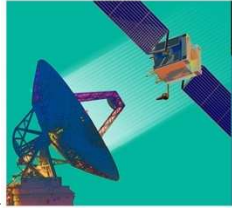


# Ground System Architectures Workshop



"Achieving the Resilient Enterprise"

**Fact Sheet**  
<http://gsaw.org>

Renaissance Los Angeles Airport Hotel  
**Feb. 26–March 1, 2018**

**WHAT** GSAW 2018 is the 22nd annual workshop exploring software and system architecture issues for space-related ground systems.

**WHEN/WHERE** Feb. 26–March 1, 2018, Renaissance Los Angeles Airport Hotel

**DESCRIPTION** Space-related ground systems have progressed from closed stovepipe systems to highly networked systems that are increasingly dependent on a wide variety of both heritage and commercial components. While the capability of our space systems has greatly increased, the challenges in protecting those systems from intrusion, attack, and failures are greater than ever. Advancements in technology and operational solutions are happening right now and more are sure to come. This year's theme is "Achieving the Resilient Enterprise," which addresses approaches to protecting your systems, operating them through issues, and keeping your system up-to-date. Come share your new ideas, emerging technologies, lessons learned, and roadmaps to achieving the goal of a truly resilient enterprise. The community would benefit greatly by hearing about your needs, accomplishments, progress, and plans as we move to advanced architectures and innovative capabilities for the future.

**DETAILS**

- Monday, Feb. 26, Tutorials (at additional cost)
- Tuesday–Thursday (morning), Feb. 27–March 1, General Workshop
- Thursday (afternoon), March 1, Classified Session at The Aerospace Corporation (Attendees required to have a TS/SCI clearance)

**TUTORIALS**

- Agile/DevOps Development and Agile Acquisition: Differences, Similarities, and How to Implement
- Developing Machine Learning Solutions for Space Missions
- Life Cycle Resilience Depends on Maintainability
- An Overview of Ground Systems for Satellite Operations
- Standards for Ground and Space Communications (CCSDS)
- Model Based Systems Engineering for Ground Systems
- Introduction to Satellite Communications
- Introduction to Space Domain Task Force (SDTF) Specifications—XTCE, GEMS, SOLM, XUSP
- Multicore Processing, Virtualization, and Containerization: Similarities, Differences, and Challenges
- Reducing the Software Risk in Ground System Software
- CCSDS Mission Operations Services in a Nutshell

**REGISTRATION** Registration now open—Early Bird Registration through Feb. 5. Register online at <http://gsaw.org/>. For further information, send email to [gsaw@aero.org](mailto:gsaw@aero.org) or call 310.336.0454.

**SCHEDULED SPEAKERS**

**KEYNOTE SPEAKERS**

**Lt. Gen. John Thompson**  
Commander  
Air Force Space and Missile Systems Center

**Richard (Greg) Marlow**  
Deputy Director  
NOAA/NESDIS Office of Satellite and Product Operations

**PANELISTS**

**Jim Caggy**  
Sr. Manager  
DOD/NATSEC Programs  
Amazon Web Services

**PANELISTS (CONT'D)**

**Cesar Lindo**  
Satellite Operations and Ground Systems Program Manager  
The Boeing Company

**Dr. Ed Kearns**  
NOAA Chief Data Officer  
National Oceanic and Atmospheric Administration

**Col. Michael Kleppe**  
Director  
Space Capabilities Division  
Headquarters  
Air Force Space Command A5/8/9M

**PANELISTS (CONT'D)**

**Prof. Clifford Neuman**  
Director  
Center for Computer Systems Security  
Information Sciences Institute  
University of Southern California

**Mauro Pecchioli**  
Head of Operations Centre System Infrastructure Section  
European Space Agency  
European Space Operations Center

**FEATURED LUNCHTIME SPEAKER— FEB. 27**

**Brian Roberts**  
Robotic Technology Lead  
Space Servicing Projects Division  
NASA Goddard Space Flight Center