



This compendium of live and pre-recorded events is limited to those sponsored by and/or have NASA participation. Visit the SmallSat 2021 website for the complete list of conference events and to confirm scheduled times.

LIVE EVENT

Side Meetings

<https://smallsat.org/conference/side-meetings/>

MONDAY, AUGUST 9

■ 3:00PM MT NASA Town Hall — *Small Spacecraft Systems Virtual Institute*

Technical Sessions

PRE-RECORDED On Demand Talks

[https://smallsat.org/conference/technical sessions](https://smallsat.org/conference/technical%20sessions)

CORRESPONDING
LIVE
Session Q&A
Webinars

NEXT ON PAD

HyTI: Thermal Infrared Spectroscopy from a 6U Platform
— *NASA Jet Propulsion Laboratory*

MON., AUG. 9
11:30AM-1:00PM MT

The NASA Advanced Composite Solar Sail System (ACS3) Flight Demonstration: A Technology Pathfinder for Practical Smallsat Solar Sailing — *NASA Langley Research Center*

11:30AM-1:00PM MT

SCIENCE/MISSION PAYLOADS

Dynamically Controlling Image Integration Onboard the Star-Planet Activity Research CubeSat (SPARCS) — *NASA Jet Propulsion Laboratory*

2:00PM - 3:00PM MT

The EZIE Way to Measure the Ionospheric Electrojets with a Three-CubeSat Constellation — *NASA Jet Propulsion Laboratory*

2:00PM - 3:00PM MT

The Pandora SmallSat: Multiwavelength Characterization of Exoplanets and their Host Stars — *NASA Goddard Space Flight Center; NASA Ames Research Center*

2:00PM - 3:00PM MT

FUTURE DIRECTIONS

Future Directions — *NASA Headquarters*

TUES., AUG. 10
9:00AM - 10:00AM MT

COORDINATING SUCCESSFUL EDUCATIONAL PROGRAMS

Online Small-Sat Knowledge Repositories and Modeling Tools for Risk Reduction and Enhanced Mission Success — *NASA Goddard Space Flight Center*

11:00AM 12:00PM MT

ADVANCED TECHNOLOGIES 1

NASA SpaceCube Edge TPU SmallSat Card for Autonomous Operations and Onboard Science-Data Analysis — *NASA Goddard Space Flight Center*

12:00PM - 1:00PM MT

PROPULSION

A Comparison of the Technological Maturation of In-Space Propulsion Systems from 2018 to 2020 — *NASA Small Spacecraft Systems Virtual Institute*

2:00PM - 3:00PM MT

LIST CONTINUED ON PG 2

SPACE ACCESS	NASA Science Mission Directorate Rideshare Office — <i>NASA Headquarters</i>	WED., AUG. 11 9:00AM - 10:00AM MT
GROUND SYSTEMS	NASA Leveraging Commercial Communication Ground Stations for Small Satellites — <i>NASA Goddard Space Flight Center</i>	12:00PM - 1:00PM MT
CONSTELLATION MISSIONS	Design and Validation of an Autonomous Mission Manager towards Coordinated Multi-Spacecraft Missions — <i>NASA Ames Research Center</i>	2:00PM - 3:00PM MT
ADVANCED TECHNOLOGIES 3	Development of a COTS-Based Propulsion System Controller for NASA's Lunar Flashlight CubeSat Mission — <i>NASA Marshall Space Flight Center</i>	THUR., AUG. 12 9:00AM - 10:00AM MT
FUTURE MISSIONS/ CAPABILITIES	Design and Overview of the Solar Cruiser Mission — <i>NASA Marshall Space Flight Center</i>	11:00AM - 12:00PM MT
	Optical Time Transfer for Bistatic SAR Small Spacecraft — <i>NASA Ames Research Center; NASA Jet Propulsion Laboratory; NASA Goddard Space Flight Center</i>	11:00AM - 12:00PM MT

Swiftly Sessions

PRE-RECORDED On Demand Talks

<https://smallsat.org/conference/swifties>

 NO LIVE Sessions

COMMUNICATIONS	Deployable Optical Receiver Array CubeSat Demonstration — <i>NASA Jet Propulsion Laboratory</i>
PROPULSION	Design and Optimization of Steering Laws for Geocentric Solar Sailing — <i>NASA Langley Research Center; NASA Marshall Space Flight Center</i>
THERMAL	The Active Thermal Architecture: Thermal Control for Small-Satellites — <i>NASA Jet Propulsion Laboratory</i>

NASA Short Talks

PRE-RECORDED On Demand Talks

[https://smallsat.org/conference/nasa short talks](https://smallsat.org/conference/nasa%20short%20talks)

 NO LIVE Sessions

ACS3 – A 12U Solar Sail Technology Demonstration — *NASA Langley Research Center*

Framework for Autonomous Planning of Distributed Space Systems — *NASA Ames Research Center*

Let's Work Together: How Industry Can Help GSFC Achieve SmallSat Technology Goals

— *NASA Goddard Space Flight Center*

NASA Flight Opportunities: Competitive Access to Suborbital Flight Testing — *NASA Ames Research Center*

NASA SSTP's SmallSat Technology Partnerships for Universities — *NASA Ames Research Center*

Novel Communication Experiments in the Nano-Orbital Workshop (NOW) Series, Closing the Link to Geostationary Orbit with Automated Doppler Correction — *NASA Ames Research Center*

Sabertooth Avionics - Improving SWaP, Cost, and Performance in Space Computing — *NASA Jet Propulsion Laboratory*

LIST CONTINUED ON PG 3

Smart Technology for an Autonomous Future — *NASA Langley Research Center*

The SSRI Knowledge Base Tool: An Update and Future Plans — *NASA Goddard Space Flight Center*

Suborbital Flight Testing for SBIR/STTR Funded SmallSat Technologies — *NASA Ames Research Center*

How to Partner with NASA and Use Patented Technologies — *NASA Ames Research Center*

Long-Duration Wear Testing of the ASTRAEUS Hall Thruster: Overview & Status Update — *NASA Jet Propulsion Laboratory*

NASA Art in Space: A Rich History and the PACE-1 Flight Mission — *NASA Ames Research Center*

NASA Posters

<https://smallsat.org/conference/posters/>

GROUND SYSTEMS OPERATIONS

NASA CubeSat/SmallSat Reference Model — *NASA Goddard Space Flight Center*

Navigation and Control Performance Utilizing Precision Formation Flying Along a Propellant Optimized Trajectory for the VTXO Mission

— *NASA Goddard Space Flight Center*

INSTRUMENTATION

BJTs in Space: ELDRS Experiment on NASA Space Environment Testbed

— *NASA Goddard Space Flight Center*

SPACE ACCESS

Using the Decision Tree to Help Scientists Navigate the Commercial Access to Space (ATS) Options — *NASA Goddard Space Flight Center*

SYSTEMS

Model Based Systems Engineering for CubeSat Mission Reliability

— *NASA Johnson Space Center; NASA Jet Propulsion Laboratory*

NASA Exhibits

[https://smallsat.org/exhibitors/exhibit hall](https://smallsat.org/exhibitors/exhibit%20hall)

- NASA Ames Research Center Engineering
- NASA Game Changing Development Program
- NASA Jet Propulsion Laboratory
- NASA Goddard Space Flight Center / Wallops Flight Facility
- NASA Headquarters Space Technology Mission Directorate
- NASA Kennedy Space Center - Launch Services Program
- NASA Marshall Space Flight Center
- NASA Science Mission Directorate