

## 2021 US FOE

## Poster Titles

Poster stations are labeled with presenters names.

Poster Session	Floor	Last Name	Title
1	1	Abdul-Aziz	Going Beyond the Take-Use-Waste Linear Model
1	1	Ali	Nanobiomaterials for Sensing, Actuation, and Transport
1	1	Arbuckle	Autonomy in the Recreational Marine Environment
1	1	Basu Roy	Imagine all the People and AI in the Future of Work
1	1	Buettner	computational fluid dynamics
1	1	Call	Environmental Microbiology and Electrochemistry
1	1	Carter	Experimental Materials Data Science
1	1	Dannemiller	Indoor Dust is an Effective Matrix to Monitor for COVID-19 in Buildings
1	1	Deng	Combustion + X: Solutions for Energy and Environmental Challenges
1	1	Di Leo	Chemo-Mechanics Modeling for Energy Storage
1	1	Dial	Metallurgy, Additive Manufacturing, Turbine
1	2	Faenza	Multifaceted Approach to Battery System Safety
1	2	Fior	HP Digital dispensing technology
1	2	Gao	Skin-Interfaced Wearable Biosensors for Personalized Medicine
1	2	Groth	System safety, risk assessment and reliability engineering research & education
1	2	Hellstrom	Ford Research & Advanced Engineering: Modern Control Methods and Applications
1	2	Heyne	Sustainable aviation fuel development and qualification
1	2	Hossain-McKenzie	Cyber-Physical Modeling, Analysis, and Mitigation to Improve Electric Grid Cybersecurity
1	2	Icten Gencerq	Developing Next Generation Pharmaceutical Processes
1	2	Joe-Wong	Learning, Incentives, and Optimization for Networked Systems
1	2	Kiourti	Wearable and Implantable Technologies
1	2	Kontou	Modeling and Data Analytics for Sustainable Transportation Systems
1	3	Kyte	Human Factors and Ergonomics
1	3	Lara	Timing-aware Network Design
1	3	Le, Linh	Remote Monitoring Powered by Graphene Technology
1	3	Lee, Jennifer	Optical Technologies for Remote Sensing
1	3	Lee, Ji Yun	Risk-Informed Decision-Making for Infrastructure Systems and Communities
1	3	Lowe	Dow Coating Materials - Industrial Coatings R&D
1	3	Maestro	LTE/4G for Proximity Communications on the Lunar Surface
1	3	Markfort	Environmental Turbulence, Harmful Algal Blooms, Wind Energy
1	3	Mazumdar	Propulsion, Combustion, Optical Diagnostics
1	3	Middaugh	Hydrogen From a Variety of Feedstocks

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2	4	Miskin	Electronically-integrated Microscopic Robots
2	4	Moody	AI Property Analytics
2	4	Moran	Low-cost, Global, Communications
2	4	Morgan	Using Biomedical Engineering Tools to Optimize Patient Health and Performance
2	4	Mostafa	AI, Machine learning
2	4	O'Connor	Exploring Unsteady Combustion Phenomena in Power and Propulsion Technologies
2	4	Ortiz-Montalvo	AI-Guided Discovery of Sorbent Materials for Direct Air Capture of CO2
2	4	Ozay	Cyberphysical systems, verification, autonomy
2	4	Peranandam	Virtualization, Digital Twin, Verification
2	4	Praharaj	Xerox Printing
2	5	Premaratne	Tackling the Hardest Computational Problems by Rethinking Computing Itself
2	5	Ratnakar	Multi-Scale Physics For Reactive Transport in Application to Carbon Constrained Energy Transition
2	5	Robinson	Personalized Biomaterials and Tissue Engineering
2	5	Russell	VxRail Deployment
2	5	Sadtler	Engineering the Immune System: From Regenerative Medicine to Infectious Diseases
2	5	Sanyal	Membranes – the next generation sustainable separation tools
2	5	Schmidt	Manufacturing Renewable Fuels and Circular Plastics Using Fluid Catalytic Cracking
2	5	Schreier	Electrifying the chemical industry
2	5	Sealy	Convergent Manufacturing for Health: Metals to Meat
2	5	Shetye	Power systems, electric vehicles
2	6	Simhadri	Machine learning, nearest neighbor
2	6	Singh	Multi-Scale modeling for Sustainable Industrial Natural Coupled Systems (SINCS)
2	6	Stover	Navigating Vaccine Manufacturing Material Supply Constraints
2	6	Sundararaman	First-principles computational design of nanomaterials for electronic, photonic and energy applications
2	6	Vasudevan	Improving Grid Reliability
2	6	Vega	Agile Design of Programmable SoCs for Autonomous Vehicles
2	6	Wu	Business Model, Policy, and Technology Transformation in Electric Energy Sector for a Carbon-Neutral Future
2	6	Yang	Molecular Environmental Chemistry
2	6	Yue	Ultra-high Precision Assembly of Composite Structures: Fusing Physics-Based and Data-Driven Models
2	6	Zhang	CFD, combustion, propulsion
2	6	Zope	Cleaner, Greener, Cummins