

**CENTER OF EXCELLENCE FOR COMMERCIAL SPACE TRANSPORTATION
7TH ANNUAL TECHNICAL MEETING
(COE CST ATM7)**



Tuesday, October 10, 2017
Hotel Encanto, Las Cruces, NM



**Final – October 6, 2017
MORNING PROGRAM**

<i>Start</i>	<i>Agenda Item</i>	
7:30 AM	<i>Meeting Registration and Breakfast</i> <i>Hotel Encanto de Las Cruces, San Rafael Ballroom</i> <i>(Group Photo #1 at 8:15 AM)</i>	
8:30 AM	<i>ATM7 OPENING</i> <ul style="list-style-type: none"> ● Dr. James M. Vanderploeg, COE CST Executive Director <i>NEW CORE MEMBER & AFFILIATES OVERVIEW</i> <ul style="list-style-type: none"> ● Dr. Jeff Sutton, Baylor College of Medicine ● Mr. David Zuniga, Danish Aerospace Company ● Dr. Moriba Jah, University of Texas-Austin ● Dr. Tristan Fiedler, FIT, Additional Members <i>COE CST YEAR 7 STATUS</i> <ul style="list-style-type: none"> ● Ms. Evelina Bern and Mr. Ken Davidian, FAA AST 	
9:30 AM	<i>Comments on INDUSTRY VIABILITY Research</i> <ul style="list-style-type: none"> ● Mr. Ken Davidian, FAA AST 	
9:45 AM	<i>HUMAN SPACEFLIGHT RESEARCH PANEL – Part 1</i>	
	<u>Moderator</u> <ul style="list-style-type: none"> ● Dr. Dave Klaus, CU 	<u>Panelists</u> <ul style="list-style-type: none"> ● Dr. David Klaus (320-CU, Commercial Spaceflight Risk Assessment) ● Dr. Rebecca Blue (308-UTMB, Suborbital SFP Anxiety Assessment) ● Dr. Tarah Castleberry (309-UTMB, Suborbital Pilot Training) ● Dr. Jim Vanderploeg (310-UTMB, Increasing Cabin Survivability)
10:30 AM	<i>Sponsored Break</i>	
11:00 AM	<i>HUMAN SPACEFLIGHT RESEARCH PANEL – Part 2</i>	
	<u>Moderator</u> <ul style="list-style-type: none"> ● Dr. Dave Klaus, CU 	<u>Panel Discussion and Future Work</u> <ul style="list-style-type: none"> ● Dr. David Klaus (353-CU, Human Factors - Vehicle Design Focus) ● Dr. Jim Vanderploeg (353-BCM, Human Factors - Physiological Focus)
12:00 PM	<i>Sponsored Lunch</i> <i>(Group Photo #2 at 12:45 PM)</i>	

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**Final – October 6, 2017
AFTERNOON PROGRAM**

<i>Start</i>	<i>Agenda Item</i>		
1:00PM	<p><i>SPACE TRAFFIC MANAGEMENT PANEL</i></p> <table border="0"> <tr> <td style="vertical-align: top;"> <p><u>Moderator</u></p> <ul style="list-style-type: none"> • Dr. Mykel Kochenderfer, Stanford </td> <td style="vertical-align: top;"> <p><u>Panelists</u></p> <ul style="list-style-type: none"> • Dr. Sigrid Close (186-SU, Probabilistic Debris Model Development) • Ms. Marielle Pellegrino for Dr. Dan Scheeres (187-CU, Space Situational Awareness) • Dr. Mykel Kochenderfer and Rachel Tompa (331-SU, Advanced 4D Special Use Airspace) • Dr. Joe Kleespies (319-UF, DebrisSat) • Dr. Bill Lash (MITRE Associate Task) • Mr. Sven Kaltenhaeuser (Associate DLR-Interoperable Air and Space Traffic Management) <p><u>Future Work</u></p> <ul style="list-style-type: none"> • Dr. Moriba Jah (371-NMSU/UT Austin Space Object Database) • Dr. Tim Fuller-Rowell (186-CU, Whole Atmosphere Model Development) • Dr. Penina Axelrad, (367-CU, CubeSat Deployment Tracking) </td> </tr> </table>	<p><u>Moderator</u></p> <ul style="list-style-type: none"> • Dr. Mykel Kochenderfer, Stanford 	<p><u>Panelists</u></p> <ul style="list-style-type: none"> • Dr. Sigrid Close (186-SU, Probabilistic Debris Model Development) • Ms. Marielle Pellegrino for Dr. Dan Scheeres (187-CU, Space Situational Awareness) • Dr. Mykel Kochenderfer and Rachel Tompa (331-SU, Advanced 4D Special Use Airspace) • Dr. Joe Kleespies (319-UF, DebrisSat) • Dr. Bill Lash (MITRE Associate Task) • Mr. Sven Kaltenhaeuser (Associate DLR-Interoperable Air and Space Traffic Management) <p><u>Future Work</u></p> <ul style="list-style-type: none"> • Dr. Moriba Jah (371-NMSU/UT Austin Space Object Database) • Dr. Tim Fuller-Rowell (186-CU, Whole Atmosphere Model Development) • Dr. Penina Axelrad, (367-CU, CubeSat Deployment Tracking)
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3:00PM	<i>Sponsored Break</i>		
3:30PM	<p><i>TECHNOLOGY PANEL</i></p> <table border="0"> <tr> <td style="vertical-align: top;"> <p><u>Moderator</u></p> <ul style="list-style-type: none"> • Dr. Andrei Zagrai, NMT </td> <td style="vertical-align: top;"> <p><u>Panelists</u></p> <ul style="list-style-type: none"> • Dr. Rajan Kumar (325-FSU, Optical Measurements of Rocket Thrust) • Dr. Bin Lim (299-NMT, Nitrous Oxide Composite Tank Testing) • Dr. Andrei Zagrai (323-NMT, Structural Health Monitoring Framework) • Dr. Subith Vasu (311-UCF, LED Absorption Sensor) • Drs. Jan Gou & Jay Kapat (253-UCF, Composite TPS Material) • Mr. Brian Barnett (Affiliate 307-SSC/NMSU COTS Satellite Comms) <p><u>Future Work</u></p> <ul style="list-style-type: none"> • Dr. Billy Oates (241-FSU, High Temperature, Optical Sapphire Pressure Sensors) </td> </tr> </table>	<p><u>Moderator</u></p> <ul style="list-style-type: none"> • Dr. Andrei Zagrai, NMT 	<p><u>Panelists</u></p> <ul style="list-style-type: none"> • Dr. Rajan Kumar (325-FSU, Optical Measurements of Rocket Thrust) • Dr. Bin Lim (299-NMT, Nitrous Oxide Composite Tank Testing) • Dr. Andrei Zagrai (323-NMT, Structural Health Monitoring Framework) • Dr. Subith Vasu (311-UCF, LED Absorption Sensor) • Drs. Jan Gou & Jay Kapat (253-UCF, Composite TPS Material) • Mr. Brian Barnett (Affiliate 307-SSC/NMSU COTS Satellite Comms) <p><u>Future Work</u></p> <ul style="list-style-type: none"> • Dr. Billy Oates (241-FSU, High Temperature, Optical Sapphire Pressure Sensors)
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5:30PM	<p><i>CLOSING REMARKS</i></p> <ul style="list-style-type: none"> • Dr. Jim Vanderploeg, et al. 		
5:45PM	<i>Adjourn</i>		

