

2024 DOE-NE Advanced Reactor Technologies Gas-Cooled Reactor Program Review Meeting

July 16-18, 2024

July 16-17: Energy Innovation Laboratory (EIL)

July 18: Collaborative Computing Center (C3)

**All buildings are established General Access Area (GAA), no badging is required.*

Agenda

Wednesday, July 17, 2024

Energy Innovation Laboratory (EIL), Conference rooms A111-A113

775 MK Simpson Blvd, Idaho Falls, ID 83401

(All times are MT)

Graphite Qualification and R&D

08:00	DOE ART Graphite R&D Introduction	Will Windes, INL
08:20	Graphite Oxidation Activities	Rebecca Smith, INL
08:50	Oxidation Resistant Graphite	Tim Bragg and Michael Barkdull, INL
09:20	Overview of Graphite Model Development.....	Veerappan Prithvirajan, INL
09:50	Break (20 minutes)	
10:10	ASME – Grappling with the Concept of Component Failure.....	Martin Metcalfe, Martin Metcalfe Consultancy
10:40	ASME Code Development (Design Rules).....	Andrea Mack, INL
11:10	Ceramic Composites.....	Wilna Geringer, ORNL
11:40	Break for lunch setup (20 minutes)	

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Graphite Qualification and R&D NEUP Projects (60 minutes)

- 12:00 Introduction of NEUP speakersWill Windes, INL
- 12:05 Multiscale Effects of Defects and Microstructure on Mechanical..... Gongyuan (Patrick) Liu,
Properties of Nuclear Graphite..... The Pennsylvania State University
- 12:35 Quantifying the Dynamic and Static Porosity/Microstructure..... Jacob Eapen,
Characteristics of Irradiated Graphite through Multi-technique North Carolina State University
Experiments and Mesoscale Modeling.....

Graphite Qualification and R&D

- 13:05 AGC Update.....Will Windes, INL
- 13:35 Molten Salt Intrusion Nidia Gallego, ORNL
- 14:05 Split-disk Studies.....Arvin Cunningham, INL and Lianshan Lin, ORNL
- 14:35 Wear Testing..... Tomas Grejtak, ORNL
- 15:05 Concluding remarksWill Windes, INL
- 15:20 Adjourn**