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#AMOScon
#EMERGEN21

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**Event Date:** AMOS Conference - Sept 14-17, 2021
EMER-GEN Conference – Sept 12-14, 2021

**Location:** Wailea Beach Resort
3700 Wailea Alanui Drive, Wailea, HI 96753

# FAST FACTS

**Description:** The Advanced Maui Optical and Space Surveillance Technologies (AMOS) Conference is the premier technical conference in the nation devoted to space situational awareness. The cross section of private sector, government, and academic participation helps foster important dialogue and international collaboration. The continued growth in attendance and participating countries at AMOS reflects a growing interest in space sustainability and space commerce initiatives as new actors—national governments, private sector companies, non-governmental entities, and universities—become involved in these activities.

**Continuing to adapt in response to the COVID-19 pandemic, AMOS 2021 will be hybrid with an in-person event complemented by virtual components including livestream.**

Now in its 22nd year, the AMOS Conference attracted over 200 Papers this year with authors from 19 countries which have been reviewed and sorted into oral and poster presentations. Papers are eligible for publication in the 2021 Journal of Astronautical Sciences as well as a Best Paper and Presentation Award. There is also a Student Award for the best manuscript submitted by a student. 30 students submitted abstracts this year.

In addition to the Technical Sessions, the AMOS Conference features Keynote Speakers, Policy Forums and Technical Short Courses. There will also be virtual access to exhibits, posters and networking rooms.

This will also be the fourth year for the EMER-GEN program, designed especially for young professionals and students enthusiastic about careers in space. The program will be in-person with an added series of webinars both pre- and post- event.

**Presenter:** This event is presented by the **Maui Economic Development Board,** a 501(c)(3) not-for-profit corporation established in 1982 with a mission to diversify Maui County's economy, building pathways to innovation, jobs and opportunity for our residents. Through partnerships with the public and private sector, MEDB undertakes projects that assists growth industries with navigating and thriving in our county, educates and trains residents for new careers, and engages our community in forums that determine future economic directions.

### Technical Chairs
Paul Kervin, AFRL/RDSM
Daron Nishimoto, Pacific Defense Solutions – A Centauri Company

### Conference Advisors
Col L. Kirk Lewis, Ret., Institute for Defense Analyses
Jeanne Skog, Skog Rasmussen LLC

## 2021 Session Topics and Chairs

**Astrodynamics**
Thomas Kelecy, L3 Harris
Samuel Wishnek, University of Colorado Boulder

**Atmospherics/Space Weather**
Randall Alliss, Northrop Grumman Corporation
Michael Roggemann, Michigan Technical University

**Cislunar SSA**
James Frith, AFRL RVSW
Jesse Greaves, University of Colorado Boulder

**Conjunction/RPO**
James Blake, University of Warwick
Darren McKnight, LeoLabs

**Dynamic Tasking**
David Brough, Numerica
Gabe Egolf, Parsons

**Machine Learning for SSA Applications**
Islam Hussein, Thorton Tomasetti
Charlotte Shabarekh, Aptima, Inc.

**Non-Resolved Object Characterization**
Heather Cowardin, NASA Johnson Space Center
Weston Faber, L3 Harris

**Optical Systems & Instrumentation**
Matthew Bold, Lockheed Martin
Stacie Williams, AFOSR

**Space Situational Awareness/Space Domain Awareness**
Moriba Jah, University of Texas at Austin
Danielle Wood, Massachusetts Institute of Technology

## TECHNICAL SHORT COURSES

Short courses provide opportunities for working professionals to upgrade their technical job skills and remain abreast of recent developments in their respective fields of interest. The small size of each class gives you an excellent opportunity for personalized instruction.

In 2021 there will be a selection of in-person and online courses, taught by highly regarded industry experts on a number of subjects. Please see full list in the press release on page 9.

## 2021 SPONSORS

*Sponsors as of 7/13/2021*

### Po'okela – striving for the best

Boeing

### Laulima *(working together)*

AGI/COMSPOC
Ball Aerospace
ExoAnalytic Solutions
KBR
Kratos
L3 Harris
LeoLabs
Lockheed Martin
Northrop Grumman
Northstar
Peraton
SAIC

### Lokahi *(collaboration and unity)*

Numerica Corporation
Raytheon
Secure World Foundation
Space Foundation
SpaceNav

### Kupa'a *(loyal and committed)*

JHU Applied Physics Lab
Sierra Nevada Corporation

### Malama *(to care for)*

a.i. solutions
Applied Optimization
AstroHaven
DLR
General Atomics
Japan Space Forum
Kayhan Space
USRA

# FAQs

### How will the hybrid conference experience be for in-person attendees?

Attendees who will join us on Maui will meet in the conference rooms for the plenary sessions. Seating will take social distancing into consideration, and overflow may be directed to view livestreaming in other ballrooms to accommodate everyone. There will be no exhibit hall to allow for more space in the main ballroom.

There will be welcome receptions and pau hana (end of day) receptions for further networking opportunities.

All in-person attendees will also have access to the virtual platform. They can use the platform to view pre-recorded technical sessions and all the poster presentations; as well as visit the virtual Exhibit Hall and network with fellow attendees – both in-person and virtual.

### How will the virtual conference experience be for attendees?

A robust virtual platform will allow attendees to explore the conference venue at their leisure as well as attend the live plenary sessions and participate in Q & A via a chat function. The platform will include virtual exhibit booths, networking rooms and poster halls. Technical sessions will be on-demand and all presentations will be recorded for later access by those registered unable to attend the live streaming.

In the virtual exhibit booths, attendees can view collateral and videos as well as meet virtually with sponsor representatives.

In the digital poster hall, attendees can view pre-recorded 3 minutes presentations of the posters. Poster presenters will be present for chat Q & A during scheduled Poster Sessions.

### How did the conference come to be on Maui?

Maui has some of the most diverse and highly capable optical telescopes (AEOS), instrumentation (adaptive optics, spectrometers, photometers, radiometers, etc.) and processing capabilities (MHPCC) centralized into one location on the planet earth.

The AMOS Conference began in 1999 as an AFRL initiative, executed by the Maui Economic Development Board (MEDB). At that time, the focus of the conference was as a users' conference and to promote the Air Force Maui Optical and Supercomputing Site (AMOS) which has provided the U.S. Department of Defense

(DoD) with space situational awareness (SSA) capabilities for over 65 years (since 1951).

In 2006, MEDB assumed ownership of the AMOS Conference from the Air Force, and proceeded to build upon early success by evaluating and adding elements to the conference that bring value to the SSA Community. In the 13 years since, MEDB's intent in presenting the AMOS Conference is still to support the Air Force's mission on Maui which, in turn, supports MEDB's mission of economic diversification.

### What are the various activities of the AMOS Conference?

In order for the AMOS Conference to continue to be of benefit to the Air Force, it must also be of benefit to the SSA Community at large. The conference has expanded from solely Technical Sessions to include exhibition and sponsorship opportunities; SSA Policy sessions that explore international issues; keynotes by international SSA thought leaders; invited workshops that promote international collaboration and cooperation on SSA topics; and technical short courses.

### How are presenters selected for the Technical Sessions?

A Call for Papers is announced at the beginning of the year with submissions closing mid-March. Papers are reviewed and selected by Technical Chairs that have been selected to moderate the specific sessions noted to be in high demand by the submissions. In 2021 the sessions are: Astrodynamics; Atmospherics/Space Weather; Cislunar SSA; Machine Learning for SSA Applications; Non-Resolved Object Characterization; Optical Systems and Instrumentation; and Space Situational/Domain Awareness.

Papers that are not accepted for an oral presentation may be invited to present a Poster. All presenters, oral or poster, are required to submit a final paper by August 31 in order to present at the AMOS Conference.

### Where are the Technical Papers published?

Final papers are collated into the Proceedings for the year and available for purchase 8-10 weeks post-Conference. The Conference also maintains an archive of individual technical papers presented at the AMOS Conference since 2006 which is searchable online as a resource to the SSA technical community https://amostech.com/archives/.

In 2021, relevant papers will be considered for publication in the 2021 Journal of Astronautical Sciences, an archival publication devoted to the sciences and technology of astronautics. Articles are published which present significant new

results, important insights, or state of the art surveys in all areas of astrodynamics, celestial mechanics, atmospheric flight mechanics, navigation and guidance, and space related sciences.

### What awards are associated with the AMOS Conference?

The Space Surveillance Technical Committee of the American Astronautical Society (AAS) and AMOS Conference will present a Student Award for the best manuscript submitted and presented by a student.

All presentations are eligible for an overall Best Paper award that will be presented end of the Conference.

### What is the SSA Policy Forum?

The SSA Policy Forum, coordinated in collaboration with Secure World Foundation, explores international issues related to Space Situational Awareness in a panel format. Held at the start of each day of the 3-day AMOS Conference, Wednesday to Friday, the sessions are preceded by a relevant keynote presented by an invited SSA thought leader. Bringing together the developers and implementers of SSA capabilities and the architects of SSA policy provides a forum to interact at a time when the landscape is rapidly changing.

Topics this year are:

**Wed, September 15 |** *Lessons Learned from Recent Satellite Servicing Missions*

**Thu, September 16 |** *Large Constellations and Right-of-Way in Space*

**Fri, September 17 |** *Results of the Recent UN Resolution on Norms of Behavior in Space*

### Who attends?

Along with United States representatives from military, contractor, academic and commercial sectors, the number of countries that have attended over the history of AMOS Conference is 37 – Australia, Austria, Belgium, Brazil, Bulgaria, Canada, Chile, China, Czech Republic, Egypt, Finland, France, Germany, India, Iran, Israel, Italy, Japan, Netherlands, New Zealand, Philippines, Poland, Republic of Korea, Russia, Singapore, Slovak Republic, South Africa, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, Ukraine, United Arab Emirates, United Kingdom, United States.

A sampling of companies, universities, and government organizations that have attended AMOS are listed at the end of this document.

### What is EMER-GEN and what do you expect to achieve?

The EMER-GEN® program is a joint initiative of the AMOS Conference and the Space Generation Advisory Council (SGAC). Designed especially for young professionals and students enthusiastic about careers in space, the original 2+ day program has grown to include webinars before the main event with a focus on fostering innovation and entrepreneurship among the cohort. Through the whole program, participants will be challenged to solve/hack a problem to create new opportunities for space-based technologies.

With the help of advisers from industry, government, academia and NGOs, the EMER-GEN experience offers the experience offers

- Mentoring with renowned space specialists from the public sector (military and civil), private sector, and nongovernmental organizations
- Networking with other young professionals
- Technical Short Course presented by a specialist in space situational awareness
- Professional Development sessions to enhance your effectiveness in a global environment

The partnership with the SGAC provides an opportunity to extend the reach of the AMOS Conference and to contribute to the professional development of the upcoming space generation.

40 participants are anticipated in the fourth year. Scholarships are awarded to Hawaiian residents.

# # #

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## FOR IMMEDIATE RELEASE

### Fifteen Short Courses announced for the 2021 AMOS Conference

*Kihei, Maui, Hawaii, July 6, 2021* – The program for the 2021 AMOS (Advanced Maui Optical and Space Surveillance Technologies) Conference has been published and includes fifteen technical short courses to be taught by highly regarded industry experts on a variety of subjects. With the hybrid format this year, courses have been scheduled to be presented either in-person on Maui; or online on September 14, 2021.

Renowned as the premier technical conference in the nation devoted to space situational awareness/space domain awareness, topics for the AMOS short courses include -- Conjunction Assessment; Deep Learning Methods; SSA Optical Systems; Statistical Orbit Determination; Space Weather impacts; and more. The short courses provide an opportunity to upgrade technical job skills and remain abreast of recent development in fields of interest.

"This year we have been able to extend the number of courses offered to adapt to a combined in-person and virtual audience. The virtual courses help us reach the broader, international audience who may not be able to attend in person this year," said Sandy Ryan, Conference Director. "Along with a number of returning courses and familiar faces, we are very pleased to welcome and introduce new topics and presenters to the AMOS community."

Ten short courses that will be presented on-site at the AMOS Conference venue (Wailea Beach Resort) will only be available in-person, with no live streaming available. The courses, and the presenters are:

1. **Conjunction Assessment (CA) Risk Assessment** - Presented by Francois Laporte, CAESAR Team Leader, CNES; Lauri Newman, Senior Engineer, Goddard Space Flight Center – NASA; and Matthew Hejduk, Chief Engineer, NASA Robotic CARA, Astrorum Consulting LLC
2. **Deep Learning Methods for Space Domain Awareness** - Presented by Roberto Furfaro, Professor, University of Arizona; Weston Faber, Senior Research Scientist, L3Harris; and Richard Linares, Charles Stark Draper Assistant Professor, Massachusetts Institute of Technology
3. **SSA Optical Systems Modeling and Simulation** - Presented by Patrick North, Chief Remote Sensing Engineer, Image and Computer Scientist; and Jeff Baxter, Aerospace Engineer; both of Ansys
4. **Statistical Orbit Determination for Space Surveillance and Tracking** - Presented by Moriba Jah, Associate Professor, University of Texas at Austin

5. **Supervised Learning: Review and Applications with Real Space Domain Awareness (SDA) Data** - Presented by David Brough, Senior Research Scientist; Navraj Singh, Program Manager; Cam Key, Research Scientist; all of Numerica Corporation
6. **Demystifying Machine and Deep Learning** - Presented by Joseph Coughlin, The Aerospace Corporation; Rohit Mital, Chief Technologist, KBR, Inc.; and Weston Faber, Senior Research Scientist, L3Harris
7. **How to Kill Your Own Satellite** - Presented by Liberty Shockley, Engineer, U.S. Space Force
8. **Next Generation Data Management for Space Data** - Presented by Mark Brady, Chief Data Officer, U.S. Space Force
9. **Space Weather Impacts on Near-Earth Space Operations** - Presented by Thomas Berger, Executive Director, University of Colorado / Space Weather Technology, Research, and Education Center (SWx TREC)
10. **The Dynamic Co-Evolution of Space Policy and Technology: Historical Overview and Lessons for Assessing Future Trends** - Presented by Nancy Hayden, Distinguished Member Techncial Staff; Mark Ackermann, Systems Analyst; David Cox, Chief Architect for SDA; all of Sandia National Laboratories

Five technical short courses will be presented virtually. The presentations are "live" and participants will have the ability to interact with the instructor and attendees in real-time.

A. **Imaging of Space-Based Objects through Atmospheric Turbulence** - Presented by Szymon Gladysz, Adaptive Optics Group Leader, Fraunhofer Institute of Optronics, System Technologies and Image Exploitation IOSB
B. **Introduction to ESA's Space Debris Software tools (DRAMA, MASTER, DISCOS, PROOF)** - Presented by Tim Flohrer, Head of Office, ESA Space Debris Office; Francesca Letizia, Space Debris Engineer, European Space Agency
C. **Observing and Characterizing Space Debris** - Presented by Thomas Schildknecht, Vice Director, Head Optical Astronomie, Director Zimmerwald Observatory, Astronomisches Institut Universität Bern
D. **Polarimetry** - Presented by Russell Chipman, Professor of Optical Sciences, University of Arizona
E. **Telescopes and Optics for Ground-Based Optical SSA** - Presented by Peter Zimmer, Astronomer; and Mark Ackermann, Optical Lead; both of J.T. McGraw and Associates, LLC

Full descriptions of all the short courses are available at https://amostech.com/short-courses. Separate registration fee is required for each course and courses can be added to existing registrations. Places will be limited.

In addition to the short courses, the main program that runs September 15 to 17 includes technical sessions, keynote speakers, SSA policy forums and networking receptions. The AMOS Conference brings together policymakers and experts from the private sector,

academia, the military, and government agencies, attracting papers and presentations from the world's foremost scientists working in the near-space arena.

Learn more about the conference and program at https://amostech.com/

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**PHOTOS:**

Caption: Technical Short Courses at AMOS Conference

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## FOR IMMEDIATE RELEASE

# Opening keynote announced for the 2021 AMOS Conference

*Kihei, Maui, Hawaii, June 21, 2021* – The Opening Keynote speaker and SSA (Space Situational Awareness) Policy Forum topics are set for the 2021 AMOS (Advanced Maui Optical and Space Surveillance Technologies) Conference to be held on Maui, September 14-17, 2021

Day one of the 22nd AMOS Conference will feature Major General DeAnna M. Burt, Commander, Combined Force Space Component Command, U.S. Space Command; and Deputy Commander, Space Operations Command, U.S. Space Force, Vandenberg Air Force Base, California. As Commander of U.S. Space Command's Combined Force Space Component Command, she leads more than 17,000 joint and combined personnel with a mission to plan, integrate, conduct and assess global space operations to deliver combat relevant space capabilities to combatant commanders, coalition partners, the joint force and the nation. The general plans and executes space operations through four distinct and geographically dispersed operations centers, including the Combined Space Operations Center at Vandenberg AFB, California; the Missile Warning Center at Cheyenne Mountain Air Force Station, Colorado; the Joint Overhead Persistent Infrared Planning Center at Buckley Garrison, Colorado; and the Joint Navigation Warfare Center located at Kirtland AFB, New Mexico.

Maj. Gen. Burt entered the Air Force in 1991 as a distinguished graduate of the Air Force ROTC program at Embry-Riddle Aeronautical University. Her career has included numerous satellite operations and staff positions in Air Force Space Command and U.S. European Command. The general has commanded the 2nd Space Operations Squadron, the 460th Operations Group and the 50th Space Wing. She is a graduate and former instructor of the U.S. Air Force Weapons School and a graduate of the School of Advanced Air and Space Studies. Prior to her current assignment, Maj. Gen. Burt was the Director of Operations and Communications, Headquarters Space Operations Command, Peterson Air Force Base, Colorado.

Presented by Maui Economic Development Board (MEDB), the conference organizers look forward to welcoming the SSA community back to Maui after going virtual in 2020 due to the COVID-19 pandemic. "Early registration and demand for hotel rooms has been strong, showing us that people are keen to attend in-person in September," said Sandy Ryan, Conference Director. "The conference does offer a virtual option with livestreaming of presentations for those unable to travel. On-stage presentations will be combined with virtual presentations and a virtual platform will be available to all registrants."

**SSA Policy Forum**

The keynote presentation leads into the SSA Policy Forum which on Day 1 will address "Lessons Learned from Recent Satellite Servicing Missions." In April 2020, the first commercial satellite servicing mission successfully docked with a satellite above GEO, followed by the second docking in GEO in March 2021; as well, there is a planned orbital debris removal demonstration in LEO in mid-2021. This panel will discuss how existing SSA capabilities were able to monitor and support these recent and planned satellite servicing missions and the lessons learned for conducting future servicing missions and future SSA requirements.

The SSA Policy Forum, coordinated in collaboration with Secure World Foundation, is held each morning of the AMOS Conference and explores international issues related to Space Situational Awareness in a panel format. It brings together the developers and implementers of SSA capabilities and the architects of SSA policy to interact at a time when the landscape is rapidly changing.

On Day 2, the Policy Forum will discuss "Large Constellations and Right-of-Way in Space." Current practice leaves it up to individual operators to assess the risk threshold for an avoidance maneuver to prevent potential collisions and who will - or should - perform it. But as the deployment of mega-constellations in LEO continues, there will be an increasing number of close approaches between satellites from different constellations or operators with different risk criteria, maneuver protocols, and potentially competing interests. This panel will discuss the right-of-way for satellites and other potential solutions to mitigate this problem and improve the coordination and resolution of close approaches in space.

On Day 3 a panel will explore the "Results of the Recent UN Resolution on Norms of Behavior in Space." In December 2020, the United Nations General Assembly adopted a resolution proposed by the United Kingdom that called on member states to provide their thoughts on threats to space security and proposals for dealing with those threats, including developing norms of behavior for space. This panel will discuss the inputs received from governments and civil society and what it means for future multilateral discussions on space security, and how SSA can help reduce misperceptions and misunderstandings and increase the transparency of space activities.

Moderators and panelists for the forums will be announced in coming weeks. For more than 20 years, Maui's AMOS Conference has been the nation's leading technical conference on space situational awareness. Bringing together policymakers and experts from the private sector, academia, the military, and government agencies, the AMOS conference attracts papers and presentations from the world's foremost scientists working in the near-space arena. Programming includes technical sessions, keynote speakers, policy forums, and technical short courses on topics ranging from space law and collision avoidance, to space debris and the use of machine learning in SSA.

The AMOS conference is preceded by the 4$^{th}$ Annual EMER-GEN® program, a professional development opportunity for students and young professionals enthusiastic about careers in space. The program features mentoring sessions with renowned space specialists, along with professional development sessions designed to enhance the young professionals' effectiveness in a global environment. A number of pre-event webinars will help the cohort prepare for the on-site program.

Registration is open for both events. Learn more at https://amostech.com/

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**PHOTOS:**

Caption: Major General DeAnna Burt is the opening Keynote for the 22nd annual AMOS Conference

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## FOR IMMEDIATE RELEASE

### Registration opens as the AMOS Conference goes hybrid

*Kihei, Maui, Hi, May 11, 2021* - Registration is now open for the Advanced Maui Optical and Space Surveillance Technologies (AMOS) Conference to be held September 14-17, 2021 at the Wailea Beach Resort. With ongoing restrictions due to COVID-19, the premier technical conference in the nation devoted to Space Situational/Domain Awareness (SSA/SDA) is proceeding as a hybrid event with both in-person and livestream components.

The cross section of private sector, government, and academic participation helps foster important dialogue and international collaboration. The continued growth in attendance and participating countries at AMOS reflects a growing interest in space sustainability and space commerce initiatives as new actors—national governments, private sector companies, non-governmental entities, and universities—become involved in these activities.

"A pre-conference survey showed that 60% of respondents were planning to travel to Maui to attend in-person in September," said Sandy Ryan, Conference Director of Maui Economic Development Board (MEDB), the host of the AMOS Conference. "We are working closely with the conference venue to put on a safe and healthy event. After being all-virtual in 2020, we are looking forward to welcoming the SSA/SDA community back to Maui."

Visitors travelling to Maui are required to participate in the Safe Travel Hawaii program which currently requires pre-travel testing to avoid a 10-day quarantine. On May 11, a vaccination exemption was introduced. Learn more at https://travel.hawaii.gov/#/

This year the AMOS Conference received over 200 abstracts from 19 countries with a record number of student submissions eligible for the 4th annual AMOS Student Award, presented in collaboration with the American Astronautical Society. Papers have been selected to be presented in technical sessions that cover Astrodynamics; Atmospherics/Space Weather; Cislunar SSA; Conjunction/RPO; Dynamic Tasking; Machine Learning for SSA Applications; Non-Resolved Object Characterization; Optical Systems & Instrumentation; Space Situational/Domain Awareness.

AMOS provides the opportunity to stay on the cutting edge of industry trends while networking and cross-sharing knowledge within the SSA community. The program will feature Keynote speakers, policy forums, technical sessions and short courses. Both in-person and livestream attendees will have access to a virtual platform to enable networking and collaboration. The exhibit hall and poster presentations will be entirely virtual to limit gathering in tight and close spaces.

The SSA Policy Forums, coordinated in collaboration with Secure World Foundation, are scheduled at the start of each day of the 3-day AMOS Conference, Wednesday to Friday. The

sessions bring together the developers and implementers of SSA capabilities and the architects of SSA policy to explore international issues related to space sustainability.

The AMOS Conference will be preceded by an EMER-GEN® program for young professionals enthusiastic about careers in space. The program features mentoring sessions with renowned space specialists, along with professional development sessions designed to enhance the young professionals' effectiveness in a global environment. Scheduled pre-event webinars will help the cohort prepare for the on-site program. Registration for EMER-GEN will open in June.

The AMOS Conference and EMER-GEN are presented by the Maui Economic Development Board, Inc. (MEDB), a nonprofit corporation established in 1982 to focus on diversifying Maui's economy. MEDB's mission involves taking innovative actions that strengthen existing industry as well as diversifying through new opportunities.

Learn more about in-person and virtual registration at https://amostech.com/registration/ and EMER-GEN at http://www.emer-gen.com.

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## FOR IMMEDIATE RELEASE

# Call for Papers for AMOS 2021 – Due March 1

*Kihei, Maui, Hi, March 27, 2020* - Maui Economic Development Board is pleased to announce the Call for Papers for the 22nd annual Advanced Maui Optical and Space Surveillance Technologies (AMOS) Conference scheduled to take place September 14-17, 2021.

Consistently recognized as the preeminent scientific conference in the field of space situational/domain awareness (SSA/SDA), the AMOS Conference is attended by nearly 1,000 scientists, engineers and space experts from around the globe.

The four-day event features technical short courses and more than 100 presentations in the fields of telescope optics, adaptive imaging, satellite tracking and astrodynamics. The conference also features high-level presentations and panel discussions by key stakeholders in space policy.

Recognizing that conference plans may need to adapt due to the continuing COVID-19 pandemic, AMOS is proceeding as an in-person event and potential virtual components will be announced at a later date.

The AMOS Program Committee reviews all submissions from the annual Call for Papers and selects those that best meet the scientific and technical goals of the conference. We encourage submissions from international, undergraduate and graduate students pursuing a degree in a science, technology, engineering, and math (STEM) at an accredited college or university. International and student participants will receive a reduced conference fee.

**Publication in the Journal of Astronautical Sciences**

The AMOS Conference, in conjunction with the American Astronautical Society (AAS), is delighted to provide participating authors the opportunity to be published in a peer-reviewed journal. The Journal of the Astronautical Sciences is an archival publication devoted to the sciences and technology of astronautics. Invitations to be peer-reviewed and considered for publication in a special AMOS Conference issue of the Journal of Astronautical Sciences will be extended upon conclusion of the Conference.

**Awards**

In collaboration with the Space Surveillance Technical Committee of the AAS, the AMOS Conference recognizes outstanding efforts in the field of Space Situational Awareness by presenting a series of awards at the close of the annual conference, including the Best Paper Award.

The Student Award provides travel assistance and conference registration. Students wishing to apply for this award must submit their completed manuscript by June 25, 2021.

**Call for Proposals: Short Courses**

Proposals are also being solicited for half-day Short Courses to be presented at AMOS 2021. The short courses are intended to offer opportunities for participants to acquire an introductory knowledge on conference topics. Focus topics of broad interest from excellent instructors are encouraged. Short courses are solicited from all technical areas within SSA subject areas.

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