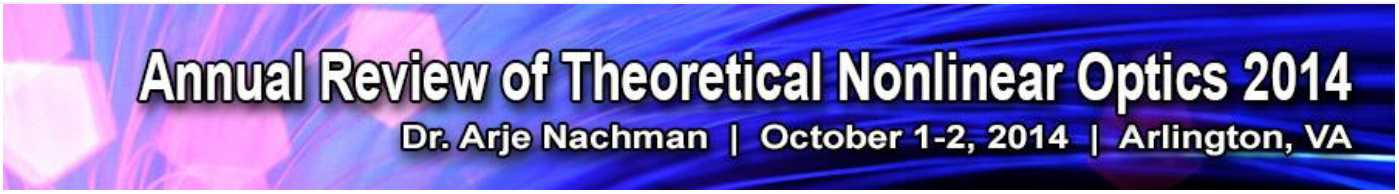

Basic Research Innovation Collaboration Center (BRICC)
4075 Wilson Blvd., Suite 350
Arlington, VA 22203

AGENDA - Day 1 – October 1, 2014

Time	Title of Project	Speaker
0730-0800	**Registration**	
0800-0805	Welcome/Introduction	**Arje Nachman** Air Force Office of Scientific Research
0805-0850	MURI Project Overview: Goals, Team, Challenges	**Jerry Moloney** University of Arizona
0850-0920	Microscopic Modeling of Light-Matter Interaction in the Strong Field Regime	**Stephan Koch** Philipps University, Marburg
0920-0950	Engineering Filament Dynamics via Accelerating Dressed Beams	**Demetrios Christodoulides** CREOL-College of Optics and Photonics
0950-1020	First-Principles, Non-Perturbative Light-Matter Interaction Model for Optical Filamentation	**Miroslav Kolesik** University of Arizona
1020-1050	**BREAK**	
1050-1120	Air-Lasing Concepts	**Pavel Polynkin** University of Arizona
1120-1150	Development and Applications of Filament-Induced Air Waveguides	**Howard Milchberg** University of Maryland
1150-1220	Numerical Simulation of Strong-Field Processes and its Application to Laser Pulse Filamentation	**Agnieszka Jaron-Becker** University of Colorado
1220-1330	**LUNCH**	
1330-1400	Higher Order Nonlinearities in Laser Filamentation	**Robert Levis** Temple University
1400-1430	Influence of Nonlinear Laser Beam Propagation on High harmonic Generation from the UV to the keV	**Margaret Murnane** University ofColorado
1430-1500	Control and characterization of Long Range Focusing of Ultrashort Pulses for High Intensity Beam Delivery	**Charles Durfee** Colorado School of Mines
1500-1530	**BREAK**	
1530-1600	Filamentation at High Pressures	**Alex Gaeta** Cornell University
1600-1630	Ultra-short Pulse Laser Research at AFRL: Update on Propagation Modeling and Filament Experiments	**Andreas Schmitt-Sody** AFRL
1630-1700	Many-Body and Pulse-Chirp Effects on the Electron Energy Distribution During Filamentation in Solids	**Jeremy Gulley** Kennesaw State University
1700	**MEETING ADJOURNED FOR THE DAY**	

AGENDA - Day 2 – October 2, 2014		
0730-0745	**Registration**	
0745-0750	Introduction	**Dr. Arje Nachman** AFOSR
0750-0830	Part 1: Recent Experiments on and Ultrafast Nonequilibrium Carrier Dynamics in Semiconductor Laser Mode-Locking Part 2: : Ultrafast Kinetic Hole Burning and Filling - Second Born Approximation	**Dr. Jerome Moloney** University of Arizona **Dr. Stephen Koch** Philipps University, Marburg
0830-0900	Self-tuning Lasers and Optical Systems	**Dr. Nathan Kutz** University of Washington
0900-0930	Nonlinear and Quantum Phase Retrieval	**Dr. Jason Fleischer** Princeton
0930-1000	Photonic Honeycomb Lattices: Localized Linear and Nonlinear Edge States	**Dr. Mark Ablowitz** University of Colorado
1000-1030	**BREAK**	
1030-1100	Vortices in Photonic Graphene	**Dr. Zhigang Chen** San Francisco State University
1100-1130	Nonlinear Optics in PT and non-PT Waveguides	**Dr. Jianke Yang** University of Vermont
1130-1200	RF Performance of Photo-detected Period-One Oscillations in Injection-locked Semiconductor Lasers	**Dr. Nicholas Usechak** AFRL
1200-1300	**LUNCH**	
1300-1330	High Speed GaAs and GaN Device Simulation	**Dr. Mathew Grupen** AFRL
1330-1400	Theory for Anisotropic Charge-Density Oscillations in Spherical Two-Dimensional Electron Gases	**Dr. Danhong Huang** AFRL
1400-1430	Nonlinear Dynamics and Instabilities of High Power Fiber Amplifiers and Passively and Actively Phased Fiber Laser Arrays	**Dr. Erik Bochove** AFRL
1430-1500	Superpersistent Currents and Whispering Gallery Modes in Chaotic Dirac Rings	**Dr. Ying-Cheng Lai** Arizona State University
1530-1600	Nonlinear Switching in Multimode Waveguides	**Dr. Arash Mafi** University of Wisconsin/Milwaukee
1600	**MEETING ADJOURNED**	