SCIENCE INSTRUMENTS & SENSORS ROADMAP

Approx. Time	Title	Author/ Presenter	Organization
9:30	Science Instruments and Sensors: Introduction	R. Barney	NASA GSFC
10:15	Technologies Supporting Scalable Imaging TES Arrays	G. C. Hilton (presented by J. Chervenek, GSFC)	NIST Boulder
10:25	Micro Electronics for Extreme Environments	Dr. N.S. Dogan	North Carolina A&T
10:35	Global Environmental Micro Sensors (GEMS): A New Instrument Paradigm for In Situ Earth Observation	Mark L. Adams	ENSCO, Inc.
10:55	High-Resolution Seismometer for Lunar Exploration	Don Strayer	NASA/JPL
11:05	High Resolution Multi Pixel Arrays in the X Ray	Melville Ulmer	Northwestern University
11:15	Photon Counting Sensors for Future Missions	Dr. Oswald Siegmund	Univ. California - Berkeley
11:25	Cathodoluminescence for Planetary Probes	Jane MacGibbon	Univ. of North Florida
11:35	Automatic Processing LIDAR Data and 3D Terrain Models	Dr. Nick Gorkavyi	Greenwich Institute for Science & Technology
11:45	Lunch		
	Solid-State Laser Transmitter for Spaceborne and High-Altitude	Jinxue Wang	Raytheon Space &

	1:10	Photon-Counting, 3D Imaging LIDARs	John Degnan	Sigma Space Corp.
	1:20	Laser Architecture Risk & Trade Study for Future Space Altimetry Measurements	Jim Abshire	NASA/GSFC
	1:30	Multi-Spectrum Imaging Spectroscopy Sensor	Weijia Zhou	Univ. of Wisconsin-Madison
	1:40	Development of New Radiation Spectrometers For Radiation Dosimetry	Sachidananda R. Babu	NASA/GSFC
	1:50	Mass Spectrometer-on-Chip f(MSOC) for Chemical Species and Isotope Analysis	Seun K. Kahng	NASA/LaRC
	2:00	Interplanetary Beacon: Two-Step Laser Ranging for Solar System Navigation and Science	Konstantin Penanen	NASA/JPL
	2:10	Microwave Remote Sensing	Terence Doiron	NASA/GSFC
	2:20	Small, Low Power Mass Spectrometers for Planetary Exploration, Astrobiology and	Brian G. Jamieson	NASA/GSFC
	2:30	Antenna-coupled high-sensitivity detector arrays for exploration of the universe	Daniel Prober	Yale
	2:40	Results of NASA ESTO Microwave Radar and Radiometry Working Group	David Glackin	Aerospace Corp.
	2:50	Ultra-Low Temperature Solid State Refrigerators for Cryogenic Sensors	Joel Ullom (pres. Benford or Silverberg, GSFC)	NIST Boulder
	3:00	Break -Set-Up for Walk In Papers		

	3:45	**Presentation to the Advanced Planning and Integration Office on Beyond Einstein Technologies**	**Louis Barbier**	**NASA/GSFC**
	4:15	**A System for Measurement of the Starting Instant of Impulsive Transients**	**Lorenzo Peretto**	**University of Bologna, Italy**