

Research & Innovation Action

NFRP-2019-2020

PUMMA Project Workshop 'Fuel Cycle Scenarios'

Draft agenda

Version N°1





Hybrid event: Hosted by CIEMAT (Madrid) + online

Day 1 (2 November 2021)			
9:00	Session 1: Introduction		
9:00	Introduction of CIEMAT (15')	F. Alvarez-Velarde/A. V. Skarbeli/E. M. González-Romero	CIEMAT
9:15	Organization (5')	F. Alvarez-Velarde	CIEMAT
9:20	Overview PUMMA (30')	N. Chauvin	CEA
9:50	What is a nuclear fuel cycle? (30' + 5' questions)	A. V. Skarbeli	CIEMAT
10:25	Interactions between nuclear and renewable energy sources (25' + 5' questions)	TBC	CEA
10:55	Coffee break (15')		
11:10	Session 2: National and International Plans		
11:10	National plans (5 short presentations?) (15' + 5' questions)	F. Courtin/E. González or F. Alvarez-Velarde/P. Romojaro-V/R. Taylor-V/ S. Hakkinen	CEA/CIEMAT/SCK·CEN/UK/VTT
12:50	Lunch break (70')		
14:00	OECD/NEA Expert Group on Advanced Fuel Cycle Scenarios (25' +5' questions)	G. Grassi-V	OECD
14:30	IAEA fuel cycle activities (25' +5' questions)	A. González-Espartero	IAEA
15:00	Session 3: Simulation codes		
15:00	Example of a code: NFCSS (25' + 5' questions)	K. Agarwal-V	IAEA
15:30	Codes review (25'+5' questions)	F. Courtin	CEA
16:00	Benchmark NEA (25' + 5' questions)	B. Carlier	Framatome





16:30	The FIT project (25' + 5' questions)	N. Thiollière	CNRS
17:00	End of day		

Day 2 (3 November 2021)			
9:00	Session 4: Modelling		
9:00	Reactor (25' + 5' questions)	M. Szieberth	BME
9:30	Facilities (25' + 5' questions)	R. Hughes-V	NNL
10:30	Session 5: Uncertainties + Optimization		
10:30	State of the art (20' + 5' questions)	M. Ernoult	CNRS
10:55	Coffee break (15')		
11:10	Monte Carlo (20' + 5' questions)	P. Romojaro	SCK·CEN
11:35	Sensitivity (20' + 5' questions)	TBC	
12:00	Scenario disruption (20' + 5' questions)	M. Ernoult	CNRS
12:25	Optimization + Uncertainties (30' + 5' questions)	A. V. Skarbeli	CIEMAT
13:00	Lunch break (90')		
14:30	Session 6: Machine learning		
14:30	Artificial neural networks (25' + 5' questions)	TBC	CNRS
15:00	Unsupervised learning (25' + 5' questions)	A. V. Skarbeli	CIEMAT
15:30	Session 7: NNN PhD presentations (15' + 5' questions)		
15:30	PhD 1 on ... (15' + 5' questions)	TBC	
15:50	PhD 2 on ... (15' + 5' questions)	TBC	
16:10	...		
16:30	PhD n on ... (15' + 5' questions)	TBC	
16:50	End of Workshop		

