

Advanced Reactor Modeling and Simulation Workshop #2

EPRI Charlotte Campus - Building 2; 1300 West W.T. Harris Blvd; Charlotte, NC 28262

January 24-25, 2017; 7:30 a.m. to 6:00 p.m.

AGENDA

January 24, 2017

7:30		Registration and Continental Breakfast	
8:00	1	Welcome	Neil Wilmshurst (EPRI CNO & Nuclear VP) Shane Johnson (DOE-NE)
	2	Logistics and Safety Message Introductions/Purpose Overview of Gap Analysis & Workshop Agenda	Andrew Sowder (EPRI) Rita Baranwal (GAIN) Chris Stanek (NEAMS)

Session 1: Legacy Tools

8:30	3	Fast Reactor Codes	Tanju Sofu
	4		Tom Fanning
9:30		Break	
10:00	5	Gas Reactor Codes	Hans Gougar
11:00	6	MSR and Fluoride-Salt Cooled HTR Codes	Brian Ade
Noon	7	Lunch (Hosted by EPRI) - CASL Overview	Jess Gehin

Session 2: Advanced Tools

1:15	8	Introduction to NEAMS	Chris Stanek
1:30	9	NEAMS Workbench	Brad Rearden
2:30	10	Introduction to SHARP	Tanju Sofu
2:40	11	SHARP Neutronics (Proteus)	Changho Lee
3:20		Break	
3:40	12	SHARP CFD (NEK5000) & Flow Induced Vibration	Elia Merzari
4:40	13	SHARP Multiphysics	Tanju Sofu
5:20	14	SAM (Systems Analysis Module)	Rui Hu
5:50		Adjourn	
6:00		Poster Session & Reception (Hosted by EPRI)	

January 25, 2017

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January 25, 2017

7:30	Continental Breakfast	
8:00	Welcome	Andrew Sowder (EPRI)

Session 2: Advanced Tools - continued

8:10	15	RELAP-7	Rich Martineau
8:50	16	Introduction to NEAMS Fuels Modeling	Steve Hayes
9:00	17	Macroscale Fuels Modeling (BISON)	Jason Hales
10:00		Break	
10:30	18	Mesoscale Fuels Modeling (MARMOT)	Yongfeng Zhang
11:00	19	Atomistic Fuels Modeling	David Andersson
Noon	20	Lunch (Hosted by EPRI) - EPRI Risk & Safety Management Program	Kelli Voelsing
1:15	21	Cross-Cutting Capabilities for Depletion, Nuclear Data, and Uncertainty Quantification	Brad Rearden
2:15	22	Monte Carlo Capabilities (Shift)	Tom Evans
3:00		Break	

Session 3: Licensing Needs

3:30	23	Discussion on modeling and simulation to support regulatory review and licensing	Steve Bajorek
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Session 4: Gateway for Accelerated Innovation in Nuclear

4:15		Gap Analysis Summary	Chris Stanek
5:00		GAIN Opportunities	Rita Baranwal
5:30		Closing Remarks / Adjourn	Shane Johnson