



# 2022 Program-at-a-Glance

*ALL TIMES ARE IN CENTRAL DAYLIGHT TIME		<b>Monday, 12 September</b>	Registration in <i>Emerald Foyer</i> 8:00 am-4:00 pm Exhibits in <i>Coastal Ballroom Foyer</i> 8:00 am-4:00 pm
12:00 pm- 1:15 pm	<b>MA1: Women in Photonics/Women in Science and Engineering Luncheon</b> <i>*Pre-registration Required*</i> <b>Plenary:</b> Ms. Lisa Sanders, <i>USSOCOM Director of Science and Technology, USA</i>		<i>Emerald E</i>
<b>1:15 pm-1:30 pm – BREAK - Emerald Foyer</b>			
1:30 pm- 3:45 pm	<b>MB1: Keynote &amp; Plenary Session</b>		<i>Emerald C/D</i>
	<b>Welcome Remarks:</b> David Lambert, <i>Air Force Research Laboratory, Munitions Directorate, USA</i>		
	<b>Keynote:</b> Dr. Victoria Coleman, <i>Chief Scientist of the United States Air Force, USA</i>		
	<b>Plenary:</b> Dr. Timothy Bunning, <i>Chief Technology Officer, Air Force Research Laboratory, USA</i>		
	<b>Plenary:</b> Prof. Yeshaiahu (Shaya) Fainman, <i>Professor, University of California San Diego, USA</i>		
<b>Plenary:</b> Prof. Benjamin Eggleton, <i>Director of The University of Sydney Nano Institute, Australia</i>			
<b>3:45 pm-4:00 pm – BREAK - Emerald Foyer</b>			
4:00 pm- 4:30 pm	<b>MC1: Workforce Development and Networking</b> <b>Plenary:</b> Mr. Rodney Allen, <i>Air Force Research Laboratory, USA</i>		<i>Emerald C/D</i>

**\*ALL TIMES ARE IN CENTRAL DAYLIGHT TIME** **Tuesday, 13 September** **Registration in Emerald Foyer 8:00 am-4:00 pm**  
**Exhibits in Coastal Ballroom Foyer 8:00 am-4:00 pm**

<i>Emerald A</i>	<i>Emerald B</i>	<i>Coastal A</i>	<i>Coastal B</i>	<i>Coastal C</i>	<i>Emerald C</i>
<b>8:00 am-10:00 am</b> <b>TuA1:</b> Active Plasmonics and Nanophotonics	<b>8:00 am-10:00 am</b> <b>TuB1:</b> Optical Methods for Characterizing Propulsion Systems	<b>8:00 am-10:00 am</b> <b>TuC1:</b> Microwave Optics and RF Photonics	<b>8:00 am-10:00 am</b> <b>TuD1:</b> Infrared Organic Materials & Properties	<b>8:00 am-9:30 am</b> <b>TuE1:</b> High Power Laser Matter Interaction  <b>9:30 am-10:00 am</b> <b>TuE2:</b> Pulse Laser Technology and Applications	<b>8:00 am-10:00 am</b> <b>TuF1:</b> Human Machine Symbiosis

**10:00 am-10:15 am - BREAK - Emerald Foyer**

<b>10:15 am-12:15 pm</b> <b>TuA2:</b> Emerging Materials Platforms for Pasmonics	<b>10:15 am-11:45 am</b> <b>TuB2:</b> Innovations in Test & Evaluation Forum	<b>10:15 am-12:15 pm</b> <b>TuC2:</b> Interferometric Analysis Methods	<b>10:15 am-11:45 am</b> <b>TuD2:</b> Modeling and Simulation for Advanced Photonics	<b>10:15 am-12:00 pm</b> <b>TuE3:</b> Laser/Emitters	<b>10:15 am-11:30 am</b> <b>TuF2:</b> Recent Advances, Discoveries and Future Opportunities in Photonic Nano-materials
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**12:15 pm-1:30 pm - STEM Luncheon \*Pre-registration Required\*** *Emerald E*  
**Plenary:** Dr. George Fischer, Army Combat Capabilities Development Command, USA

<b>1:30 pm-3:00 pm</b> <b>TuA3:</b> Integrated Quantum Photonics	<b>1:30 pm-3:30 pm</b> <b>TuB3:</b> Blast/Shock Wave Imaging and Spectroscopic Techniques-I	<b>1:30 pm-3:45 pm</b> <b>TuC3:</b> Optical Sensing and Computational Imaging Systems	<b>1:30 pm-3:15 pm</b> <b>TuD3:</b> Non-Epitaxial Optoelectronic Devices	<b>1:30 pm-3:00 pm</b> <b>TuE4:</b> High Peak and Average Power Laser Technology Solid State	<b>1:30 pm-2:45 pm</b> <b>TuF3:</b> Devices and Systems for Sensors
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**3:30 pm-3:45 pm - BREAK - Emerald Foyer**

<b>3:45 pm-5:15 pm</b> <b>TuA4:</b> Ultrafast and Nonlinear Nanophotonics	<b>3:45 pm-5:15 pm</b> <b>TuB4:</b> Blast/Shock Wave Imaging and Spectroscopic Techniques-II	<b>3:45 pm-5:30 pm</b> <b>TuC4:</b> UV Optoelectronics	<b>3:45 pm-4:45 pm</b> <b>TuD4:</b> Two-Dimensional Materials & Topological Photonics	<b>3:45 pm-4:45 pm</b> <b>TuE5:</b> Terahertz Photonics	
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**7:00 pm-9:00 pm**  
**Welcome Reception - Barefoot's Deck**

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## Wednesday, 14 September

Registration in *Emerald Foyer* 8:00 am-4:00 pm  
Exhibits in *Coastal Ballroom Foyer* 8:00 am-4:00 pm

<i>Emerald A</i>	<i>Emerald B</i>	<i>Coastal A</i>	<i>Coastal B</i>	<i>Coastal C</i>	<i>Emerald C</i>
<b>8:00 am-9:45 am</b> <b>WA1:</b> Biosensing Methods	<b>8:00 am-9:30 am</b> <b>WB1:</b> Novel Materials for Photonics	<b>8:00 am-10:00 am</b> <b>WC1:</b> Spectral, Polarimetric, and Multimodal Imaging	<b>8:00 am-9:45 am</b> <b>WD1:</b> Optical Metamaterials Based Devices and Applications	<b>8:00 am-10:00 am</b> <b>WE1:</b> Instrumentation for Test and Evaluation of Nonlinear Plasma Effects In Space Physics Applications	<b>8:00 am-10:00 am</b> <b>WF1:</b> Displays and Holography I
<b>10:00 am-10:15 am - BREAK - Emerald Foyer</b>					
<b>10:15 am- 12:15 pm</b> <b>WA2:</b> Human State Measurement	<b>10:15 am- 12:15 pm</b> <b>WB2:</b> Scalable Manufacturing and Rapid Prototyping for Photonics	<b>10:15 am-12:15 pm</b> <b>WC2:</b> RF and Optical Target Imaging, Identification, and Pattern Recognition	<b>10:15 am-12:15 pm</b> <b>WD2:</b> Resonant Photonic Lattices: Principles and Applications	<b>10:15 am-12:15 pm</b> <b>WE2:</b> Photonics and Future Warfighter Operational Concepts	<b>10:15 am-11:45 am</b> <b>WF2:</b> Displays and Holography II
<b>12:15 pm-1:15 pm - LUNCH BREAK – On Own</b>					
<b>1:15 pm-2:45 pm</b> <b>WA3:</b> Materials and Devices for Biosensing	<b>1:15 pm-3:00 pm</b> <b>WB3:</b> Semiconductor Materials and Quantum Nanoscience	<b>1:15 pm-3:15 pm</b> <b>WC3:</b> Optical Detectors and Focal Plane Arrays	<b>1:15 pm-2:45 pm</b> <b>WD3:</b> Dynamic Control of Self-assembled Plasmonic Nanostructures	<b>1:15 pm-3:15 pm</b> <b>WE3:</b> EO/IR/LADAR	
<b>3:15 pm-3:30 pm - BREAK - Emerald Foyer</b>					
<b>3:30 pm-5:00 pm</b> <b>WA4:</b> Methods and Systems for High Speed Imaging and Sensing of Biological Systems	<b>3:30 pm-5:00 pm</b> <b>WB4:</b> Recent Advances, Discoveries and Future Opportunities in Photonic Nano-Materials	<b>3:30 pm-5:30 pm</b> <b>WC4:</b> Optical Detectors/Sensors	<b>3:30 pm-5:30 pm</b> <b>WD4:</b> Optical Metasurfaces and Applications	<b>3:30 pm-5:30 pm</b> <b>WE4:</b> Devices and Systems for Sensors	