

2021 Dynamic Materials and Interactions Laboratory Task Review

Dr. Martin Schmidt | September 20, 2021 | Niceville, FL

September 20, 2021 | Doolittle Institute
1140 E John Sims Parkway, Suite 1, Niceville, FL 32578

Time (CDT)	Topic	Speaker
8:30	Set-up	
9:00	Welcome and Introduction to Dynamic Materials and Interactions	Martin Schmidt, Air Force Office of Science and Research
9:15	Elongated Void Refinement: Implications on Initiation Sensitivity?	Chris Molek, AFRL/RWMES
10:15	Surface and Interfacial Influences on the Bulk Mechanical Responses of Composite Materials	Claron Ridge, AFRL/RWMEC
10:55	BREAK	
11:10	Advanced Combustion Model for High Explosive Afterburn	Brian Taylor, AFRL/RWMAC
11:55	Nitromethane Afterburn Temperature and Species Characterization at AWEF Blast Chamber	Subith Vasu, University of Central Florida
12:30	LUNCH	
1:30	Innovative High Speed Infrared Detection for Spectroscopy Applied to Blast Imaging	Monica Allen, AFRL/RWMFT
2:00	Data Analytics on the Topology of Microstructures Subjected to Shock Loading	Manny Gonzales, AFRL/RXCM
2:30	Damage in Highly-Filled Composites	Tim Miller, AFRL/RQRP
3:10	BREAK	
3:25	Fluoropolymers for Propellant Binders: Towards Energy-Dense Polymers for Solid Rocket Motors	Kamran Ghiassi, AFRL/RQRP
3:55	Microscopic Imaging and Optical Pressure Measurements of Detonations	Ibrahim (Emre) Gunduz, Naval Post Graduate School
4:25	2021 Summer Faculty Fellowship Research at AFRL/RWME	Gary Seidel, Virginia Tech
4:55	FINAL COMMENTS AND ADJOURN	