

Tuesday, December 1, 2020

Time	Event	Speaker
10:00 - 10:05 am	Welcome from EPRI INFUSE/FES	D. Youchison (ORNL)
10:05 - 10:15 am	Goal of the workshop/Logistics	A. Diallo (PPPL)
10:15 - 12:30 pm	EPRI Fusion Forum kickoff and introduction	A. Sowder (EPRI)
	Quick overview of EPRI focus on advanced (fission) reactors	A. Sowder (EPRI)
	Heat island vs balance of plant	H. Charkas(EPRI)
	Role government vs industry	A. Sowder (EPRI)
	Advanced power conversion technologies	A. Maxson (EPRI)
	Techno-economic assessment and costing	N. Kern (EPRI)
12:30 - 1:15 pm	Break	
1:15 - 2:35 pm	INFUSE Participants - Presentations [PIs, (7+3) mn each]	
	Recent Progress in Equilibrium and Stability of Advanced FRCs	S. Dettrick (TAE)
	The recent progress of high harmonic fast wave (HHFW)	X. Yang (TAE)
	Doppler-Free Saturation Spectroscopy (DFSS) for Magnetic and Electric Field Measurements in an FRC plasma	D. Gupta (TAE)
	3D MHD Simulations Support for PJMIF	D. Witherspoon (Hyper Jet Fusion)
	Simulations of a stable helical shear-flow stabilized plasma jet	S. You (Helicity Space)
	Ripple-induced alpha loss calculations by ASCOT and SPIRAL	A. Creely (CFS)
	AC loss measurements for SPARC cables --- sample preparation	C. Sanabria (CFS)
	Preliminary results from high heat flux divertor component testing	D. Brunner (CFS)
	SPARC Divertor Plasma Simulations	D. Brunner (CFS)
2:35 - 2:45 pm	Break	
2:45 - 3:00 pm	Brief update NAS report	R. Hawryluck (PPPL)
3:00 - 3:15 pm	Brief overview FIA	A. Holland (FIA)
3:15 - 4:15 pm	Round Table - APS; Duke Energy; OPG; Southern	R. Umstatted (FIA) (Moderator) H.Jackson;A. Reichenbach;G. McCabe; L. Lathem
4:15 - pm	Closing Remarks - Adjourn	A. Diallo (PPPL)

Wednesday, December 2, 2020

Time	Event	Speaker
10:00 - 10:05 am	Welcome and Logistics	A. Diallo (PPPL)
10:05 - 10:35 am	INFUSE Program - Updates	D. Youchison (PPPL)
10:35 - 11:00 am	Brief overview ARPAAe (capabilities teams)	S. Hsu (ARPA-E)
11:00 - 11:45 am	Overview Lab capabilities	
	Accessing ORNL Supercomputing Resources	S. Tichenor - ORNL
	High Temperature Testing of HTS Cables and Coils in 10 T Dipole Field	R. Gupta - BNL
	Hydrogen Science and Materials Characterization Capabilities	R. Kolasinski - SNL
	Developing the Fusion Research & Technology Hub (FuRTH)	A. Diallo - PPPL
	Tritium R&D Activities	J. Klein - SRNL
11:45 - 1:15 pm	Break - Participants will use assigned breakout room for further discussion	
1:15 - 2:10 pm	R&D Opportunities at EPRI (45 mn + 10 mn QA)	
	Adv. materials and manufacturing - moving R&D to demonstration	M. Albert (EPRI)
	Collaborative support for supply chain dev.: A-USC experience	J. Shingledecker (EPRI)
	Tritium supplies	Terry Campkin (OPG)
2:20 - 2:45 pm	Perspectives on supply chain dev. for new energy generation technologies	G. Clark (Teledyne-Brown Engineering)
2:45 - 2:55 pm	Closing remarks - Adjourn (Feedback form)	A. Diallo (PPPL)
2:55 - 4:00 pm	Breakout rooms will be available for further discussion	

Registration : <https://infuse.ornl.gov/news/reminder-2021infuse-workshop/>