

# 2020 MURI Days

Mrs. Katie Wisecarver | June 10-11, 2020 | Virtual

## Agenda Day 1 | Wednesday, June 10, 2020

Time	Topic	Speaker
8:45	<b>Zoom Meeting Log In Begins</b>	
9:00	Welcome and Logistics	Ms. Katie Wisecarver AFOSR, RTB
9:05	Opening Remarks	Dr. Shery Welsh AFOSR, Director
9:20	Passive Fluid-Surface Interactions for Enhanced Air and Sea Vehicle Performance	Dr. Gregg Abate AFOSR, RTA
9:40	Modeling/Simulation of EM Wave Propagation Through Turbulent Media	Dr. Arje Nachman AFOSR, RTB
10:00	<b>BREAK</b>	
10:10	Microelectronic Assurance through Reliance and Stemma Test	Dr. Brett Pokines AFOSR, RTA
10:30	Predictive Investigations of Radiation-Induced Phenomena in Electronics	Dr. Brett Pokines AFOSR, RTA
10:50	Visual Connections and Processes Post Photoreceptors	Dr. Pat Bradshaw AFOSR, RTB
11:10	Understanding Multi-phase Concentrated Refractory Alloy Mechanisms and Stability for High Temperature Structures	Dr. Jaimie Tiley AFOSR, RTA
11:30	<b>LUNCH</b>	
12:30	Machine Learning for Rapid Transition of Energetic Materials	Dr. Martin Schmidt AFOSR, RTB
12:50	Social Network-Transcendent Behavioral Dynamics	Dr. Laura Steckman AFOSR, RTA
1:10	Technosocial Determinants across Artificial Platforms	Dr. Laura Steckman AFOSR, RTA
1:30	<b>BREAK</b>	
1:40	Optical Computing	Dr. Gernot Pomrenke AFOSR, RTB
2:00	Collective Light-Matter Interactions	Dr. Andrew Stickrath AFOSR, RTA
2:20	Programmable Meta-layers of Electrical Devices for Morphing Systems	Dr. Les Lee AFOSR, RTB
2:40	Carbon-Metal Bonding for Hypersonic and Beyond	Dr. Chiping Li AFOSR, RTA
3:00	<b>MEETING ADJOURN FOR THE DAY</b>	

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## Agenda Day 2 | Thursday, June 11, 2020

Time	Topic	Speaker
8:45	Zoom Meeting Log In Begins	
9:10	Welcome and Logistics	Katie Wisecarver AFOSR, RTB
9:20	Strong Coupling in Light-Matter Interactions: Cavity Polaritons	Dr. Mike Berman AFOSR, RTB
9:40	Synthetic Quantum Matter	Dr. Grace Metcalfe AFOSR, RTB
10:00	Flat Bands beyond van der Waals Materials	Dr. Jiwei Lu AFOSR, RTB
10:20	BREAK	
10:30	Engineering Biology Design and Control for Cell-based Material Production	Dr. Aura Gimm AFOSR, RTB
10:50	Composability of Synthetic Biological Circuits	Dr. Fred Leve AFOSR, RTA
11:10	LUNCH	
12:10	Mathematics of Physics-based and data driven simulation for Dynamics Decision Making	Dr. Fariba Fahroo AFOSR, RTA
12:30	Sensing Multiscale Biophysics	Dr. Sofi Bin-Salamon AFOSR, RTB
12:50	Material Design with Extreme Interband Nonlinearities	Dr. Ali Sayir AFOSR, RTB
1:10	Closing Remarks	Col Jason Mello AFOSR, RT Chief
1:25	MEETING ADJOURN	