



2023 NASA'S GODDARD SPACE FLIGHT CENTER PRESENTATIONS

TECHNICAL SESSIONS

Day	Time (Mountain Time)	Technical Session	Presentation Title	Presenter(s)
Saturday, August 5, 2023	11:00 AM	Missions at Scale - Research & Academia	Developing Intelligent Space Systems: A Roadmap and Survey	Mary Dahl - NASA Goddard Space Flight Center; Kerri Cahoy, Christine Page - Massachusetts Institute of Technology; Evana Gizzi - NASA Goddard Space Flight Center
Saturday, August 5, 2023	5:00 PM	Next on the Pad - Research & Academia	On-Orbit Results from the NASA Time-Resolved Observations of Precipitation structure and Storm Intensity with a Constellation of Smallsats (TROPICS) Mission	W. Blackwell - MIT Lincoln Laboratory; D. Adams - Kongsberg Satellite Services AS; S. Braun - NASA Goddard Space Flight Center; K. Cahoy, J. Chew - Massachusetts Institute of Technology; S. Cooke - NASA Langley Research Center; D. Crompton, A. Cunningham - MIT Lincoln Laboratory
Monday, August 7, 2023	10:00 AM-12:00 PM	Side Meeting-Location: ESLC 130	NASA Town Hall	
Monday, August 7, 2023	3:30-4:30 PM	Side Meeting-Location: ESLC 46	Distributed Systems Missions (DSM) and the NASA Operational Simulator for small satellites (NOS3)	John Lucas, NASA Goddard Space Flight Center
Tuesday, August 8, 2023	8:00 AM	Science/Mission Payloads	The Pandora SmallSat: Mission Overview	Jordan Karburn, Hilary Johnson - Lawrence Livermore National Laboratory; Knicole Colon, Thomas Barclay - NASA Goddard Space Flight Center; Maricris Schneider, Pete Supinskas - Lawrence Livermore National Laboratory; Jessie Dotson, Elisa Quintana - NASA Goddard Space Flight Center
Tuesday, August 8, 2023	3:30-4:30 PM	NASA SHORT TALKS 1-Location: Fieldhouse		
Wednesday, August 9, 2023	3:30-4:30 PM	NASA SHORT TALKS 2-Location: Fieldhouse		
Wednesday, August 9, 2023	2:15 PM	Advanced Technologies I	BRAINSTACK – A Platform for Artificial Intelligence & Machine Learning Collaborative Experiments on a Nano-Satellite	Marcus Murbach - NASA Ames; Janette Briones - NASA Goddard; Eric Barszcz, Alejandro Salas, Avery Brock, Stanley Krzesniak, Seth Schisler, Jose Alvarelos - NASA Ames
Thursday, August 10, 2023	ALTERNATE	Advanced Technologies II	NASA Operational Simulator for SmallSats (NOS3) – Design Reference Mission	Matthew Grubb, John Lucas, Justin Morris, Mark Suder, Scott Zemerick - NASA Independent Verification and Validation

2023 GODDARD PRESENTATIONS CONT.

POSTERS

Day	Time (Mountain Time)	Technical Session	Presentation Title	Presenter(s)
Saturday, August 5, 2023	Dedicated Viewing Time 10:15 - 11:00 AM; 3:30 - 4:15 PM	Weekend Poster Session I	Artificial Intelligence Fault Mitigation for Satellite Swarms	James Staley - Tufts University; Kerri Lu, Elaine Short, Evana Gizzi - NASA Goddard Space Flight Center
Saturday, August 5, 2023	Dedicated Viewing Time 10:15 - 11:00 AM; 3:30 - 4:15 PM	Weekend Poster Session I	Hybrid Free Space Optical and RF Communications for SmallSat Constellations and Lunar Missions	Ethan Abele, John O'Hara - Oklahoma State University; Sabit Ekin - Texas A&M; Serhat Altunc, Obadiah Kegege, Behnam Azimi - NASA Goddard Space Flight Center; Peter LoPresti - University of Tulsa; Kevin Lynaugh - Vulcan Wireless
Tuesday, August 8, 2023	Dedicated Viewing Time: 9:45 - 10:45 AM	Poster Session 1	An Autonomous Agent Framework for Constellation Missions: A Use Case for Predicting Atmospheric CO2	Mark Moussa, Matt Brandt, Daniel Rogers, Bethany Theiling, James MacKinnon, Shannon Bull - NASA Goddard Space Flight Center
Tuesday, August 8, 2023	Dedicated Viewing Time: 9:45 - 10:45 AM	Poster Session 1	NASA SpaceCube Next-Generation Artificial-Intelligence Computing for STP-H9-SCENIC on ISS	Alessandro Geist, Gary Crum, Cody Brewer, Dennis Afanasev, Sebastian Sabogal, David Wilson, Justin Goodwill, James Marshall - NASA Goddard Space Flight Center
Tuesday, August 8, 2023	Dedicated Viewing Time: 3:30 - 4:30 PM	Poster Session 2	Distributed Spacecraft Mission (DSM) Plume Design Reference Mission (DRM) Inter-satellite link Modeling, Analysis and Simulation	Yen Wong, Robert Morgenstern - NASA Goddard Space Flight Center
Wednesday, August 9, 2023	Three minute flash talks on a variety of topics. 9:45-10:45 AM	Swiftly Session 2	NASA Electronic Parts and Packaging – SmallSat Reliability	Michael Campola - NASA Goddard Space Flight Center
Thursday, August 10, 2023	Three minute flash talks on a variety of topics. 9:45-10:45 AM	Swiftly Session 3	Access to Space (ATS) Decision Tree (DT) for Science Payloads	Robert Caffrey - NASA Goddard Space Flight Center
Thursday, August 10, 2023	Three minute flash talks on a variety of topics. 9:45-10:45 AM	Swiftly Session 3	The Pandora SmallSat Mission to Characterize Exoplanets and Their Host Stars	Emily Gilbert - Jet Propulsion Laboratory; Elisa Quintana - NASA Goddard Space Flight Center; Jessie Dotson - NASA Ames Research Center; Knicole Colon, Thomas Barclay - NASA Goddard Space Flight Center; Pete Supinskas, Jordan Karburn - Lawrence Livermore National Laboratory; Daniel Apai - University of Arizona

SWIFTIES