

Tuesday - July 8

Starting time	Duration (minutes)	Title	Presenter
9:00	0:10	BNL Welcome	Alejandro Sonzogni (BNL)
9:10	0:15	Workshop Goals	Dave Brown & Gustavo Nobre (BNL)
9:25	0:30	Qualifying Graphite for Reactor Applications: A Materials Perspective	Dominic Piedmont (BNL)
9:55	0:30	Discussion about material characterization	All
10:25	0:15	Coffee break	
10:40	0:20	NNL Perspective of Reactor-grade Graphite	Mike Zerkle (NNL)
11:00	0:30	Updates to the HTR-PROTEUS HALEU Benchmark Using Modern Analysis Methodologies	Javier Ortensi, Volkan Seker and John Bess (INL)
11:30	0:30	Thermal Scattering Law Impact on BWXT Advanced Nuclear Reactor	Chase Lawing, Matthew Nash and Gabriel Lentchner (BWXT)
12:00	1:20	Lunch	
13:20	0:30	Discussion about users' perspectives	All
13:50	0:20	Physics of Phonons in Graphite: Integrating Inelastic Neutron Scattering Measurements and First-Principles Calculations	Iyad Al-Qasir (ORNL)
14:10	0:30	Machine learned atomistic modeling of porosity in nuclear graphite	Kemal Ramic (ORNL)
14:40	0:30	Investigation and Evaluation of Thermal Neutron Scattering in Nuclear Graphite	Ayman Hawari (TAMU)
15:10	0:20	Coffee break	
15:30	0:20	Overview of historical and new transmission measurements of nuclear graphite	Chris Chapman (ORNL)
15:50	0:20	Investigating the Impact of Fast Neutron Radiation Damage on Graphite Lattice Dynamics	Iyad Al-Qasir (ORNL)
16:10	1:10	Discussion about modeling and evaluation approaches	All
17:20	0:05	Closing of Day 1	
18:30		No-host dinner	

Wednesday - July 9

Starting time	Duration (minutes)	Title	Presenter
9:00	0:30	Integral Benchmarks for Graphite TSL Validation	Catherine Percher (LLNL)
9:30	0:20	Deimos and Graphite TSLs	Nick Thompson (LANL)
9:50	0:20	Modernization of Historical Graphite Measurements and Techniques	Benjamin Wang (RPI)
10:10	0:20	ORNL testing of multiple graphite benchmarks	Travis Greene (ORNL)
10:30	0:20	Coffee break	
10:50	0:30	Benchmark and Validation of Thermal Neutron Scattering in Nuclear Graphite	Ayman Hawari
11:20	0:10	Discussion about Validation	All
11:30	0:10	Group picture	
11:40	0:30	Discussion about Validation	All
12:10	1:20	Lunch	
13:30	1:00	Discussion about validated graphite library requirements to fulfill user needs	All
14:30	1:00	Discussion about path forward	All
15:30	0:30	Coffee break	
16:00	1:20	Discussion about action items	All
17:20	0:10	Closing	Gustavo Nobre and Dave Brown (BNL)