

Spacecraft Anomalies and Failures (SCAF) Workshop

March 27-28, 2024

*Presentations run from 900-1600 EDT
Check-in begins at 800*

Agenda Topics:

- Spacecraft Anomalies, Failures, and Operations
- Space Environmental Effects and Debris
- Anomaly Recovery Operations and Anomaly Investigations

Objectives:

- Review and share lessons learned from spacecraft anomalies and failures
- Improve tradecraft for anomaly attribution and root cause determination
- Reinforce relationships in the space community that do not regularly interact

Day One:

Open to Public

**NASA Goddard Space Flight Center
Greenbelt, MD**

POC: Joseph Minow
joseph.minow@nasa.gov • 256-544-2850

Day Two:

Requires Clearance TS SCI

**NRO Headquarters Westfields
Chantilly, VA**

POC: Mike Manning
manninmi@nro.mil • 703-808-6170



SCAF 2024: Day 1 Wrap-up

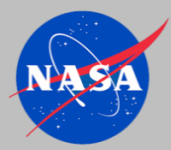
Joseph I. Minow, PhD
Technical Fellow for Space Environments
NASA Engineering and Safety Center
NASA, Marshall Space Flight Center

Spacecraft Anomalies and Failures 2024
27 March 2024, GSFC, Greenbelt, MD

joseph.minow@nasa.gov

Sponsored by NRO and NASA

nasa.gov/nase/conferences/scaf2024

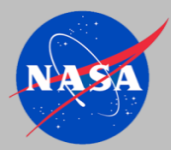


SCAF 204 Final Comments and Wrap-up

- Thank you for your participation in the Day 1 virtual event this year!
- Day 2 sessions, hosted by NRO, start in the morning at NRO Headquarters, Westfields in Chantilly, VA
 - Reminder: Day 2 requires an appropriate security clearance!

Registered Day 1 participants	Total	Virtual	In-person	
○ SCAF 2021, May 2021	146	146		
○ SCAF 2022, January 2022	266	266		
○ SCAF 2023, March 2023	227	74	153	Day 2 total: 141+
○ SCAF 2024, March 2024	385	194	191	Day 2 total: ~300

The organizing team is happy to see the continued interest and support in the workshop!



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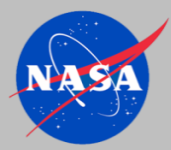
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- Participants represent a cross-section of the US and international aerospace community:

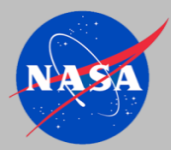
	May 2021	January 2022	March 2023	March 2024
– DOD (NRO, USAF, USSF, Navy, other)	29	13	38	48
– NASA/JPL	18	29	70	132
– Other government	1	9	5	19
– Industry	94	136	103	156
– Academia	2	46	9	27
– Other	5	33	2	3

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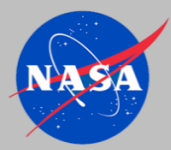
SCAF 2024 Organizing Committee

- Organizing committee:
 - NRO (Day 2): Michael Manning
 - NASA (Day 1): Michael Campola, Mark Matney, Martha Obryan, Linda Neergaard Parker, Mike Squire, Yihua Zheng, Joe Minow
- Conveners:
 - Day 1: Joe Minow, NASA
 - Day 2: Mike Manning, NRO
- Many thanks to:
 - Dustin Barringer: Building 3 audio-visual support
 - Martha Obryan: Visitor badging
 - Linda Parker: Co-chairing of the Day 1 session and working Q&A



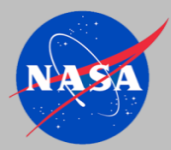
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- SCAF 2024 Day 1 presentations will be posted to a public website and on the high side (pending speaker approval). We will post information at the NASE site and e-mail the link to workshop participants when it is ready:
 - NASA Applied Space Environments (NASE) <https://www.nasa.gov/nase>
 - SCAF 2024 site <https://www.nasa.gov/nase/conferences/SCAF2024>
- Watch for a workshop survey to provide feedback to the organizing team on what worked, what didn't, and suggestions to improve future workshops



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 - We are looking at 2-3 April 2025 for SCAF 2025 (TBD pending confirmation of venue availability and schedule conflicts)
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- Day 1 is adjourned.....