

NASA SmallSat/CubeSat Mission Technical Interchange Meeting

June 24-26, 2019

NASA Ames Research Center, Mountain View, CA

Monday, June 24, 2019 PRE-MEETING - ARC Conference Center

- 01:30 PM** Meeting Room Opens and Check-In
- 02:00 PM** **Meeting Starts** **B. Yost, J. Fishman, F. Tan, C. Norton**
- Welcome, Introductions, and Logistics
- 02:15 PM** **Navigating SmallSat Development: Where to Begin and What to Expect** **C. Norton, Various**
- Experienced-Based Overview, Suggestions, and Guidance for New Investigators
- 03:30 PM** *Break*
- 06:00 PM** *Adjourn for the day*

Tuesday, June 25, 2019 MAIN SESSION - ARC Conference Center

- 07:30 AM** Meeting Room Opens and Check-In
- 08:30 AM** **Opening Remarks** **D. Korsmeyer, B. Yost, F. Tan, J. Fishman, C. Norton**
- Welcome, Introductions, and Logistics
- NASA SmallSat Agency Integrated Strategic Plan
- 09:00 AM** **Looking Ahead: Missions in Formulation and Development** **R. Wright, F. Lind, S. D'Amico**
- Selected Science, Technology, and Exploration Mission Concepts
- 10:00 AM** *Break (Group Photo)*
- 10:30 AM** **Looking Back: Mission Flight Results**
- Selected Science and Technology Mission Results **C. Ruf, R. Kohnert, T. Johnson**
- 11:30 AM** **The Hard Truth: Mission Failures**
- Selected Experiences from Mission Failure **W. Blackwell, B. Lim**
- 12:15 PM** *Lunch and Informal Discussion*
- 01:30 PM** **Flight System Development: Panel and Open Discussion** **E. Agasid, J. Johnson**
- Requirements, Make vs. Buy, Hardware and Software Development **R. Miller, E. Tsai**
- 02:30 PM** **Requirements and Process: Panel and Open Discussion** **G. Horvat, R. Bishop, D. Mayer**
- Risk Classifications, Procedural Requirements, Testing and Verification **M. Nunes, R. Welle**
- 03:30 PM** *Break*

- 04:00 PM** **Mission Operations: Panel and Open Discussion** **L. Kepko, T. Gaier, C. Ruf, B. Malphrus**
 - Planning, Execution, and Anomaly Recovery
- 04:45 PM** **Keys to Mission Failure and Success: Panel and Open Discussion** **L. Fesq, J. Flynn**
 - Practices, Design Principles, and Engineering Judgement **D. Lewis, B. Swartz**
- 05:30 PM** *Adjourn for the day*
- 06:00 PM** *Group Dinner, Castro Street Restaurant Options, near ARC*

Wednesday, June 25, 2019
MAIN SESSION - ARC Conference Center

- 07:30 AM** Meeting Room Opens and Check-In
- 08:30 AM** **Key Takeaways from Day 1** **F. Tan, C. Norton**
- 09:00 AM** **Programmatics: Panel and Open Discussion** **M. Siang, R. Welle, J. Hudek**
 - Regulatory Issues, Workforce, and Cost Management
- 10:00 AM** *Break*
- 10:30 AM** **Ask Us Anything: Q&A with NASA HQ** **C. Norton, F. Tan,**
 - Open discussion with HQ SmallSat Leadership on PI/PM Needs **M. Garcia, B. Yost**
- 11:15 AM** **DIY vs. Commercial Development: Panel and Open Discussion** **S. Miller, T. Gaier,**
 - Experiences and Thoughts on Parts, Buses, and Infrastructure **X. Li, A. Guarneros Luna**
- 12:15 PM** *Lunch and Informal Discussions*
- 01:30 PM** **Considerations for Space Access: Panel and Open Discussion** **S. Higginbotham, B. Blackwell,**
 - S&MA, Launch Services, and Range Safety Processes **C. Rhoades**
- 02:15 PM** **Open Forum** **Various**
 - Open Discussion on Additional Topics of Interest
 - Review effectiveness of PI/PM meeting and strategies for improvement
- 03:00 PM** **Closing Remarks**
- 03:15 PM** *Networking Break*
- 04:00 PM** *Adjourn for the day*