anal V. Koppers, GRS
	S. Lavergne, IRSN				
	General presentations by ETSON members T. Arnold, AMEC Foster Wheeler	Analysis of additional risks associated with tornado impact on NPP building structures <i>P. Matchenko, SSTC NRS</i>			A new statistical approach to the LOCA-Analysi the Best Estimate Plus Uncertainty (BEPU)-Me S. Palazzo, GRS
	F. Russo, BelV A. Cervone, ENEA	Insights of sensitivity analyses performed for internal			Application of best estimate approach for
	A. Lazaar, GRS	hazards			different nuclear fission and fusion facilities
	J.J. Ingremeau, IRSN M. Uršič, JSI	A. Malkhasyan, BelV			T. Kaliatka, LEI MINI-WORKSHOP (organized by GRS and
	G. Arbaev, SEC NRS				Wildl-WORKSHOP (Diganized by Gr5 and
	I. Iarmosh, SSTC NRS				
10.30-11.00	Coffee break	Coffee break	Coffee break	-	Coffee break
11.00-12.30	INVITED Chair: M. Uršič, JSI	PROBABILISTIC SAFETY ASSESSMENT Chair: O. Kukhotskyi, SSTC NRS	MINI-WORKSHOP (organized by JSI)		MINI-WORKSHOP (organized by GRS and
	Uncertainty in probabilistic safety assessment dr. A. Volkanovski, JSI	Treatment of Uncertainties in PSA for Aging Facilities T. Arnold, AMEC Foster Wheeler			
		SEVERE ACCIDENTS			CLOSURE
	Uncertainty quantification of loss of coolant accident deterministic safety analysis	Chair: A. Lazaar, GRS			
	dr. A. Prošek, JSI	Uncertainty and sensitivity analysis on a COCOSYS-			
		AIM calculation of the PHEBUS test FPT1 S. Beck, GRS			
12.30-13.30	Lunch	Lunch	Lunch	Lunch	Lunch
13.30–15.00	DATA EVALUATION Chair: V. Radulović, JSI	REACTOR CORE Chair: A. Lazaar, GRS	Tour to Ljubljana	SAFETY ANALYSIS Chair: G. Arbaev, SEC NRS	DEPARTURES
	Statistical Setpoint Study for safety critical instrumentation	Accounting of uncertainties in nuclear safety assessment for nuclear fuel handling systems, using		Uncertainty in code qualification J.J. Ingremeau, IRSN	
	Z. El Hadhri, Bel V	SERPENT		The uncertainty and which is the formation of the	
	Nuclear data uncertainty analysis with the GRS Code	S. Sinegribov, SEC NRS		The uncertainty evaluation in the framework of the safety analysis calculations for the nuclear	
	XSUSA	STRIGA - Multipurpose tool for TRIGA research		installations	
	F. Bostelmann, GRS	reactors D. Ćalić, JSI		D. Yashnikov, SEC NRS MINI-WORKSHOP (organized by SEC NRC)	
	Mathematical aspects of nuclear data covariance				
	matrix preparation - an example of delayed neutron data				
	S. Tarride, JSI				
	Validation of nuclear cross-sections through				
	activation measurements at the JSI TRIGA reactor V. Radulović, JSI				
15.00-15.30	Coffee break	Coffee break		Coffee break	1
	CLEARANCE AND WASTE MANAGEMENT Chair: F. Russo, Bel V	COMPUTATIONAL FLUID DYNAMICS Chair: M. Draksler, JSI		MINI-WORKSHOP (organized by SEC NRC)	
	Clearance measurements and methodologies F. Russo, Bel V	Application of the OSE method for uncertainty and sensitivity analysis of CFD simulations <i>M. Tekavčič, JSI</i>			
	Sensitivity of Safety Analyses for Radioactive Waste	Statistical uncertainty in CFD – Application to DNS			
15.30-17.00	Managamant with Despect to Uncertainting of their	Statistical uncertainty in CFD – Application to DNS			
15.30–17.00	Management with Respect to Uncertainties of their Radionuclide Inventory	and LES			
15.30–17.00		· · · ·			
15.30–17.00	Radionuclide Inventory	and LES			
15.30–17.00	Radionuclide Inventory I. Iarmosh, SSTC NRS	and LES			