SIEMENS

2021 Department of Energy Digital Twin Conference

Pushing the boundaries of Science with state-of-the-art Simulation

An exclusive virtual event for the DoE labs

Wednesday, April 21, 2021 (Eastern Time) AGENDA

Time	Title	Presenter	
11:20	Welcome & Introduction		
Wed 4/21	**Digital transformation keynote**		
11:30am ET	Mars 2020 Perseverance Rover Mission, Design & Development	William Allen (NASA - Jet Propulsion Lab) *Mechanical Systems Design Lead*	
	William Allen, Senior Mechanical Systems Design Engineer. Working for NASA-Jet Propulsion Laboratory for 37 years. Serving as the Mechanical Systems Design Lead for the Mars 2020 Perseverance Mission, The follow-on Retrieval Mission, and the past 2 Mars Rover Missions.		

	Digital Twin reach: Collaboration across research domains		
12-12:20	Partnering with Siemens on DoE research	Dave Rapaport (Siemens CT) *Head of Research and Collaboration Management*	
12:20-12:40	Project examples: Advanced Materials, Design and Manufacturing developments for Power System Applications	Dr. Anand Kulkarni (Siemens CT) *Principal Key expert*	
12:40-1pm	Panel: Collaboration opportunities across Labs, Industry and Universities - to enhance the development and industrialization of impactful technology	Dr. David Pointer (ORNL) *Section Head, Advanced Reactor Engineering and Development, Nuclear Energy and Fuel Cycle Division* Dr. Jay Kapat (UCF) *Professor, Director, Center for Advanced Turbomachinery and Energy Research (CATER), Associate Director, Florida Center for Advanced Aero-Propulsion (FCAAP)* Dr. Keryl Cosenzo (Siemens CT) *Head, Government Research Programs* Drew Lytle (Siemens DISW) *Director, Aerospace Defense Federal and Marine segment*	   
1pm	**Digital Twin platform: Capturing knowledge to reach new heights**		
1-1:20	Xcelerator: Catalyst for science and technology innovation	Brian Frattaroli (Siemens DISW) *Zone Vice President Portfolio Development at Siemens Digital Industries Software*	
1:20-1:40	Integrated Teamcenter/NX/Simcenter 3D at Fermilab	Don Mitchell (Fermilab) *Senior Principal Engineer at Fermilab*	
1:40-2pm	Panel: Benefits of an integrated platform for science and technology innovation	Syed Hasan (SLAC) *Mechanical Engineer | Teamcenter Solution Architect* Don Mitchell (Fermilab) *Senior Principal Engineer at Fermilab*	

		Randy Langmead (Siemens + NCMS) *PLM Fellow, Aerospace Defense Federal and Maritime* Brian Frattaroli (Siemens DISW) *Zone Vice President Portfolio Development*	  
2pm	**Digital Twin solving power: complex problems solved fast**		
2-2:20	Simcenter simulation platform Powerful simulation technology at your fingertips	Stewart Featherstone (Siemens DISW) *Director Simcenter Portfolio at Siemens Digital Industries Software*	
2:20-2:40	Advanced CFD and Multiphysics design exploration	Prashant Jain *Group Leader (Thermal Hydraulics)* *&* Nathan See (ORNL) *Staff - Applied CFD at Oak Ridge National Laboratory, Thermal Hydraulics Group*	 
2:40-3pm	Electromagnetics	Don Mitchell (Fermilab) *Senior Principal Engineer at Fermilab*	
3-3:20	Structural Analysis: Boundary Condition Challenges in Dynamic Testing	David Soine (Sandia) *R&D Mechanical Engineer at Sandia National Laboratories*	
3:20-3:40	System simulation and model-based Reliability (RAMS)	Mike Croegaert (Siemens DISW) *System Simulation Business Development Manager*