

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

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Tuesday, October 10, 2017  
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**Final – October 6, 2017  
AFTERNOON PROGRAM**

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

# Map of COE CST Member Distribution

