



WITH SUPPORT FROM:



Aerospace Policy Solutions, LLC



Achieving Space Environmentalism and Sustainability by Creating a Circular Space Economy
9th Annual Space Traffic Management Conference
Bass Lecture Hall, LBJ School of Public Affairs
The University of Texas at Austin
1-2 March 2023

1 March

- 8:00-9:00 am Registration and Breakfast: Bass Lecture Hall Lobby
- 9:00-9:15 am Welcome: Moriba Jah, *Space Security, Safety, and Sustainability Lead, Strauss Center for International Security and Law, UT Austin*, and John Schumacher, *President, International Academy of Astronautics*
- 9:15-9:20 am Introduction by William Woods, *Lead Scientist, NorthStar Earth and Space*
- 9:20-10:15 am Keynote: Mark Baird, *President, Virgin Orbit National Systems*
- 10:15-10:30 am Speaker 1: “Socio-Technical Enablers for a Circular Space Economy” Harvey Reed, *Blockchain Capability Lead, MITRE*
- 10:30-10:45 am Speaker 2: “Space in the Emerging Economies of Latin America; An Investigation Through the Lens of a Macro-Environmental Framework” Sophia Gustely, *Aerospace Business Analytics Master’s candidate, Embry-Riddle Aeronautical University*, and Adriana Ordonez Lizarraga, *M.B.A. candidate, Embry-Riddle Aeronautical University*
- 10:45-11:00 am Break
- 11:00-12:00 pm Panel 1: Space Reusability – Moderator: Ruth Stilwell, *Executive Director, Aerospace Policy Solutions, LLC*
- Jacob Bouchard
 - Ana Carrasco
 - Phillip Cunio

12:00-12:55 pm	Lunch: Bass Lecture Hall Lobby <i>Sponsored by NorthStar Earth and Space</i>
12:55-1:00 pm	IAA certificate presentation to new members
1:00-1:15 pm	Speaker 3: “Space environment investigation using a space debris index” Andrea Muciaccia, <i>Ph.D. candidate, Politecnico di Milano</i>
1:15-1:30 pm	Speaker 4: “Merging sets of conjunction warnings coming from independent trusted sources” Curt Bilby, <i>Managing Director and CFO, Share My Space</i>
1:30-2:30 pm	Panel 2: Space Sustainability (1) – Moderator: Therese Jones, <i>Senior Director of Policy, Satellite Industry Association</i> <ul style="list-style-type: none"> • Shannon Sylvie Abelson, <i>Ph.D. candidate, Philosophy, Indiana University Bloomington</i> • LaQuila Alonzo, <i>Senior, Embry-Riddle Aeronautical University</i> • Dan Hawk, <i>Principal Scientist, United First Nations Planetary Defense</i> • Janet Tinoco, <i>Systems Engineer and Professor of Management and Marketing, Embry-Riddle Aeronautical University</i>
2:30-2:45 pm	Break
2:45-3:45 pm	Panel 3: Space Sustainability (2) – Moderator: Rebeca Griego, <i>Systems Engineer, Astroscale</i> <ul style="list-style-type: none"> • Nathaniel Dailey, <i>Principal Architect Space Engineering, MITRE</i> • Douglas Hendrix, <i>CEO and Chairman, ExoAnalytic Solutions</i> • Ruth Stillwell, <i>Executive Director, Aerospace Policy Solutions, LLC</i>
3:45-5:15 pm	Networking Reception: Bass Lecture Hall Lobby <i>Sponsored by Aerospace Policy Solutions and Slingshot Aerospace</i>

2 March

8:30-9:00 am	Breakfast: Bass Lecture Hall Lobby <i>Sponsored by Astroscale</i>
9:00-9:05 am	Introduction by Charlie McGillis, <i>SVP of Government Relations & Strategy, Slingshot Aerospace</i>
9:05-10:00 am	Keynote: Dr. Richard DalBello, <i>Director, Office of Space Commerce, National Oceanic and Atmospheric Administration, U.S. Department of Commerce</i>
10:00-10:15 am	Speaker 5: “Feasibility Analysis of On-Orbit Debris Detection Using Commercial Star Trackers” Allan Shtofenmakher, <i>Ph.D. candidate, Aeronautics and Astronautics, MIT</i>
10:15-10:30 am	Speaker 6: “Satellite Characterization Using TFC and Machine Learning” Allan Kardec de Almeida Junior, <i>Researcher, Telecommunications Institute</i>
10:30-10:45 am	Break

10:45-11:45 am	<p>Panel 4: AI for Space – Moderator: Moriba Jah, <i>Space Security, Safety, and Sustainability Lead, Strauss Center for International Security and Law, UT Austin</i></p> <ul style="list-style-type: none"> • Benjamin Fuege-Miller, <i>Ph.D candidate, Oden Institute for Computational Engineering and Sciences, UT Austin</i> • Andrew Garza • Thomas Roberts, <i>Ph.D. candidate, Aeronautics and Astronautics, MIT</i> • Haley Solera, <i>S.M. candidate, Aeronautics and Astronautics, MIT</i>
11:45-12:00 pm	<p>Speaker 7: “Green and Circular Space Systems Through Environmental Lifecycle Assessment” Grant Cates</p>
12:00-1:00 pm	<p>Lunch: Bass Lecture Hall Lobby <i>Sponsored by Privateer</i></p>
1:00-2:00 pm	<p>Panel 5: Security – Moderator: Charlie McGillis, <i>SVP of Government Relations & Strategy, Slingshot Aerospace</i></p> <ul style="list-style-type: none"> • Travis Blake, <i>Program Office, Space Traffic Coordination, NASA</i> • Nathaniel Dailey, <i>Principal Architect Space Engineering, MITRE</i> • Kaitlyn Johnson, <i>Deputy Director and Fellow, Aerospace Security Project, Center for Strategic and International Studies</i>
2:00-2:15 pm	<p>Break</p>
2:15-2:30 pm	<p>Speaker 8: “MOCAT-SSEM: A Source-Sink Evolutionary Model for Space Debris Environment Evolutionary Modeling” Dan Jang, <i>Ph.D. candidate, Department of Aeronautics, MIT</i></p>
2:30-3:30 pm	<p>Panel 6: Nuanced Solutions – Moderator: Becky Cudzilo, <i>Engineering Fellow, Astroscale</i></p> <ul style="list-style-type: none"> • Pietro De Marchi, <i>Space Systems Engineer, AIKO</i> • Ralph Dinsley, <i>Senior Advisor, Raytheon NORSS</i> • Scott Dorrington, <i>Postdoctoral Researcher, MIT</i> • Emma Loudon, <i>Ph.D. candidate, Astrophysics, Yale University</i> • Mauricio Martinez
3:30 pm	<p>Closing Comments: Moriba Jah</p>