

Mirror Tech/SBIR/STTR Workshop 2017 Tuesday Nov 14			
Time	Presenter	Title	Org
Government Technology Needs (OPEN)			
800	Stahl	Welcome	NASA
	NGC	Welcome	NGC
	OSSC	Welcome	OSSC
810	Grant	Collaborative Opportunities within NASA's STMD Portfolio	NASA
830	Thronson	NASA's Physics of The Cosmos and Cosmic Origins Program Office: Investments to Enable Future NASA Strategic Astrophysics Missions	NASA
845	Crill	Technology Needs for Exoplanet Exploration Program	JPL
900	Bolcar	Technology Needs for LUVOIR	NASA
915	Dipirro	Technology Needs for OST	NASA
SBIR Workshop (OPEN)			
930	Lewis	Post-Reauthorization SBIR Technology Infusion and Commercialization	JPL
945	Shaklan	SBIR Topic S2: Advanced Telescope Systems	JPL
1000	COFFEE BREAK		
1030	Stahl	SBIR Subtopic S2.03 Advanced Optical Systems and Fabrication/Testing/Control Technologies for EUV/Optical and IR Telescope overview	NASA
1045	Shiri	SBIR Subtopic S2.04 X-Ray Mirror Systems Technology, Coating Technology for X-Ray-UV-OIR, and Free-Form Optics overview	NASA
SBIR Commercialization Success Story (OPEN)			
1100	Kashalikar	Amorphous Si claddings are deposited at low temperature	Surmet
1120	Carnahan	Optical and Infrared absorbance of nanotube based, optical black coatings and paints	NanoLab
1140	Walker	EELT Prototype Mirror Segments and Beyond - Large Optics and Automation	Zeeko; U-Huddersfield
1200	LUNCH		
OPEN TECHNOLOGY SESSIONS			
Additive Manufacturing Mirror Technology (OPEN)			
1300	Casstevens	Additive Manufactured Very Light Weight Diamond Turned Aspheric Mirror	DOS
1320	Goodman	3D Printed Silicon Carbide Scalable to Meter-Class Segments for Far-IR	Goodman Tech
1340	Strafford	Rapid Fabrication of High Stability Optical Mirror Blanks	Soter Tech
1400	Harrison	Additively Manufactured, Thermally Stable Telescope Mirror Substrates	ASTS
1420	Schaedler	Additive manufacturing of polymer derived ceramics	HRL
1440	PHOTO		
1500	COFFEE BREAK		
Mirror Technology (OPEN)			
1530	Lumpkins	Silica-Silica Mirror Substrate Fabrication Technology	Mentis
1550	Easter	Large-Scale, Low Cost, Molded SiOC Mirror Component	Semplastics
1610	Vayda	Update on Ceraform SiC material	AOX
1630	Hardesty	Matching NiP on Be-38Al for Low Temp Mirrors	Peregrine
Optical Metrology Technology (OPEN)			
1650	Matthews	Developments in Non-Contact Metrology and Data Analytics	Optipro
1710	Olszak	Low Coherence Wavefront Probe for Nanometer Level Free-Form Metrology	Apre
1730	North-Morris	High Speed Interferometry for Evaluating the Vibrational Response of Mounted JWST Segments	4D
1750	Olczak	PHAST: Phased Holographic Aspheric Stitching Technique	Harris
Poster	Markov	Rendering of Spatio-Temporal Dynamic of Deformable Mirrors	AS&T Inc.
1830	NG ACO CLOSED		

Mirror Tech/SBIR/STTR Workshop 2017			
Wednesday Nov 15			
Time	Presenter	Title	Org
Stable Telescope Technology (OPEN)			
800	Livas	Optical Telescope for the LISA Gravitational Wave Observatory	NASA
820	Saif	Ultra-Stable Structures: Develop & Character using Spatial Dynamic Metrology	NASA
840	Hardesty	Advanced Athermal Telescopes	Peregrine
900	Han	Optical characterization of 300 mm SiC mirrors due to thermal variations	KASI
920	Monroe	New Developments in Allvar Alloys	Allvar
940	Fischer	Ultra-Stable Zero-CTE HoneySiC and H2CMN Mirror Support Structures	ASCM
1000	COFFEE BREAK		
1020	Catanzaro	Lightweight, Stable Optical Benches in Silicon Carbide and Beryllium	CFE
Telescope & Instrumentation Technology (OPEN)			
Free-Form Optics (OPEN)			
1040	Harmon	Freeform Optics for Optical Payloads with Reduced Size and Weight	Voxel
1100	Bauer	Analyzing Aberration Fields of Three-mirror Telescope and Correcting them Using Freeform Zernike Surfaces	UoR
1120	Papa	Four-Mirror Freeform Design	UoR
1140	Horvath	Optomechanical Design and Fabrication of a Snap Together Freeform TMA Telescope	UNCC
Poster	Matthews	Freeform Manufacturing	Optipro
1200	LUNCH		
1300	Catanzaro	STOP modeling and Wavefront Sense / Control In support of GHAPS	CFE
1320	Myer	Developments of Fully Monolithic Freeform Telescopes	Optimax
1340	Remon	Combining machine learning, computation & micro-optics to enable reduced SWAP multi-spectral imaging systems	UoUT
X-Ray Technology (OPEN)			
1400	Young	Manufacturing Optics for the Imaging X-ray Polarimeter Explorer (IXPE) Mission	NASA
1420	Pinder	Pre-collimator Chemical Milling for X-ray Telescopes	Mindrum
1440	Tyurina	BeatMark Software to reduce the cost of X-Ray mirror fabrication	Second Star Algonumerix
1500	COFFEE BREAK		
HabEx (OPEN)			
1530	Stahl	HabEx Telescope Structural Design & Performance Prediction	NASA
Coating Technology (OPEN)			
1550	Scowen	Improving UV Coatings & Filters using ALD	ASU
1610	Quijada	Improving LUVOR FUV instrument capabilities through enhanced coatings	NASA
1630	Sheikh	Battery-powered process for coating telescope mirrors in space	Zecoat
1650	Broadway	In-situ stress measurement of single and multilayer thin-films for x-ray optics.	NASA
1710	Lake	Pyramid Nanostructured Coatings for Stray Light Suppression	Applied Sci
1740	Hagopian	Proximity Glare Suppression using Carbon Nanotubes	Lambda
1750	Vijayraghavan	Proximity Glare Suppression for Astronomical Coronagraphy	Nanohmics
Poster	Hamilton	First Contact Polymers Maintain Mirror Reflectivity and their Role in Enabling LIGO and THAAD	Photon Cleaning Tech
1830	NG ACO CLOSED		
1900	RECEPTION until 2200 in Courtyard, if weather in Palladio/DaVinci.		

Mirror Tech/SBIR/STTR Workshop 2017			
Thursday Nov 16			
Time	Presenter	Title	Org
Exoplanet Exploration Program (ExEP) Technology (OPEN)			
800	Trauger	WFIRST Coronagraph Instrument (CGI) Update	JPL
820	Helmbrecht	MEMS Deformable Mirror Development at Iris AO	Iris AO
840	Bierden	MEMS Deformable Mirrors	Boston MM
900	Ziemer	Starshade Technology Activity	JPL
920	Harness	Starshade Subscale Testing/Model Validation	Princeton U
940	Hamilton	Starshade Contamination Control with First Contact Polymers	PCT
1000		COFFEE BREAK	
Telescope Architectures (OPEN)			
1030	Mukkerjee	In-space Assembly of Large Telescopes for Exoplanet Direct Imaging	JPL
1045	MacEwen	Future Assembly and Servicing of Space Telescopes	Reviresco
1100	Coppejans	DOMinate a Deployable Vis-IR Optical Membrane Telescope concept	Northwestern
Poster	Young	Probe Of Extreme Multi-Messenger Astrophysics (POEMMA) Instrument and Mission details	NASA
Active Control Technology (OPEN)			
1120	Wu	Next-Generation Deformable Mirrors for Astronomical Coronagraphy by Utilizing PMN-PT Single Crystal Stack Actuators in integration with Driver ASIC	Microscale
1140	Cavaco	Small Fast Steering Mirrors with control devices	AOX
1200		LUNCH	
ITAR TECHNOLOGY SESSIONS			
AMTD (ITAR)			
1300	Stahl	AMTD Final Results	NASA
1315	Egerman	AMTD-2: Stacked Core ULE® Mirror	Harris
1330	Eng	1.5-m ULE® Cryo & Mechanical Test Results	NASA
1345	Brooks	Computed Tomography and Stiction in a Low Temperature Slumped Mirror	NASA
Mirror Technology (ITAR)			
1400	Dunn	Primary Mirror Fabrication for Rotating Synthetic Aperture (RSA) Imaging	UTAS
1420	Southard	3D Printing of Ultra-Low Expansion (ULE®) Glass	UTAS
1440	Mooney	Advanced Mirror Construction – ULE® Replication	Harris
1500		COFFEE BREAK	
JWST (ITAR)			
1530	Feinberg	OTE/ISIM Integration and Test Summary	NASA
1550	Keski-Kuha	Ambient Center of Curvature Testing	BATC
1610	Daly	OTIS Ambient I&T	Harris
1630	Texter	Deployment Tests and Results	NGST
1650	Wells	JWST Primary Mirror Cryogenic Phasing and Performance Testing at JSC	Harris
1710	Knight	Early Cryo-Optical Test Results	BATC
1730	Whitman	Early Cryo-Photogrammetry Results	Harris
1750		GOVERNMENT ONLY	
1830		NG ACO CLOSED	