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On-Line:  www.amostech.com
Program APP: tba
Facebook: AMOScon
Twitter: @amoscon
#AMOS2018  #EMERGEN18

Contact:  Sandy Ryan
Conference Director, Maui Economic Development Board
1305 North Holopono Street, Suite 1, Kihei, HI 96753
Office: 808-875-2318
Mobile: 808-283-1267
Email: sandy@medb.org
Website: www.medb.org
The Advanced Maui Optical and Space Surveillance Technologies (AMOS) Conference is known as the top scientific conference in the field of space situational awareness (SSA). The conference is attended by more than 700 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.

**FEATURES**

- Senior level keynote speakers and panels on space situational awareness policy and research
- Oral technical presentations and discussion
- Poster presentations
- Technical short courses
- Interactive exhibits
- Networking events
- Student exploration day
CALL FOR PAPERS | Due March 15

The Program Committee has scheduled both oral and poster sessions. The abstracts of both oral and poster papers are published in the same manner in the conference materials. On the electronic submission form, authors will be asked for their presentation format preference. Submitted abstracts must report new information and not previously published or presented at a national or international scientific meeting, unless there is a substantial update of data.

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.

JOURNAL PUBLICATION AND AWARDS

Publication in the 2018 Journal of Astronautical Sciences

The Journal of the Astronautical Sciences is 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. Authors are encouraged to submit papers on attitude dynamics, orbit determination, trajectory optimization, space mission analysis, numerical methods, maneuvering flight vehicles, dynamics and control of large flexible space structures, and space sciences related to new astronautical systems and their applications.

Best Paper and/or Presentation Award

At the end of the conference, we will present an overall best paper and/or presentation award.

Student Award

The Space Surveillance Technical Committee of the American Astronautical Society (AAS) and AMOS Conference will present an award for the best manuscript submitted and presented by a student. This award provides travel assistance and conference registration. Students wishing to apply for this award are strongly advised to submit their completed manuscript by June 30, 2018.

Key Dates

Abstract Deadline
March 15

Notification of Acceptance
May 1

Technical Paper Deadline
Aug 31

Submission details: https://amostech.com/amos-speakers/
**FAST FACTS**

**Description:** The Advanced Maui Optical and Space Surveillance Technologies (AMOS) Conference is the premier technical conference in the nation devoted to space surveillance. The cross section of military, contractor, and academic participation fuels important dialogue and collaboration on a national and international scale. The continued growth in attendance and participating countries reflects a growing interest in Space Situational Awareness as new actors—national governments, start-up companies, universities, and non-governmental entities—become more involved in space activities.

The AMOS Conference attracted a record-number of Papers this year which have been reviewed and sorted into oral and poster presentations. Papers are eligible for publication in the 2018 Journal of Astronautical Sciences as well as a Best Paper and/or Presentation Award. There is also a Student Award for the best manuscript submitted by a student.

In addition to the Technical Sessions, the AMOS Conference includes Keynote Speakers, Policy Forums, Exhibit Sessions, Technical Short Courses and Networking events.

This year, the AMOS Conference introduces the first annual EMER-GEN program, designed especially for young professionals and students (35 and under) enthusiastic about careers in space.

**Presenters:** This event is presented by the Maui Economic Development Board.

The Maui Economic Development Board (MEDB) is 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.

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

**Event Date:** AMOS Conference - Sept 11-14, 2018  
EMER-GEN Conference – Sept 9-11, 2018
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AMOS CONFERENCE FAST FACTS - continued

Technical Chairs
Paul Kervin, AFRL/RDSM
Wes Freiwald, PDS

Conference Advisor
Col L. Kirk Lewis, Ret., Institute for Defense Analyses

2018 Session Topics and Chairs

Adaptive Optics and Imaging
Scott Hunt, Air Force Research Laboratory
John Lambert, Cornerstone Defense

Astrodynamics
Islam Hussein, L3 Applied Defense Solutions
Vishnuu Mallik, University of Texas at Austin

Non-Resolved Object Characterization
Heather Cowardin, Jacobs-JETS
Marcus Holzinger, University of Colorado Boulder

Optical Systems & Instrumentation
Tamara Payne, Applied Optimization
Jim Shell, Novarum Tech

Orbital Debris
James Frith, Orbital Debris
Noelia Sanchez Ortiz, Deimos Space

Poster
Rita Cognion, BAE Systems
Tom Kelecy, L3 Applied Defense Solutions

Space Situational Awareness
Greg Cohen, Western Sydney University
Tim Flohrer, ESA/ESOC Space Debris Office

Space-Based Assets
Pat Patterson, Space Dynamics Laboratory
Jeff Sherk, Metis

- more -
**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.

This year there will be seven (7) courses, taught by highly regarded industry experts, with four running concurrently in the morning, and three in the afternoon on Tuesday September 11.

1. **Conjunction Assessment Risk Assessment**
   
   Presented by:
   
   Francois Laporte and Monique Moury, CNES
   Matt Hejduk and Lauri Newman, NASA/CARA

2. **Space Debris Risk Assessment and Mitigation Analysis – Verification of compliance with requirements on space debris mitigation using ESA’s DRAMA software**
   
   Presented by:
   
   Tim Flohrer, Space Debris Analyst, SST Segment Co-Manager, ESA/ESOC Space Debris Office
   Benjamin Bastida Virgili, Space Debris Engineer, ESA/ESOC Space Debris Office

3. **Operational Analytics: Demystifying Machine Learning**
   
   Presented by:
   
   Joseph Coughlin, Senior Aerospace Engineer, L3 Applied Defense Solutions
   Rohit Mital, Chief Technology Officer, Stinger Ghaffarian Technologies

4. **Introduction to theory and application of multi-objective optimization using Genetic Algorithm**
   
   Presented by:
   
   Triet Tran, Senior Aerospace Consultant, Cornerstone Consulting LLC

5. **Statistical Orbit Determination for Space Surveillance and Tracking**
   
   Presented by:
   
   Moriba Jah, The University of Texas at Austin

6. **Observing and Characterizing Space Debris**
   
   Presented by:
   
   Thomas Schildknecht, Astronomisches Institut Universität Bern

7. **Machine Learning for Space Situational Awareness**
   
   Presented by:
   
   Kyle Pula, Research Scientist, CACI
   Richard Linares, Assistant Professor, University of Minnesota
   Roberto Furfaro, Associate Professor, University of Arizona

###
FAQs

Why is this conference happening 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 12 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 2018 the sessions are: Adaptive Optics and Imaging; Astrodynamics, Non-Resolved Object Characterization; Optical Systems and Instrumentation; Orbital Debris, Space Situational Awareness; Space-Based Assets.

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 2018, relevant papers will be considered for publication in the 2018 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 an award for the best manuscript submitted and presented by a student.

All presentations are eligible for an overall best paper and/or presentation 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 Space Situational Awareness and Enhancing Security and Deterrence; Space Traffic Management and Modernizing Oversight of Commercial Space Activities; SSA to Support Best Practices For Rendezvous and Proximity Operations.

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 24 -- Australia, Austria, Belgium, Canada, Chile, China, Czech Republic, France, Germany, Israel, Italy, Japan, New Zealand, Poland, Republic of Korea, Russia, Singapore, South Africa, Spain, Sweden, Switzerland, Thailand, Turkey, and the United Kingdom.

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 (35 and under) enthusiastic about careers in space, the two-day experience offers:

- Mentoring with renowned space specialists from the public sector (military and civil), private sector, and nongovernmental organizations
- Networking with other young professionals
- Short courses led by experts drawn from an array of fields related to 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.

30 participants are anticipated in the Pilot year.

# # #
Registration Open for 2018 AMOS Conference

Kihei, Maui, Hi, May 8, 2018 - Registration has opened for the 19th AMOS Conference to be held September 11-14, 2018 at the Wailea Beach Resort.

The Advanced Maui Optical and Space Surveillance Technologies (AMOS) Conference is the premier technical conference in the nation devoted to space surveillance. The cross section of military, contractor, and academic participation in the field of space situational awareness is unmatched by any other conference in the world, as evidenced by the continued growth in attendance, and the corresponding increase in technical excellence and collaboration.

AMOS provides the opportunity to stay on the cutting edge of industry trends while networking and cross-sharing knowledge within the SSA community. The Conference attracts participants from across the USA as well as internationally with 15 countries represented in attendance in 2017.

Exhibit & Poster Sessions

In addition to the plenary sessions, the Exhibit and Poster Sessions provide further opportunities to build relationships and learn about new technologies and developments in the Space arena.

Sponsorship opportunities are available for companies seeking maximum exposure to AMOS participants. Benefits range from hosted reception inclusive of food and beverage, exhibition space to display products and services, dedicated meeting room to meet with valuable customers during the conference, receive complimentary conference registrations and many more.

Learn more about Registration at https://amostech.com/registration

Photo Caption: The AMOS Conference attracts over 650 participants from over 15 countries.

###

High Res Photos available on request.
AMOS announces first annual EMER-GEN Program

*Kihei, Maui, Hi, June 5, 2018* - Registration has opened for the 19th AMOS Conference to be held September 11-14, 2018 at the Wailea Beach Resort.

The AMOS Conference continues to grow and expand with the introduction of EMER-GEN program designed especially for young professionals and students (35 and under) enthusiastic about careers in space. Scheduled for September 9-11, 2018 to precede the 19th annual AMOS Conference, EMER-GEN is a joint initiative of the AMOS Conference and the Space Generation Advisory Council (SGAC).

With the help of advisors from industry, government, academia and NGOs, the program involves a two-day experience that offers:

- Mentoring with renowned space specialists from the public sector (military and civil), private sector, and nongovernmental organizations
- Networking with other young professionals
- Short courses led by experts drawn from an array of fields related to space situational awareness
- Professional Development sessions to enhance your effectiveness in a global environment

"We are excited to launch this program for young professionals that builds on the capabilities and network of the AMOS Conference," said Conference Director, Sandy Ryan of the Maui Economic Development Board. “Through the partnership with the SGAC, we look forward to extending our unique AMOS Aloha and to assisting with the aspirations of the upcoming space generation."

Aiming to strengthen the regional network of students and young professionals, the program is expected to attract up to 30 participants in its pilot year. The mentoring and professional development sessions will guide discussion on key questions and challenges to space cooperation and enable tomorrow’s leaders to meet and connect with today’s leaders and professionals.

“SGAC is excited to partner with the Maui Economic Development Board to launch the EMER-GEN programme,” said Clementine Decoopman, Executive Director of the SGAC. “We look forward to extending our network to and meeting with the next generation of space leaders gathering on Maui as well as hearing their perspectives on future space industry challenges."

EMER-GEN participants will take part in the AMOS Conference short courses on Tuesday which serve to upgrade or expand their technical job skills and remain abreast of recent developments in their respective fields of interest. The young professionals and students will also be invited to attend the main AMOS Conference at a special rate.

The Advanced Maui Optical and Space Surveillance Technologies (AMOS) Conference, a program of the Maui Economic Development Board, will be held at the Wailea Beach Resort September 11-14. It is the premier technical conference in the nation devoted to space surveillance. The cross section of military, contractor, and academic participation in the field of space situational awareness is unmatched by any other conference in the world, as evidenced by the continued growth in attendance, and the corresponding increase in technical excellence and collaboration.
The Space Generation Advisory Council is a global non-governmental, non-profit (US 501(c)3) organization and network which aims to represent university students and young space professionals ages 18 to 35 to the United Nations, space agencies, industry, and academia. Headquartered in Vienna, Austria, the SGAC network of members, volunteers and alumni has grown to more than 13 000 members representing more than 150 countries.

For further details on the EMER-GEN program and registration, please go [https://amostech.com/EMER-GEN](https://amostech.com/EMER-GEN).

Photo Caption: The EMER-GEN Conference is designed specifically for young professionals and students enthusiastic about a career in space.

###

High Res Photos available on request.
Opening Keynote Speaker for the 2018 AMOS Conference Announced

*Kihei, Maui, Hi, July 5, 2018* - Major General Stephen Whiting will open the proceedings at the 19th Annual AMOS Conference as the Opening Keynote Speaker on Wednesday September 12.


As Commander, 14th Air Force, General Whiting leads more than 16,000 personnel responsible for providing strategic missile warning, nuclear command, control and communication, position, navigation and timing, space situational awareness, satellite operations, space launch and range operations. As Deputy JFSCC, he directs all assigned and attached USSTRATCOM space forces on behalf of the JFSCC, providing tailored, responsive and synchronized theater and global space effects in support of national security and combatant commander objectives. He is also responsible for protecting and defending critical U.S. and allied space capabilities.

General Whiting is a 1989 graduate of the U.S. Air Force Academy. He is a space operations officer, and has commanded the 13th Space Warning Squadron, Clear Air Force Station, Alaska; the 614th Air and Space Operations Center/Joint Space Operations Center, Vandenberg AFB and the 21st Space Wing, Peterson AFB, Colorado.

The general’s staff assignments include positions at Headquarters, United States Air Force; United States Space Command; United States Strategic Command; the Chief of Naval Operations’ Strategic Studies Group; the Office of the Deputy Secretary of Defense; and Headquarters, Air Force Space Command.

Maj. Gen. Whiting will present the opening Keynote as a lead-in to the first SSA Policy Forum of the Conference addressing the topic of Space Situational Awareness and Enhancing Security and Deterrence.

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.

Learn more about the full Program at [https://amostech.com/agenda/](https://amostech.com/agenda/).
Photo Caption: Maj Gen Stephen Whiting is the opening Keynote Speaker at the 2018 AMOS Conference.

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High Res Photos available on request.
FOR IMMEDIATE RELEASE

Speakers announced for SSA Policy Forums for the 2018 AMOS Conference

Kihei, Maui, Hi, August 23, 2018 – The 2018 AMOS Conference has released details of speakers and topics for this year’s SSA Policy Forums to be held on Maui, September 12 – 14, 2018.

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, 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.

The topics for the 2018 AMOS Conference and the speakers invited to discuss these important issues of the SSA Policy forum are as follows:

**SSA Policy Forum Day 1: Space Situational Awareness and Enhancing Security and Deterrence**

There are growing concerns among many countries about the proliferation of counter space capabilities and the possibility of future conflicts on Earth extending into space. This panel will discuss the role space situational awareness plays in enhancing national and international space security and deterrence, and steps that can be taken to strengthen the ability to deter aggressive action against satellites and ensure a stable, predictable space domain.

The opening Keynote Speaker for the AMOS Conference is Major General Stephen Whiting, Commander, 14th Air Force, Air Force Space Command; and Deputy Joint Force Space Component Commander, U.S. Strategic Command, Vandenberg Air Force Base, California.

As Commander, 14th Air Force, General Whiting leads more than 16,000 personnel responsible for providing strategic missile warning, nuclear command, control and communication, position, navigation and timing, space situational awareness, satellite operations, space launch and range operations. As Deputy JFSCC, he directs all assigned and attached USSTRATCOM space forces on behalf of the JFSCC, providing tailored, responsive and synchronized theater and global space effects in support of national security and combatant commander objectives. He is also responsible for protecting and defending critical U.S. and allied space capabilities.

**Moderator:** Doug Loverro, Former Deputy Assistant Secretary of Defense for Space Policy U.S. Department of Defense

- Ajey Lele, *Institute for Defence Studies and Analyses*
- John Giles, *National Space Council*
- Regina Peldszus, *Aerospace Center (DLR)*
- Jana Robinson, *Prague Security Studies Institute*
- Scotty Van Sant, *U.S. Strategic Command*
SSA Policy Forum Day 2: Space Traffic Management and Modernizing Oversight of Commercial Space Activities

As the number and complexity of human space activities grows across commercial, civil, and national security sectors, space traffic management (STM) is seen as a way to ensure we can collectively continue to use space in a safe and sustainable manner. STM includes civil aspects of space situational awareness, government oversight of private sector activities, and managing the space environment. The United States recently issued a new presidential policy directive establishing a national space policy and an administrative framework for implementation, and other countries are looking at their own national policies and capabilities. This panel will discuss the evolution of STM, the potential roles of government and the private sector in its implementation, and international cooperation.

Keynote Speaker on Day 2, Kevin O’Connell was appointed Director of the Office of Space Commerce at U.S. Department of Commerce in June this year. Before taking on this role he was president and chief executive of consulting company Innovative Analytics and Training.

Mr. O’Connell is one of the world’s foremost experts on the policy, security, and commercial issues of remote sensing technology. For the last three decades he has been intimately involved in identifying, analyzing, and managing emerging threats to the nation’s interests, governmental and commercial. His expertise has been proven in some of this country’s most influential institutions, including: the Department of Defense, the White House Situation Room, the National Security Council, the Office of the Director of Central Intelligence, and RAND Corporation’s Intelligence Policy Center (which he founded and served as a director).

Moderator: Ralph Dinsley, Northern Space and Security
- Bhavya Lal, Science and Technology Policy Institute, Institute for Defense Analyses
- Bryan Benedict, SES Government Solutions
- Paul Graziani, Analytical Graphics Inc.
- John Kay, Defence Technology Agency, New Zealand Defence Force
- Charity Weeden, Astroscale

SSA Policy Forum Day 3: SSA to Support Best Practices For Rendezvous and Proximity Operations

Rendezvous and proximity operations (RPO) are a fundamental component of many future space technologies, including satellite inspection and servicing, on-orbit assembly, and active debris removal. But the spread of RPO technology and activities on orbit has also created increased concerns about the ability to carry out such activities in a safe and responsible manner and national security implications. This panel will discuss the role of space situational awareness for helping to monitor RPO activities to increase safety and reliability and reduce misperceptions.

The Keynote Speaker for the third and final day of the AMOS Conference, Richard H. Buenneke is senior advisor for national security space policy in the Bureau of Arms Control, Verification and Compliance (AVC) at the United States Department of State in Washington, D.C. In his current position, Mr. Buenneke advises senior State Department officials on the planning and implementation of diplomatic and public diplomacy activities relating to U.S. national security space policy.

He served from June 2011 to June 2018 as the co-chair of an international expert group on space debris, space operations and tools for collaborative space situational awareness, which was established as part of a United Nations Committee on the Peaceful Uses of Outer Space’s working group on the long-term sustainability of outer space activities. He also serves as the AVC bureau’s lead for U.S.-European Union exchanges on space security cooperation.

Moderator: Victoria Samson, Secure World Foundation
The Advanced Maui Optical and Space Surveillance Technologies (AMOS) Conference is the premier technical conference in the nation devoted to space surveillance. The cross section of military, contractor, and academic participation fuels important dialogue and collaboration on a national and international scale. The continued growth in attendance and participating countries reflects a growing interest in Space Situational Awareness as new actors—national governments, start-up companies, universities, and non-governmental entities—become more involved in space activities.

In addition to the Policy Forums the AMOS Conference includes Technical Sessions, Exhibit Sessions, Technical Short Courses and Networking events. In 2018, the first annual EMER-GEN program, designed especially for young professionals and students (35 and under) enthusiastic about careers in space, will be held September 9-12.

The AMOS Conference is a program of 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.

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PHOTOS:

Caption: Maj. Gen. Stephen N. Whiting is the opening Keynote for the 19th annual AMOS Conference

Caption: Kevin O’Connell is the new Director of the Office of Space Commerce.