

25th AMOS

Advanced Maui Optical and Space Surveillance Technologies Conference

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A Sense of Space and Place as the AMOS Conference celebrates 25 years

The 2024 AMOS Conference, **September 17-20**, celebrated 25 years at the Wailea Beach Resort, Maui. Presented by Maui Economic Development Board, the premier technical conference in the nation devoted to Space Domain Awareness hosted **1101 in-person** attendees with a further **231 participating virtually**.

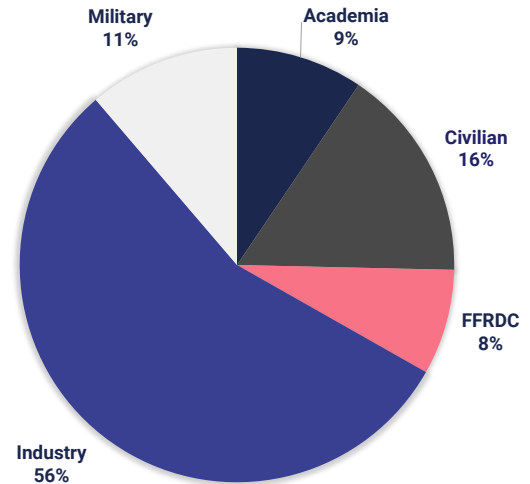
For a quarter century the AMOS Conference has been at the forefront of technical exchange in space situational awareness. AMOS brings together a diverse audience to bridge technical gaps, foster international cooperation, and advance space sustainability. With over half of the audience in the private sector, the trend remains reflective of the continuing commercialization of space and related technologies.

The conference began with a traditional Hawaiian invocation with a reflection and sense of place to set the tone for the week. The message provided guidance and a reminder of responsibility as stewards of the land.

The annual AMOS Conference program featured daily keynote speakers, SSA/SDA policy forums, featured presentations, technical oral and poster sessions, exhibits, short courses and networking receptions. Both in-person and livestream attendees had access to a virtual platform to facilitate networking and collaboration before, during and after the conference.

The Call for Papers drew submissions from **27 countries** with **152 papers** presented as oral or poster presentations.

1332 Participants



"It's the best venue for presenting the research and development and technology that I have developed with my team over the years for space surveillance and space domain awareness. Speaking to a sense of place, she added, Space domain awareness is becoming more and more international and it's more of an allied and international partner effort, which is a good thing because space is global. And we need a global cooperative arrangement so that we can take care of space and monitor the environment and shepherd and be good stewards of our Earth and our space around it."

- Tamara Payne, Technical Subcommittee Chair of the American Astronautical Society (AAS) Space Surveillance Committee

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A Hui Hou (until we meet again)...

September 16-19, 2025

OVERVIEW OF AMOS WEEK



emer-gen[®]

ENHANCING YOUR CAREER IN SPACE

A JOINT INITIATIVE OF THE
AMOS CONFERENCE AND SGAC

KEYNOTE & OPENING REMARKS

Cultural Opening | Kahu Kealahou Alika
Celebrating 25 Years | Paul Kervin
Lt. Gen. Philip A. Garrant, Commander, Space Systems Command
Dr. Hiroshi Yamakawa, President, Japan Aerospace Exploration Agency
Pam Melroy, Deputy Administrator, NASA



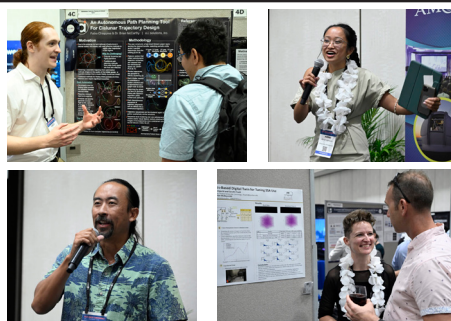
SSA POLICY FORUM

Sustainable Operations of Large Constellations:
The Role of Orbital Carrying Capacity and Other Tools
SSA in the Asia-Pacific: Where We Are, Where We Are Going
Space Weather and SSA – What's Needed Next?



TECHNICAL & POSTER PRESENTATIONS

Atmospheric & Space Weather
Astrodynamics
Cislunar for SDA
Conjunction/RPO
Machine Learning for SDA Applications
Satellite Characterization
Space Based Assets
Space Domain Awareness
Space Debris
SDA & Instrumentation



FEATURED PRESENTATIONS

Space Logistics Drives SDA Architecture
Col Joseph Roth & Col Jeremy Raley
Victus Nox: Tactically Responsive Space - Space Domain Awareness Mission
Lt Col Jason Altenhofen & Gregory Less
Updates on the Traffic Coordination System for Space (TraCSS),
Richard DalBello
Joint Commercial Operations (JCO) Introduction and Way Forward
Barbara Golf



PLUS

Virtual & In-Person Short Courses
AMOS Operators Forum
AMOS Dialogue
Welcome Reception
Poster Pitches
Exhibition & Poster Session Reception
Women & Allies in SDA Reception
MEDB Lipoa Dinner
Space Exploration Student Day
EMER-GEN Outcomes
Conference Closing & Awards Ceremony
Pau Hana Reception



7th Annual EMER-GEN[®] Program
38 Delegates
25 Speakers & Mentors

3 Day Program + Pre-webinars
Hawaii Cultural Speaker
Dear President: The Future of Space
Consensus Building - The Policy Game
Mentoring Session | Career Panel
Innovation Challenge
Technical Short Course
Networking



"My favorite part of the program was the innovation challenge because not only was it a great team exercise, but it was also a great activity that gave me perspective into the importance of policies. As a mechanical engineer student, I am often more focused on the technical and design aspects to ensure mission success, and very few emphases are placed on the potential consequences to the contribution in space debris. Learning about policy helps to become more aware of the problem and develop a mindset for finding solutions rather than contributing to the problem."

- Howin Ma
University of Hawaii at Manoa

