

22ND AMOS Advanced Maui Optical and Space Surveillance Technologies Conference

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



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.

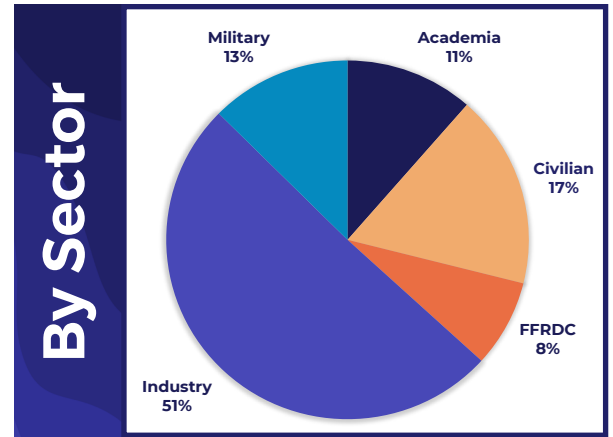
With meticulous health and safety planning by the AMOS Conference team, it was possible to present a hybrid event which enabled our international partners to contribute to the discussions that help build partnerships, collaborations, and protocols for good actors in the space domain. Since 2013, the 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.



1079 PARTICIPANTS
668 IN-PERSON | 407 VIRTUAL



"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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"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*



AMOS PROGRAM AT A GLANCE

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

