



Basic Research Innovation Collaboration Center (BRICC)  
4100 North Fairfax Drive, Suite 450 | Research Room  
Arlington, VA 22203

**Agenda Day 1**  
**Tuesday, January 7, 2020**

Time	Title	Speaker
0800-0830	Registration	
0830-0900	Do Truly Unidirectional Waves Exist in Nonreciprocal Plasmas? Unveiling the Role of Topology, Locality, and Passivity in Nonreciprocal Electromagnetics	Francesco Monticone Cornell
0900-0930	Total Variation Bayesian Learning Via Synthesis	Anne Gelb Dartmouth College
0930-1000	Combining Data-Driven and Physics-Based Methods for Maxwell Vector EM Propagation Through Inhomogeneous Turbulent Media	Alex Mahalov Arizona State University
1000-1030	BREAK	
1030-1100	Stellar Speckle and Correlation Functions Derived from Classical Wave Expansions for Spherical Antennas	Arthur Yaghjian S4, Inc
1100-1130	Limiting and Saturation Effects in Optical Parametric Resonances	Alessandro Salandrino University of Kansas
1130-1300	LUNCH	
1300-1330	Grating Geometries Determined Explicitly from Pre-selected Plane-wave Parameters using a Generalized Poisson Formula	Thorkild Hansen S4, Inc
1330-1400	Imaging through a Layer of Random Obscuring Media Composed of Large Scatterers - Addressing the Backscattering Challenge	Elizabeth Bleszynski Monopole Research
1400-1430	BREAK	
1430-1500	Bistability and Nonreciprocity in Photonic Structures with Phase-Change Components	Ilya Vitebskiy AFRL/RV
1500-1530	Detection, Estimation, and Imaging for Passive Source Localization	Margaret Cheney Colorado State University
1530	ADJOURN FOR THE DAY	

<b>Agenda Day 2</b> <b>Wednesday, January 8, 2020</b>		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
<b>0800-0830</b>	<b>Registration</b>	
<b>0830-0900</b>	Chiral and Topological Modes	<b>Daniel Sievenpiper</b> UCSD
<b>0900-0930</b>	High Resolution SAR Imaging in Random Media	<b>Liliana Borcea</b> University of Michigan
<b>0930-1000</b>	Fourier Forwarding, Frequency-time Hybridization, Dispersive Media and Novel Acceleration	<b>Oscar Bruno</b> CalTech
<b>1000-1030</b>	<b>BREAK</b>	
<b>1030-1100</b>	Detection and Analysis of Scattering Delay in SAR Imaging	<b>Semyon Tsynkov</b> NCSU
<b>1100-1130</b>	Robust Generalized Wirtinger Flow for Interferometric Inversion	<b>Birsen Yazici</b> RPI
<b>1130-1300</b>	<b>LUNCH</b>	
<b>1300-1330</b>	Computation of Wishart Eigenvalue Distributions for Multistatic Radar Detection with Signal Present	<b>Doug Cochran</b> Arizona State University
<b>1330-1400</b>	Coherence and the Hanbury Brown-Twiss effect in a Random Medium	<b>Knut Solna</b> UC/Irvine
<b>1400-1430</b>	<b>BREAK</b>	
<b>1430-1500</b>	Placement of Multi-fidelity Sensors and Balancing Transformations	<b>Nathan Kutz</b> University of Washington
<b>1500-1530</b>	Matching Component Analysis for Synthetic Aperture Radar Domain Adaptation	<b>Theresa Scarnati</b> AFRL/RV
<b>1530</b>	<b>ADJOURN FOR THE DAY</b>	

<b>Agenda Day 3</b> <b>Thursday, January 9, 2020</b>		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
<b>0800-0830</b>	<b>Registration</b>	
<b>0830-0900</b>	Eigenvalue Problems in Inverse Electromagnetic Scattering	<b>Fioralba Cakoni</b> Rutgers Univ
<b>0900-0930</b>	Non-Classical Optical Turbulence in the Atmosphere	<b>Andreas Muschinski</b> NWRA
<b>0930-1000</b>	Machine Learning-assisted Algorithms for Improved Imaging	<b>Jason Fleischer</b> Princeton University
<b>1000-1030</b>	<b>BREAK</b>	
<b>1030-1100</b>	Virtual Absorption with Non-Harmonic Excitation	<b>Andrea Alu</b> CUNY
<b>1100-1130</b>	Atmospheric Turbulent Deconvolution	<b>Jerome Gilles</b> San Diego State University
<b>1130-1300</b>	<b>LUNCH</b>	
<b>1300-1330</b>		
<b>1330-1400</b>		
<b>1400-1430</b>	<b>BREAK</b>	
<b>1430-1500</b>		
<b>1500-1530</b>		
<b>1530</b>	<b>MEETING ADJOURNED</b>	