Ground System Architectures Workshop

Stronger Together: Improving Interoperability for Users and Operators

The Aerospace Corporation | El Segundo | California

SAVE THE DATE

Limited in-person seating

Tutorials: **February 22–23, 2023**
General Session: **February 27–March 2, 2023**
Classified Session: **March 2, 2023**

The 27th annual Ground System Architectures Workshop (GSAW) provides a forum for the world's space-related ground system experts to collaborate with their peer ground system users, developers, and researchers through tutorials, presentations, working groups, panel discussions, and technical exhibits. GSAW 2023 welcomes attendees and presenters for the tutorials, general session including working groups, plenary presentations, and technical exhibits.

Over the past 26 years, GSAW has been a voice and resource for the ground systems community. The collaborative community of users, developers, vendors, and researchers has shared best practices and lessons learned in an evolving global space enterprise. GSAW 2023, with the theme *Stronger Together: Improving Interoperability for Users and Operators*, invites you to join us to share your ideas, emerging technologies, and roadmaps for the future with the ground systems community. This year's focus is on leveraging interoperability for enterprise capabilities and data beyond individual programs to consumers and operators, and improving their user experiences. Government and commercial hybrid space architectures enable innovative approaches and partnerships for ground system services while also presenting challenges for streamlined and consistent operation and user experiences. An outcome of the working model of the past two years is a renewed emphasis on remote and hybrid operating models to support both operations resiliency and workforce needs. We are looking to the ground systems community to share their insights, perspectives, and approaches on interoperable architectures and innovations, and especially in areas that could assist, engage, or improve operations and users.

Topics of interest include, but are not limited to, experiences, leading-edge practices, lessons learned, and research in a range of ground system topics, including:

- Multienterprise interoperability, compatibility, and standards
- Continuous deployment, fielding, and monitoring
- End-to-end, holistic, and hybrid government and commercial space architectures
- Cyber security and resiliency
- Roadmaps and reference architectures
- Cost, schedule, governance, and data rights
- Agile, DevSecOps, and rapid system development
- Visualization, user experience design, and human factors engineering
- Predictive analysis, intelligent/cognitive systems, machine learning, and autonomy
- Remote and lights-out operations
- Post-pandemic workforce, automation, and autonomy
- Data science, engineering, fusion, analytics, and exploitation
- Service-based operations
- Innovations in exploiting legacy system capabilities
- Model-based and digital engineering, digital twins
- Mission assurance and risk management
- Space-ground communications
- Virtualization, containers, and hybrid cloud
- Creative business, partnership, and acquisition models
- Situational awareness
- Enablers for interagency cooperation

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GSAW 2023 welcomes you to join:

- Virtual tutorials
- Hybrid (in-person + virtual) working groups
- In-person and on-demand plenary presentations
- In-person technical exhibits and on-demand technical demos
- In-person and on-demand poster sessions
- Classified session (U.S. citizens, TS/SCI level)

Program Format: Hybrid (in-person + virtual)

Classified Session:

Will be held in person on March 2, 2023, at The Aerospace Corporation, El Segundo, California. We are accepting abstracts for plenary presentations, to be delivered in person. Each attendee must possess an active TS/SCI clearance and be a U.S. citizen.

REGISTRATION DEADLINES

Registration Opens: **December 5, 2022**
Tutorial Registration Closes: **February 17, 2023**
Registration Closes: **February 23, 2023**

For more information, please visit our website: *http://gsaw.aero.org*.

GSAW is sponsored by The Aerospace Corporation in cooperation with:

- United States Space Force
- NASA/Jet Propulsion Laboratory, California Institute of Technology
- NASA Goddard Space Flight Center
- European Space Agency
- National Oceanic and Atmospheric Administration
- Software Engineering Institute

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