

22ND AMOS Advanced Maui Optical and Space Surveillance Technologies Conference

SEPTEMBER 14-17, 2021
WAILEA BEACH RESORT, MAUI, HAWAII



1076 PARTICIPANTS
667 IN-PERSON | 409 VIRTUAL

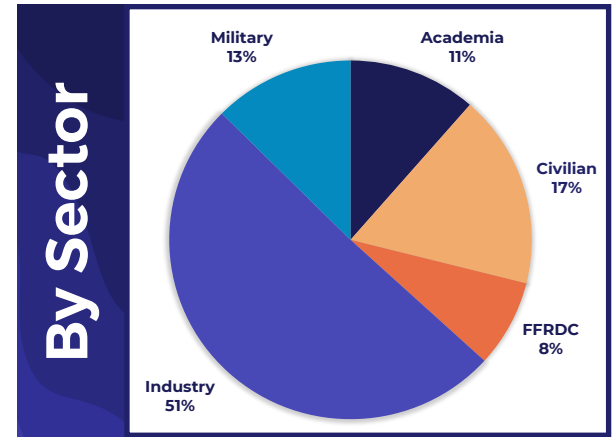


The 22nd Advanced Maui Optical and Space Surveillance Technologies (AMOS) Conference, was hybrid this year, having both in-person and virtual components. The premier technical conference in the nation devoted to Space Situational Awareness (SSA) and Space Domain Awareness (SDA), offered a cross-section of government, academic, and private-sector participation to help foster dialogue and international collaboration.

With meticulous health and safety planning by the AMOS Conference team, it was possible to present a hybrid event which enabled our international partners to contribute to the discussions that help build partnerships, collaborations, and protocols for good actors in the space domain. Since 2013, the presentation of two invited workshops—the AMOS Dialogue and the International SSA Data Operators Forum—provide ongoing opportunities to advance international cooperation and collaboration on space situational awareness.

In addition to the technical sessions, the AMOS Conference included keynote speakers, SSA policy forums, exhibit sessions, technical short courses and networking events. The policy forums, organized in collaboration with Secure World Foundation, were held after the keynote at the start of each day, of the 3-day conference. These sessions brought together the developers and implementers of SSA capabilities and the architects of SSA policy to explore international issues related to space sustainability.

In collaboration with the American Astronautical Society (AAS), the AMOS Conference provided participating authors the opportunity to be published in the peer-reviewed Journal of Astronautical Sciences. At the close of the conference, AAS recognized outstanding efforts by presenting an award for Best Student Paper to Shaylah Mutschler, University of Colorado, Boulder and Best Paper to Maui resident Dr. Channing Chow II, Founder and CEO of Cloudstone Innovations LLC.



"The AMOS Conference brings together a truly unique juxtaposition of academia, industry, and government working collaboratively towards space safety, security, and exploration. Every year AMOS provides the opportunity to share innovative concepts, challenge stagnant norms, and showcase the latest advances in research and development."

- Channing Chow II, Founder and CEO, Cloudstone Innovations LLC



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AMOS PROGRAM AT A GLANCE



4th Annual EMER-GEN® Program
36 Delegates
14 mentors

3 Day Program + Pre Webinars

Networking | Mentoring Session
SBIR Hack-A-Thon
Consensus Building | SSA in Asia
Lokahi - Lessons from the Reef
Decision-Making Under Uncertainty



"EMER-GEN has furthered my career in so many ways. Over the years, the people and contacts I made by participating in the conference remain priceless. The technical courses have provided continuing education in cutting-edge issues, and MEDB's welcome and pau hana receptions offer the cohort a relaxed environment to network and share ideas."

*- Aaron Rosengren,
Asst Professor, Jacobs School of
Engineering, UCSD*



KEYNOTES & OPENING REMARKS

Maj Gen DeAnna M. Burt, Commander, Combined Force Space Component Command, United States Space Command; Vice Commander, Space Operations Command, United States Space Force
Col Scott D. Brodeur, Director of the National Space Defense Center and Director of Operations, Joint Task Force Space Defense
Carine Claeys, EU Special Envoy for Space, European External Action Service



TECHNICAL SHORT COURSES

10 in-person and 4 virtual technical short courses pertaining to an introductory array of SSA/SDA topics were presented



SSA POLICY FORUM

- Lessons Learned from Recent Satellite Servicing Missions
- Large Constellations and Right-of-Way in Space
- Results of the Recent UN Resolution on Norms of Behavior in Space



159 TECHNICAL PRESENTATIONS AND DIGITAL POSTERS

Astrodynamics
Atmospherics/Space Weather
Cislunar SSA
Conjunction/Rendezvous and Proximity Operations
Dynamic Tasking
Machine Learning for SSA Applications
Non-Resolved Object Characterization
Optical Systems & Instrumentation
Space Situational/Domain Awareness

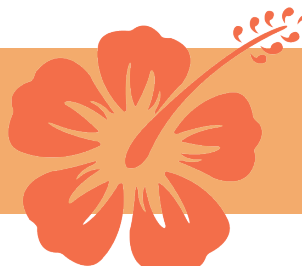
INVITED TALKS

Col Eric J. Felt, Director, Space Vehicles Directorate, Air Force Research Laboratory
Col Joseph J. Roth, Director, Innovation & Prototyping, Air Force Space & Missile Systems Center
Dr. Kelly D. Hammett, Director, Directed Energy Directorate; Deputy Technology Executive Officer (TEO) for Space Science and Technology, Air Force Research Laboratory



PLUS

- Special Presentation** | 2021 T.S. Kelso Space Safety Award in collaboration with Space Data Association
- Featured Presentation** | The National Science Foundation's Daniel K. Inouye Solar Telescope
- Featured Presentation** | Semi-Empirical Metrics to Measure the Effects of Satellite Mega-Constellations on Astronomy
- Featured Panel** | Space Research Opportunities with the U.S. AMOS Dialogue
- International SSA Data Exchange Operators Forum**
- Virtual Space Exploration Student Session**
Astronaut Col Michael Hopkins
- Conference Closing & Awards Ceremony** in Collaboration with American Astronomical Society (AAS)



SAVE THE DATE
SEP 27-30, 2022