



Basic Research Innovation Collaboration Center (BRICC)  
4075 Wilson Blvd, Suite 350 | Liberty Room  
Arlington, VA 22203

**Agenda Day 1**  
**Tuesday, January 10, 2017**

Time	Title	Speaker
0730-0755	Registration	
0755-0800	Welcome, etc	<b>Arje Nachman</b> AFOSR/RTB
0800-0830	Imaging and Communication through Sparse Discrete Scatterer Media: Enhancement of Early-time Diffusion by Beam Collimation	<b>Elizabeth Bleszynski</b> Monopole Research
0830-0900	Eigenvalues in Inverse Scattering Theory	<b>David Colton</b> University of Delaware
0900-0930	Compression Methods for Signal Fragmentation	<b>Russel Caflisch</b> UCLA
0930-1000	Stochastic Effects and Time-Filtered Leapfrog Integration of Maxwell Equations using Unstaggered Temporal Grids	<b>Alex Mahalov</b> Arizona State University
1000-1030	<b>BREAK</b>	
1030-1100	Boundary Conditions for Multipolar Media Determined from Maxwell's Equations and Constitutive Relations	<b>Arthur Yaghjian</b> S4, Inc
1100-1130	Coherence Effects in Scattering	<b>Taco Visser</b> University of Rochester
1130-1300	<b>LUNCH</b>	
1300-1330	Conformal Array Realizations of the Near and far Fields of a Complex Point Source	<b>Thorkild Hansen</b> S4, Inc
1330-1400	Extension of Metasurface Theory for Anisotropic and Multilayered Cases	<b>Bae-lan Wu</b> AFRL/RV
1400-1430	<b>BREAK</b>	
1430-1500	Unidirectional Lasing in Nonreciprocal Active Structures	<b>Ilya Vitebskiy</b> AFRL/RV
1500-1530	Properties and Production of Twisted Light	<b>Richard James</b> University of Minnesota
1530-1600	Metasurface-Based Antenna Beamformers	<b>Anthony Grbic</b> University of Michigan
1600-1630		
1630-1700		
1700	<b>ADJOURN FOR THE DAY</b>	

**Agenda Day 2**  
**Wednesday, January 11, 2017**

<b>Time</b>	<b>Title</b>	<b>Speaker</b>
<b>0730-0755</b>	<b>Registration</b>	
<b>0755-0800</b>	Welcome, etc	<b>Arje Nachman</b> AFOSR/RTB
<b>0800-0830</b>	Topological Electromagnetics for Robust One-way Signal Transport in Metasurfaces	<b>Andrea Alu</b> University of Texas/Austin
<b>0830-0900</b>	Arbitrary Patterning Techniques for Anisotropic Surfaces, and Line Waves	<b>Daniel Sievenpiper</b> UCSD
<b>0900-0930</b>	Mitigating Uncertainty in Imaging	<b>Liliana Borcea</b> University of Michigan
<b>0930-1000</b>	Passive SAR Imaging of Satellites	<b>George Papanicolaou</b> Stanford University
<b>1000-1030</b>	<b>BREAK</b>	
<b>1030-1100</b>	The Windowed Green Function Method, Spectral Time-domain Solvers and Applications	<b>Oscar Bruno</b> Caltech
<b>1100-1130</b>	Computational EM at the High Performance Computing Modernization Office	<b>John D'Angelo</b> AFRL/ry
<b>1130-1300</b>	<b>LUNCH</b>	
<b>1300-1330</b>	SAR Imaging for Amplitude Modulated Signals	<b>Semyon Tsynkov</b> NCSU
<b>1330-1400</b>	Multi-static Passive Polarimetric Radar Imaging	<b>Birsen Yazici</b> RPI
<b>1400-1430</b>	<b>BREAK</b>	
<b>1430-1500</b>	High Order $l^1$ Regularization Techniques for Reconstructing Images from Fourier Data	<b>Anne Gelb</b> Dartmouth College
<b>1500-1530</b>	Speckle Intensity Correlation Imaging Through a Strongly Scattering Medium	<b>Knut Solna</b> UC/Irvine
<b>1530-1600</b>	On the Dissipative Properties of Electromagnetic Fields in Stratified Magnetic-dielectric Media	<b>Aaron Welters</b> Florida Inst Tech
<b>1600-1630</b>		
<b>1630-1700</b>		
<b>1700</b>	<b>ADJOURN FOR THE DAY</b>	

**Agenda Day 3**  
**Thursday, January 12, 2017**

<b>Time</b>	<b>Title</b>	<b>Speaker</b>
<b>0730-0755</b>	<b>Registration</b>	
<b>0755-0800</b>	Welcome, etc	<b>Arje Nachman</b> AFOSR/RTB
<b>0800-0830</b>	Sparse Sensor Placement for Classification, Reconstruction, and Future-state Prediction of Multi-scale Spatio-temporal Dynamics	<b>Nathan Kutz</b> University of Washington
<b>0830-0900</b>	Tradeoffs in Passive Geolocation and Navigation	<b>Laurent Demanet</b> MIT
<b>0900-0930</b>	On the Detection of Electromagnetic Characteristics of Targets in the Radar Environment	<b>Vladimir Rokhlin</b> Yale
<b>0930-1000</b>	Tractable Radar Waveform Design Under Practical Constraints	<b>Vishal Monga</b> Penn State University
<b>1000-1030</b>	<b>BREAK</b>	
<b>1030-1100</b>	Exact Bayesian Detection in Multistatic Passive Radar	<b>Douglas Cochran</b> Arizona State University
<b>1100-1130</b>	Decomposition of Oscillatory vs Non-oscillatory Movement. Detection of Moving Targets in Atmospheric Turbulence	<b>Jerome Gilles</b> San Diego State University
<b>1130-1300</b>	<b>LUNCH</b>	
<b>1300-1330</b>	Provable Non-convex Subspace Recovery in the Presence of Outliers and Streaming Data	<b>Yuejie Chi</b> Ohio State University
<b>1330-1400</b>	Deep Representations	<b>Stefano Soatto</b> UCLA
<b>1400-1430</b>	<b>BREAK</b>	
<b>1430-1500</b>	Matrix Optimal Transport for Problems in Signal Processing	<b>Allen Tannenbaum</b> SUNY/Stony Brook
<b>1500-1530</b>	Passive Radar Detection Using a Noisy Reference Channel	<b>Sandeep Gogineni</b> AFRL/RV
<b>1530-1600</b>		
<b>1600-1630</b>		
<b>1630-1700</b>		
<b>1700</b>	<b>MEETING ADJOURNED</b>	