

Tech Days 2011 Tuesday June 21

Time	Presenter	Title	Org
Government Technology Needs and NASA SBIR Pre-Solicitation Workshop (OPEN)			
800	Stahl	Welcome	
810	Moore	NASA SMD Technology Status (with an optics focus) Michael R. Moore, Chief Technologist, SMD	NASA
830	Stahl	Summary of NASA OCT Science Instrument, Observatory and Sensor System (SIOSS) Technology Assessment Roadmap.	NASA
850	Stahle	Optical Technology Needs for NASA's Physics of the Cosmos and Cosmic Origins Program	NASA
910	Lawson	Mirror Technology Roadmap for NASA's Exoplanet Exploration Program	JPL
930		COFFEE BREAK	
1000	Lewis	NASA's SBIR Technology Infusion in a New Environment	JPL
1020	Stahl	NASA SBIR Subtopic S2.04 "Advanced Optical Components"	NASA
1040	Arsenovic	NASA SBIR Subtopic S2.05 "Optics Manufacturing and Metrology for Telescope Optical Surfaces"	NASA
1100	Stahl	Update on Parametric Cost Model for Space Telescopes	NASA
1120	Blake	MOIRE	DARPA
1140	Andersen	Photon Sieve Telescopes	USAF Academy
1200		LUNCH	
Optical Metrology Technology (OPEN)			
1300	Wells	Integration, alignment and cryogenic optical testing for the fully assembled JWST primary mirror	ITT
1330	Kimbrough	In-Situ Extended Lateral Range Surface Metrology	4D
1350	Slotwinski	Coherent Laser Radar Metrology System for Large Optical Systems	Pyxisvision
1410	Su	Advancement of Software Configurable Optical Test System	UoAz/ITT
1430	Scharfstein	Cryogenic Optical Metrology Through a Chamber Window	Flexure
1450		COFFEE BREAK	
Active Mirror Technology (OPEN)			
1520	Korde	Beam manipulation using closed loop controlled reflectors	SD-SMT
1540	Sahul	Single Crystal Piezoelectric Devices for Deformable Mirrors and other NASA Applications	TRS
1600	Helmbrecht	Picometer Resolution MEMS Segmented DM	Iris AO
	Helmbrecht	Dielectric Coating of MEMS Deformable Mirrors	Iris AO
1620	Cornelissen	Enhanced Fabrication Process Development for High Actuator Count Deformable Mirrors	BMM
	Cornelissen	Enhanced Reliability MEMS Deformable Mirrors for Space Imaging Applications	BMM
1640		BREAK to Switch from OPEN to ITAR	
Active Mirror Technology & Metrology (ITAR)			
1650	Wu	Hierarchically-Dimensioned Deformable Mirrors with Integrated ASIC Driver Electronics	Microscale
1700	Flint	Electro-Staticly Controlled Thin Film Shell Reflector Subsystem Demonstrator for Hybrid RF/EO Reflector	Mevicon
1730	Gutin	Interferometric Tomography for Metrology on Free-Form Optics	ASI

Tech Days 2011 Wednesday June 22

Time	Presenter	Title	Org
Material & Substrate Technology and Opto-Mechanical Technology (OPEN)			
800	Haber	Quantitative Assessment of Homogeneity in SiC Mirror Blanks via Ultrasound NDC.	Rutgers
820	Tellam	Low Cost High Specific Stiffness Polymer Derived Ceramic Mirror Substrate	UMS
840	Sweeney	Design and Manufacturing considerations for 0.5 to 1.5 m beryllium telescopes for current and future space missions	AXSYS
900	Michel	Advanced Lightweight Metal Matrix Composite Segmented Optic Manufacture	Hardric Lab
920	Bly	Silicon Mirror Status: Vibration Test	NASA
940	Casstevens	Very High Load Capacity Air Bearing Spindle for Large Diamond Turning Machines	DOS
	Casstevens	Low Cost Very Large Diamond Turned Metal Mirror	DOS
1010		COFFEE BREAK	
Optical Fabrication Technology (OPEN)			
1030	Rozzi	Hybrid Manufacturing of Ceramic Mirrors	Creare
1050	Mohring	Fabrication of Axisymmetric Domes and Freeform Surfaces with the UltraForm and UltraSurf Platforms	OptiPro
1110	Fuerschbach	Path to Freeform Optics	U of Roch
1130	Tinker	Tool Wear Stabilization to reduce Mid-spatial Error in Aspheric Grinding	AOS
1150	Xin	Machine Design and Modeling for Polishing X-Ray Mirror Elements	AOS
1210		LUNCH	
1300	Singh	Chemical Mechanical Process for Defect Free Sub-Surface Damage Free Polishing of SiC Mirrors	Sinmat
1320	Mazurenko	Deterministic Chemical Fluid Jet Polishing for High Precision Mirrors	AGILITRON
1340	Tricard	Metrology driven manufacturing: from NIF to lithography optics	Zygo
1400	Nelson	Removing Mid-Spatial Frequency Errors with VIBE	Optimax
	Nelson	Removing Mid-Spatial Frequency Errors on Curved Surfaces with VIBE	Optimax
1430		COFFEE BREAK	
Optical Fabrication Technology (ITAR)			
1500	Nelson	Conformal optic fabrication methods	Optimax
1520	Erickson	Reflective and Transmission Optics: Ductile Mode Machining Advances	TWS
1540	Tanaka	Low Cost, Scalable Silicon Carbide Corrugated Mirrors for Space Telescopes	TREX
1600	Cotton	Non-Contact Optical Metrology of Conformal Windows and Domes using Quad-Probe	ASE Optics
1620	Kuhn	Instrument for straylight detection and diagnosis	Opt-E
1640	Goodman	Dual Band Eyesafe Laser Mirrors	TREX
	Goodman	Minimally Machined HoneySiC Mirrors for Low Areal Cost and Density	TREX
1700	Wang	Scale-up of Nano-Engineered AR Coating Process for Large Plastic Optics	Nanotrons
1730		GOVERNMENT ONLY	

Tech Days 2011 – Thursday June 23			
Time	Presenter	Title	Org
CLOSED (ITAR)			
800	Wellman	Active Hybrid Mirror Technology Development Status	NGX
JWST Status (ITAR)			
830	Glatzel	Status of JWST Flight Mirror Production at L3 IOS Tinsley	Tinsley
JWST Integration and Testing (ITAR)			
850	Wells	Coordinate System Definition and Mirror Placement	ITT
910	Spina	PMSA Integration Demo	ITT
	Spina	SAIF Integration Demo	ITT
940	Coom	ISIM Integration	ITT
1000		COFFEE BREAK	
1030	Ohl	ISIM Integration and Test Plan	GSFC
1110	Keski-Kuha	SSDIF CoC Test Plan	GSFC
1130	Saif	SSDIF Null and Test Concept	GSFC
	Saif	SSDIF Airflow Demo	GSFC
1200		LUNCH	
1300	Wells	JSC GSE CoC TBT CoC Demo	ITT
1320	Kennard	JSC GSE COCOA Status and Plans	ITT
1340	Whitman	JSC GSE ACFs	ITT
1400	Dziak	JSC GSE Isolation	ITT
1420	Levi	JSC GSE Photogrammetry Demo	NGAS
1440		COFFEE BREAK	
1530		TOUR of JWST Assembly Area at GSFC	