

FAA CENTER OF EXCELLENCE FOR COMMERCIAL SPACE TRANSPORTATION TENTH ANNUAL TECHNICAL MEETING AGENDA Wednesday, October 28, 2020

It is recommended that you preview the Presentation Videos
prior to the meeting for a more robust participation

FINAL 10/27/2020

U.S. EDT	AGENDA ITEM
11:00 AM	Pre-Conference Videos – Overview of FAA AST Commercial Space R&D
11:30 AM	WELCOME & OPENING REMARKS
	<ul style="list-style-type: none"> ➤ Dr. Dave Klaus, COE CST Executive Director, University of Colorado Boulder ➤ Dr. Ken Davidian, FAA Office of Commercial Space Transportation
11:45 AM	PANEL 1: AEROSPACE ACCESS & OPS RESEARCH
	<ul style="list-style-type: none"> ➤ 186-SU. Mitigate Threats through Space Environment Modeling/Prediction ➤ 367-CU. CubeSat Cluster Deployment Tracking ➤ 371-NMSU/UTA. Space Object Database ➤ 372-CU. Resident Space Object System Mechanics ➤ 375-DLR. Interoperable Air and Space Traffic Management ➤ 397-FIT. Measurements of Thunderstorm Electrical Parameters ➤ 399-UCF. Space Object Uncertainty Quantification, Probability of Collision ➤ Dr. Sigrid Close, Stanford ➤ Dr. Penina Axelrad, CU Boulder ➤ Dr. Moriba Jah, UT Austin ➤ Dr. Dan Scheeres, CU Boulder ➤ Mr. Sven Kaltenhaeuser, DLR ➤ Dr. Amitabh Nag, FIT ➤ Dr. Tarek Elgohary, UCF
12:45 PM	Break (Student auto-biographical videos)
1:00 PM	PANEL 2: AEROSPACE VEHICLES RESEARCH
	<ul style="list-style-type: none"> ➤ 241-FSU. High Temp, Optical Sapphire Pressure Sensors ➤ 253-UCF. Ultra-High Temp Composites for Thermal Protection Systems ➤ 311-UCF. LED-Based Low-Cost Gas Sensor for Crew and Vehicle Safety ➤ 323-NMT. Structural Health Monitoring Framework ➤ 325-FSU. Optical Measurements of Rocket Nozzle Thrust and Noise ➤ 377-NMT. Nitrous Oxide Composite Case Testing ➤ 406-ARC. Aircraft Vulnerability Testing and Modeling ➤ 407-ARC. Conditional Risk Investigation ➤ 410-ARC. Improved Population Clustering Follow-up ➤ Dr. Billy Oates, FSU ➤ Drs. Jay Kapat/Jan Gou, UCF ➤ Dr. Subith Vasu, UCF ➤ Dr. Andrei Zagrai, NMT ➤ Mr. Dale Amon, Immortal Data ➤ Dr. Rajan Kumar, FSU ➤ Dr. Bin Lim, NMT ➤ Mr. Ryan Schnalzer, ARCTOS ➤ Dr. Wije Wathugala, ARCTOS ➤ Dr. Wije Wathugala, ARCTOS
2:00 PM	Break (Student auto-biographical videos)
2:15 PM	PANEL 3: HUMAN SPACEFLIGHT & OPS RESEARCH
	<ul style="list-style-type: none"> ➤ 396-CU. Mapping Life Support System Functions and Technologies ➤ 398-FIT. Human Input Systems for Commercial Space Transportation ➤ 400-UTMB. Commercial Space Occupational Medicine Health Standards ➤ Dr. David Klaus, CU Boulder ➤ Dr. Tom Eskridge, FIT ➤ Dr. Ed Powers, UTMB
3:00 PM	Break (Student auto-biographical videos)
3:15 PM	PANEL 4: INDUSTRY INNOVATION RESEARCH
	<ul style="list-style-type: none"> ➤ Suborbital Tourism Industry Emergence Data and Processes ➤ 378-FIT. Commercial Space Innovation Initiative Policy Research ➤ 380-NMSU. Spaceport Industry Emergence & Operations Online Reference ➤ 395-FIT. Small Launch Vehicle Sector: Industry Dynamics and Policy ➤ 402-FIT. Satellite Constellation Industry Dynamics ➤ Dr. Ken Davidian ➤ Dr. Greg Autry ➤ Dr. Patricia Hynes, NMSU ➤ Dr. Andy Aldrin, FIT ➤ Dr. Andy Aldrin, FIT
4:00 PM	CLOSING REMARKS

Abbreviations: CU-University of Colorado Boulder, DLR-Deutschen Zentrums für Luft- und Raumfahrt (German Aerospace Center), FIT-Florida Institute of Technology, FSU-Florida State University, McGill-McGill University, NMSU-New Mexico State University, NMT-New Mexico Institute of Mining and Technology, Stanford-Stanford University, UCF-University of Central Florida, UF-University of Florida, UNF-University of Northern Florida, UT-University of Texas, UTMB-University of Texas Medical Branch at Galveston

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