

Collaborations and Partnerships Breakout Session

Three minute speed talks



Overview

- Goal: dive deeper into specific topics
- Opportunities to collaborate or partner
- One round – choose your favorite
- Conversations can continue past 5:15 if speakers are available



Room Assignments

- NASA Flight Opportunities – Crystal IV
- National Space Grant Foundation – Crystal II
- Challenger Center – Crystal VI
- NASA Commercial Crew – Crystal V
- NASA CubeSat Launch Opportunities – Executive Boardroom



Overview

- NASA Flight Opportunities – Suborbital Technology Demonstration – ***Steve Ord***, Flight Opportunities Technology Manager
- National Space Grant Foundation – ***Kevin Freese, Darren Hitt, and Shawna McBride***
- Challenger Center – ***Denise Kopecky***, Vice President of Education
- NASA CubeSat Launch Opportunities – ***TBD***, NASA Advanced Exploration Systems



NASA's Flight Opportunities Program

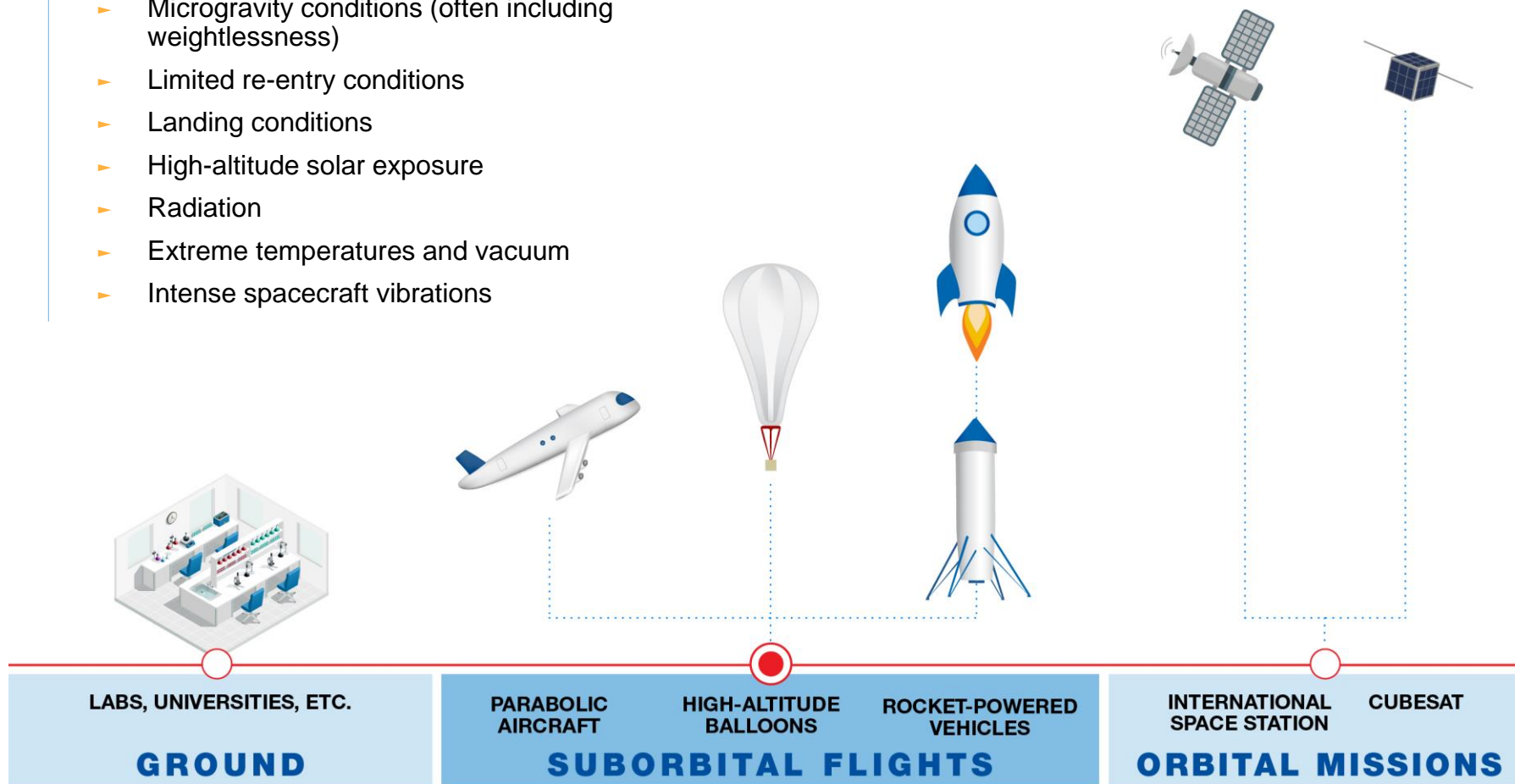
for the testing and maturation of new space technologies

150+
PAYLOADS
FLOWN
SINCE 2010

We provide **suborbital flight demonstrations** that replicate some conditions encountered in space:

- ▶ Microgravity conditions (often including weightlessness)
- ▶ Limited re-entry conditions
- ▶ Landing conditions
- ▶ High-altitude solar exposure
- ▶ Radiation
- ▶ Extreme temperatures and vacuum
- ▶ Intense spacecraft vibrations

We seek **promising experiments** that will help NASA support missions to further the **commercialization & exploration of space**





National Space Grant Foundation

Friday Breakout Session Focus Areas & Timing

- Current & Future Needed “Service” Offerings and Functions 7 Minutes
 - What we do and how are we doing?
 - What could we do new and different?
 - Target “Customer” Expansion
 - Centralization of Functions to Advance Fundraising and Reduce Costs
- Build Case for Support and “Storyboard” and roadmap to Drive Donation and Grant Revenues to Millions/Tens of Millions of Dollars in Augmented Funding 25 Minutes
 - Collection of information – what is needed and why
 - Portrayal of Information
 - Reporting of Information
 - Donor Cultivation, Tracking, Closing
- Resource Needs for Centralized Functions 10 Minutes
- Space Grant Store and Centralization of “Sourcing” Functions 8 Minutes
- Open Discussion and Closing 10 Minutes



Challenger Center Inspiring the Next Generation through STEM.

- Challenger Center seeks to ignite the potential within every student. Through our simulated missions, we open kids' eyes to new skills and ideas that can prepare them for success in their careers and lives – and spark and passion for learning that will last a lifetime.
- This year, Challenger Center will release new lunar resources including a new Mission and engagement day activities for communities and educators nationwide.
- Challenger Learning Centers provide students with the opportunity to experience a unique, hands-on STEM learning environment.
- Our new classroom-based programs, Classroom Adventures, simulate a real-world STEM experience and present students with challenges that require problem-solving, teamwork, communication, and collaboration.

NASA's CubeSat Launch Initiative: Enabling Broad Access to Space



Provides launch opportunities to educational institutions and non-profit organizations who build small satellite payloads that fly as auxiliary payloads on previously planned launches or commercial missions or as International Space Station deployments.



- Learn about resources available to assist in developing a small satellite
 - Understand how to obtain a launch for our satellite
 - Get your questions answered

160 Missions Selected – 88 CubeSats Launched – 93 Organizations

NASA Commercial Crew

Denise Coleman