



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	Virtual Absorption with Non-Harmonic Excitation	Andrea Alu CUNY
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	

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

Agenda Day 3 Thursday, January 9, 2020		
Time	Title	Speaker
0800-0830	Registration	
0830-0900	Eigenvalue Problems in Inverse Electromagnetic Scattering	Fioralba Cakoni Rutgers Univ
0900-0930	Non-Classical Optical Turbulence in the Atmosphere	Andreas Muschinski NWRA
0930-1000	Machine Learning-assisted Algorithms for Improved Imaging	Jason Fleischer Princeton University
1000-1030	BREAK	
1030-1100	Do Truly Unidirectional Waves Exist in Nonreciprocal Plasmas? Unveiling the Role of Topology, Locality, and Passivity in Nonreciprocal Electromagnetics	Francesco Monticone Cornell
1100-1130	Atmospheric Turbulent Deconvolution	Jerome Gilles San Diego State University
1130-1300	LUNCH	
1300-1330	High-Fidelity Vector Wave Propagator for Simulation of Optical Field Interaction with Compressible Flows	Austin McDaniel AFRL/RD
1330-1400	Novel Imaging and Light Detection with Metasurfaces	Augustine Urbas AFRL/RX
1400-1430	BREAK	
1430-1500	Brightness Theorems for Waves	Owen Miller Yale
1500-1530	Root Locus Analysis of the Ground-To-Space Localization Problem, with Error Analysis	Thomas Lovell AFRL/RV
1530	MEETING ADJOURNED	