



June 2013 SpaceOps Update

About the SpaceOps Update

Dear SpaceOps Participant:

You have received this issue of the SpaceOps Update e-newsletter because you have expressed interest in space operations as part of your AIAA membership, attended a past SpaceOps Conference, or requested to be added to the mailing list. The SpaceOps Update is published quarterly and contains information of interest to the space operations community. If you do not wish to receive this e-newsletter in the future, please email info@spaceops.org.

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For more information about the SpaceOps Organization, visit www.spaceops.org or e-mail info@spaceops.org or refer to our online Journal for Space Operations at opsjournal.org.

Submit Your Abstract to SpaceOps 2014!

Abstract Deadline: 5 August 2013



SpaceOps 2014 is THE event to attend if you work in space operations. By participating, you will:

- Network with leading space operations experts in academia, government, and industry
- Learn about the latest developments in operations technology, products, and services
- Discover the latest space operations techniques and lessons from missions and share your mission's innovations with the space operations community
- Hear late-breaking news from agencies and commercial operators
- Explore the dynamic setting of Pasadena, California, home of the Jet Propulsion Laboratory, the lead U.S. center for robotic exploration of the solar system

Hosted by NASA Jet Propulsion Laboratory and organized by the American Institute of Aeronautics and Astronautics (AIAA), SpaceOps 2014 will take place 5-9 May 2014 in Pasadena, California.

For more information, visit www.spaceops2014.org

Call for Nominations for SpaceOps Awards

Abstract Deadline: 4 October 2013

Nominations for the 2014 SpaceOps Awards are currently being accepted. Nominations must be submitted to the SpaceOps Secretariat at info@spaceops.org no later than **4 October 2013**. Descriptions of the SpaceOps awards are below.

International SpaceOps Exceptional Achievement Medal

This award recognizes an individual who has distinguished himself or herself to the field of space operations and support. The recipient shall be an individual whose exceptional contributions were critical to the success of one or more space missions or who has made significant contributions to the field of space operations.

International SpaceOps Award for Outstanding Achievement

This award recognizes outstanding efforts in overcoming space operations and/or support challenges, and recognizes those teams whose exceptional contributions were critical to the success of one or more space missions.

International SpaceOps Distinguished Service Medal

This award recognizes an individual who has distinguished himself or herself with service to the SpaceOps Organization. The recipient shall be an individual who has shown exceptional dedication to the interests of the organization by making significant contributions over an extended period of time.

These awards will be presented during SpaceOps 2014, being held 5-9 May 2014 in Pasadena, California.

For more information about SpaceOps awards, click [here](#).

New and Improved SpaceOps Archive

The SpaceOps paper archive has moved to a new platform to provide more benefits to users. Features of the new archive include:

- Streamlined research capabilities, including searching and downloading citations
- Tracking citation of individual papers and receiving notice of new citations by RSS
- Marking articles, papers, and chapters as favorites for later review and download
- Listing of conference papers available by year
- Current papers available in PDF and PDF Plus formats (additional hyperlinking in the PDF Plus version)

Including papers going back to the SpaceOps 2002 Conference, the archive is a great resource for those working in the space operations community to aid you in solving issues and problems in your programs and projects. There is no charge to download SpaceOps papers.

To access the SpaceOps archive, click [here](#).

Summary of Recent Space Operations Workshops

Improving Space Operations Workshop

30 April-1 May 2013

San Antonio, Texas

The 19th Annual Improving Space Operations Workshop was organized by the AIAA Space Operations and Support Technical Committee and hosted and partially sponsored by the Southwest Research Institute (SwRI). The event had approximately 50 participants and included plenary sessions, separate track discussions, and track summaries, in addition to a tour of SwRI's Space Science and Engineering Division.

Tracks for the 2013 workshop included:

- Satellite Co-location and Collision Avoidance
- Reducing Mission Risk: Best Practices and New Paradigms
- Commercial Space Operations

Plenary sessions covered the following topics:

- Watson in Space: Advanced Decision Support Systems for NASA exploiting IBM's Deep QA Analytics

- (Paul Giangarra, Office of the CTO, IBM Federal)
- Avoiding Counterfeit Electronic Parts (Carlo S. Abesamis, JPL)
- The Space Data Association Framework for Informed and Actionable SSA (Steve Smith, SES)
- Debris Mitigation Strategies, Standards and Best Practices With Sample Application to CubeSats (Dan Oltrogge, AGI)
- Training for Decision Making to Reduce Risk in Mission Control (William S. O'Keefe, United Space Alliance)
- Applying the Maritime Model of Classification Societies to Self-regulate the Commercial Space Industry (Panel discussion)

To access presentations from this workshop, click [here](#).

SpaceOps Workshop
11-13 June 2013
Laurel, Maryland

The SpaceOps 2013 Workshop was co-hosted this year by the Johns Hopkins University Applied Physics Laboratory (JHU/APL) and the NASA Goddard Space Flight Center (NASA/GSFC). The SpaceOps Workshop is held in alternate years to the SpaceOps Conference. It is a goal to have the location of the workshop alternate between North America, Europe, and Asia. Attendance is by invitation with the goal of having between 40-60 participants representing the members of the SpaceOps member organizations.

This year's workshop had about 75 participants from 15 different agencies, companies, and universities with approximately 40-45 participants attending each day. It was opened with welcoming statements from the JHU/APL Space Department Head, Dr. John Sommerer and the NASA/GSFC Associate Director for Flight Projects, Ms. Mary Ann Esfandiari. The workshop included presentations and discussions on three themes:

- Operations Implications with Optical Communications
- Countering Security Threats to Space Flight and Ground Systems
- Human Space Explorations Strategies

Throughout the three days of the workshop, the participants listened and commented on many forward-looking proposals and ideas. Many commented that the benefit of this type of meeting allowed a true openness of collaboration that is sometimes not realized in large conferences. Indeed, important colleagues were connected, and new working relations were formed and strengthened. In closing, we thank the attendees for their invaluable participation and look forward to the next SpaceOps Workshop in 2015, which will be hosted by Telespazio in Fucino, Italy.

To access presentations from this workshop, click [here](#).

Journal of Space Operations & Communicator

A multidisciplinary journal for space flight operations, the Journal of Space Operations & Communicator is jointly published by the AIAA Space Operations and Support Technical Committee and the SpaceOps Organization. This publication is seeking submissions on all topic areas related to the operation of space missions, including their ground support. Representatives of agencies, academia, and industry are encouraged to submit their work.

The next issue of the Journal of Space Operations and Communicator will be published in early July and will contain the first of a three-part series detailing how a six-year old Australian living in Boone, Iowa first became interested in rocketry and how that interest led to his ongoing career in aerospace. This series, excerpted from the autobiography of Dr. Trevor Sorensen (Director of AIAA's Space and Missiles Group and member of the SpaceOps Committee-at-Large) tells the story of how Trevor and his friends, after he returned to Australia and entered high school, learn about how rockets work and put that knowledge to work to build and fly rockets. In addition, it describes how that experience led to a close encounter with the Royal Australian Air Force and how in the process they established an Australia—and possibly world record—for the flight of an amateur rocket, which by the way was not a record that they planned on, nor were pleased with.

The Journal of Space Operations & Communicator is now on Facebook! You are invited to join this unique, ever growing international SpaceOps community for exchange of experience and new ideas!

For more information, visit opsjournal.org/

New SpaceOps Book Coming Soon!

After another successful Space Operations Conference, the SpaceOps Organization and AIAA are pleased to announce that it will be publishing selected papers from the SpaceOps 2012 Conference. *Space Operations: Mission Preparation and Management, Data & Communications, and Mission Execution* will contain a selection of the 291 papers presented, featuring a cross section of three main subject areas: Mission Preparation and Management; Data and Communications, and Mission Execution. Stay tuned to the AIAA website (arc.aiaa.org) for more information on the book release.

For a full list of papers that will be included in the book in electronic format, click [here](#).

SpaceOps Welcomes New Member: General Dynamics C4 Systems

GENERAL DYNAMICS

The SpaceOps Organization is pleased to welcome General Dynamics C4 Systems as a new member.

General Dynamics C4 Systems develops and integrates communication and information systems and technology for a myriad of U.S. government programs, allied nations, and select commercial customers globally. Based in Scottsdale, Arizona, General Dynamics C4 Systems employs over 10,000 employees worldwide and specializes in command and control, communications networking, computing and information assurance.

General Dynamics and its predecessor companies (such as CONTEL, GTE, and Motorola) have been in the space operations business for decades. Its legacy companies built the original TDRSS Ground Terminal in White Sands for NASA, and the Iridium constellation and associated ground system. More recently, as General Dynamics C4 Systems, the company is completing the ground system development and installation for the U.S. Navy's Mobile User Objective System satellite constellation, recently completed upgrades to NASA's White Sands Complex to support the recent TDRS-K satellite launch, and are the prime contractor to NASA to upgrade the White Sands Complex's entire ground system under the Space Network Ground Segment Sustainment contract. The company has a presence in current satellite operations, both at the Navy's Naval Satellite Operations Center and at the NASA Goddard Space Flight Center.

For more information, visit www.gdc4s.com

Join the SpaceOps Organization

As the space operations community grows, we encourage your organization to join the SpaceOps Organization. The SpaceOps Organization has recently created a new membership category for industrial members and other interested organizations.

Participation in SpaceOps as a Partner or a Member will bring you close association with the agencies and partner organizations focusing on space operations, allow you to help determine the content of the biennial conferences, and help shape the future of the community.

Please forward this information to your colleagues and co-workers so that they too can stay on top of what is happening in space operations!

To be added to the SpaceOps mailing list or for more information about becoming a Partner or a Member of the SpaceOps Organization, please email the SpaceOps Secretariat at info@spaceops.org. There are no membership fees.

For more Information, visit www.spaceops.org

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