

2012 Electromagnetics Contractors Meeting

Dr. Arje Nachman | 18-19 January 2012 | San Antonio, TX

The Historic Menger Hotel
204 Alamo Plaza, San Antonio, TX 78205

Agenda Day 1
Wednesday, January 18, 2012

Time	Title	Speaker
0700–0755	Registration	
0755–0800	Welcome	Arje Nachman AFOSR/RSE
0800–0830	Imaging through Inhomogeneous Media with Auxiliary Arrays	George Papanicolaou Stanford University
0830–0900	L ₁ -Minimization via a generalized Lagrange Multiplier Algorithm	Leonid Ryzhik Stanford University
0900–0930	Deep Probing and Fractional Precursors in Random Media	Knut Solna University of California@Irvine
0930–1000	Wave Propagation in Waveguides with Random Boundaries	Liliana Borcea Rice
1000–1030	BREAK	
1030–1100	Fast and Accurate EM Simulation Tools for Complex Engineering Configurations	Oscar Bruno Caltech
1100–1130	Integral Equation Methods for Scattering Problems with Multiple Material Interfaces	Leslie Greengard Courant Institute/NYU
1130–1200	Space, Time, and Spectrally Adaptive Time Domain Integral Equation Solvers	Eric Michielsson University of Michigan
1200–1330	LUNCH	
1330–1400	Exact Gaussian-Beam Theory for Outgoing and Standing Spherical Waves: Application to Transmitting and Receiving Antennas	Thorkild Hansen Arcon, Inc
1400–1430	A General Definition of Vacuum EM Reactive Energy	Gerald Kaiser Center for Signals and Waves
1430–1500	Exact Representations of Periodic Metamaterial Arrays using Generalized Electric & Magnetic Polarization Densities	Arthur Yaghjian Arcon, Inc
1500–1530	BREAK	
1530–1600	Dielectric & Plasmonic Metamaterials for Wave Engineering	Hossein Mosallaei Northeastern
1600–1630	Exotic Scattering Response of Linear and Nonlinear Composite Plasmonic Particles	Andrea Alu Univ Texas@Austin
1630–1700	Metamaterial Surfaces	Anthony Grbic University of Michigan
1700	ADJOURN FOR THE DAY	

Agenda Day 2		
Thursday, January 19, 2012		
Time	Topic	Speaker
0700–0800	Registration	
0800–0840	Imaging through random, Sparse, Discrete-Scatterer media	Elizabeth Bleszynski Monopole Research
0840–0900	Pulse Transmission Through Planar Air-Dielectric Interface	Natalie Cartwright SUNY@New Paltz
0900–0930	Radar Imaging	Margaret Cheney RPI
0930–1000	On SAR imaging through the Earth's Ionosphere	Semyon Tsynkov North Carolina State University
1000–1030	BREAK	
1030–1100	An Abstract Framework of Dissipation Effects in a Composite Medium	Alex Figotin University of California@Irvine
1100–1130	Sparse Deconvolution beyond L_1 Minimization	Laurent Demanet MIT
1130–1200	Radar Applications of Compressed Sensing under Matrix Uncertainty	Jason Parker AFRL/Ry
1200–1330	LUNCH	
1330–1400	New Developments on Transmission Eigenvalues with Applications to Nondestructive Testing	David Colton University of Delaware
1400–1430	Theory and Applications of Anisotropic Metamaterial Surfaces	Dan Sievenpiper UCSD
1430–1510	Electromagnetic Waves in Graphene Structures	Bae-Ian Wu AFRL/Ry
1510–1530	BREAK	
1530–1600	Time Domain Aspects of the Ewald-Oseen Theorem	Richard Albanese ADED Co.
1600–1630	A Generalized Gouy Phase for Focused, Partially Coherent Fields and its Implications for Interferometry	Taco Visser Free University, Amsterdam, The Netherlands
1630–1700	Target Detection in Non-Uniform Slowness Fields using Time-Reversed Nonlinear Solitary Waves	John Steinhoff UTSI
1700	MEETING ADJOURN	