

**Space Technology
Industry-Government-University
Roundtable (STIGUR)**

September 29, 2022

Hybrid Meeting

NASEM Keck Center, Room 101

500 Fifth St. N.W., Washington, D.C.

Livestream: <https://vimeo.com/event/2448468>

AGENDA

as of 9/22/2022

Time Start (ET)	Time Stop (ET)	Topic	Speaker
10:30a	10:40a	Introductions and Welcome	<ul style="list-style-type: none"> • Wanda Sigur, Chair, STIGUR • Jim Reuter, Associate Administrator, NASA Space Technology Mission Directorate (STMD)
10:40a	11:30a	STMD Changes, Progress, Plans, and Budget Impacts	<ul style="list-style-type: none"> • Jim Reuter
<i>Discussion Questions</i> <ul style="list-style-type: none"> • <i>How well aligned are the plans, progress, and strategies to STMD goals? To overall NASA goals? To Moon to Mars objectives?</i> • <i>How is value demonstrated?</i> 			
11:30a	11:45a	Discussion	All
11:45a	12:30p	Small Spacecraft Program	<ul style="list-style-type: none"> • Chris Baker, NASA STMD
<i>Discussion Questions</i> <ul style="list-style-type: none"> • <i>Is progress consistent with emerging expectations of roles of small spacecraft?</i> • <i>What technologies are associated with small spacecraft science? New mission assignments?</i> 			
12:30p	1:15p	Working Lunch	

Time Start (ET)	Time Stop (ET)	Topic	Speaker
1:15p	2:15p	Orbital Debris Policy, Requirements, and Challenges <ul style="list-style-type: none"> • Orbital Debris Perspectives and Programs, incl. Grand Challenges and Prizes, • Policy challenges • Debris Remediation Technologies • Hypervelocity Research & Risks, • Technology Gaps, including sensors • ORBITS Act • National Orbital Debris Implementation Plan 	<ul style="list-style-type: none"> • Jer Chyi (J.-C.) Liou, NASA Chief Scientist for Orbital Debris • Adam Brodtkin, National Space Society • Trudy Kortess, NASA STMD • Carolyn Mercer, NASA Science Mission Directorate • Marlon Sorge, Aerospace Corporation
Questions for the Panel <ul style="list-style-type: none"> • <i>Orbital Debris Perspectives - status, criticality, opportunity: How serious are these issues? What are our timelines?</i> • <i>Of the many missions for addressing orbital debris, which are most critical and why?</i> • <i>National Orbital Debris Implementation Plan: What opportunities and challenges are introduced by policy? What are the key role and impacts?</i> • <i>What future are you hoping to enable?</i> • <i>What are your thoughts, opportunities, and future of orbital debris removal/ management as a service?</i> • <i>What are your perspectives on the proposed ORBITS Act?</i> 			
2:15p	3:15p	Orbital Debris Strategies and Approaches <ul style="list-style-type: none"> • Deorbit Guideline Strategies • Commercial Incentives and Involvement • Debris Remediation Technologies and Impacts (Active Debris Remediation) 	<ul style="list-style-type: none"> • Bo Naasz, NASA STMD • Chris Lewicki, Interplanetary Enterprises • John Karas, Lockheed Martin Space Systems Company • Clare Martin, Astroscale U.S. • TBD, SpaceWERX
Questions for the Panel <ul style="list-style-type: none"> • <i>What are the opportunities you see in policy? What could be done? Thoughts on the proposed ORBITS Act? Does it enable large scale change?</i> • <i>What do you consider to be useful guidance? What deorbit guideline strategies would drive action and investment?</i> • <i>What is the potential role of commercial incentives and involvement? Of Grand Challenges and Prizes?</i> 			
3:15p	3:45p	<i>Break</i>	
3:45p	4:30p	Orbital Debris Enabling Technology Discussion by STIGUR	Kick off dialogue with reminder on what success looks like (5 min from Jim Reuter)
Discussion Questions <ul style="list-style-type: none"> • <i>What are the technology gaps, including sensors? Bright spots and possible solutions?</i> • <i>What are the roles for STMD in this complex solution space? What should be the priorities?</i> 			
4:30p	5:00p	Comments & Feedback	All