

The 2020 Workshop on

Digital Twin Applications for Advanced Nuclear Technologies

December 1st – 4th, 2020 (all times Eastern Time)

Day 1 December 1 st		Day 2 December 2 nd		Day 3 December 3 rd		Day 4 December 4 th	
Click to Register		Click to Register		Click to Register		Click to Register	
9:00 - 9:15 AM	Introduction and Opening Remarks: NRC Director	9:00 - 10:30 AM	Panel Session: ARPA-E GEMINA - Joel Fetter – <i>ARPA-E</i> - Abhinav Saxena – <i>GE</i> - Herman Van Antwerpen – <i>X-Energy</i> - Anthonie Cilliers – <i>Kairos Power</i> - Q&A	9:00 - 10:30 AM	Technical Session: International Activities in DTs - Richard Henry – <i>Ontario Power Generation</i> - Panagiotis Manolatos – <i>Euratom European Community</i> - Scott Adams – <i>UK Rolls-Royce SMR</i> - University of Norway (Prashant) - Q&A	9:00 - 11:15 AM	Closing Plenary: - Curtis Smith – <i>Idaho National Laboratory</i> - Michael Mazzola - <i>University of North Carolina at Charlotte</i> <i>Short Break (5 mins)</i>
9:15 - 11:30 AM	Opening Plenary: Reactor Digital Twins – Shifting the Paradigm - Michael Grieves - Joseph Berti - <i>IBM</i> - Ashley Finan – <i>Oak Ridge National Laboratory</i> - Rachel Slaybaugh - <i>National Reactor Innovation Center</i> - Jeremy Busby – <i>Department of Energy ARPA-E</i>	10:30 - 10:45 AM	Break	10:30 - 10:45 AM	Break	Panel Session: DT Regulatory Discussion - Bret Kugelmass – <i>Energy Impact Center</i> - Neil Olivier – <i>NuScale Power</i> - Pat Everett – <i>Oklo</i> - Gregory A Banyay – <i>Westinghouse Electric Co</i>	
		10:45 - 12:15	Technical Session: Industry Vision - Brian Golchert - <i>Westinghouse</i> - Matthew LeVasseur – <i>BWXT Nuclear Operations Group</i> - Hasan Charkas - <i>EPRI</i> - Claudio Filippone – <i>HolosGen, LLC</i> - Q&A	10:45 - 12:15	Technical Session: Cyber Security - Christopher Spirito – <i>Idaho National Laboratory</i> - Alan Konkak – <i>U.S. Nuclear Regulatory Commission</i> - Rodney Busquim - <i>IAEA</i> - Joseph Cristiano – <i>U.S. Nuclear Regulatory Commission</i> - Q&A	11:15 - 11:45 AM	Wrap Up Session I: <i>U.S. Nuclear Regulatory Commission</i>

11:30 - 1:30 PM	Break	12:15 - 1:30 PM	Break	12:15 - 1:30 PM	Break	11:45 AM	ADJOURN
Day 1 December 1 st		Day 2 December 2 nd		Day 3 December 3 rd		Day 4 December 4 th	
1:30 - 3:00 PM	Technical Session: Advanced Reactors - Yvotte Brits – <i>X-Energy</i> - Anthonie Cilliers – <i>Kairos Power</i> - Clyde Huibregtse – <i>Oklo, Inc.</i> - Neil Olivier – <i>NuScale Power</i> - Q&A	1:30 - 3:00 PM	Technical Session: Applications of Advanced Technologies - David E. Womble – <i>Oak Ridge National Laboratory</i> - Brian Betzler – <i>Oak Ridge National Laboratory</i> - Vincent Paquit – <i>Oak Ridge National Laboratory</i> - Christopher Ritter – <i>Idaho National Laboratory</i> - Richard Vilim – <i>Argonne National Laboratory</i> - Q&A	1:30 - 3:00 PM	Technical Session: Multiphysics Modeling - Dave Kropaczek – <i>Argonne National Laboratory</i> - Jeffery Lane – <i>Zachry Nuclear Engineering</i> - Rui Hu – <i>Argonne National Laboratory</i> - Felipe A.C. Viana – <i>University of Central Florida</i> - Q&A		
3:00 - 3:15 PM	Break	3:00 - 3:15 PM	Break	3:00 - 3:15 PM	Break		
3:15 - 4:45 PM	Technical Session: Non-Nuclear Applications of DT - Achalesh Pandey – <i>General Electric</i> - Chandler Maskal – <i>IBM</i> - Mark Buller – <i>CIV</i> - Kevin P. Chen – <i>University of Pittsburgh</i> - Q&A	3:15 - 4:45 PM	Technical Session: Operations and Maintenance - Eric Helm – <i>Framatome</i> - Richard Vilim – <i>Argonne National Laboratory</i> - Rizwan Uddin – <i>University of Illinois at Urbana-Champaign</i> - Subhasish Mohanty – <i>Argonne National Laboratory</i> - Q&A	3:15 - 4:45 PM	Technical Session: Diagnostics, Prognostics, and Condition Monitoring - Lance Fiondella – <i>UMass Dartmouth</i> - Nam Dinh – <i>NC State University</i> - Timothy Kernicky – <i>University of North Carolina at Charlotte</i> - Pradeep Ramuhalli – <i>Oak Ridge National Laboratory</i> - Q&A		
4:45 PM	Adjourn	4:45 PM	Adjourn	4:45 PM	Adjourn		