



December 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 <http://www.spaceops.org> or e-mail info@spaceops.org or refer to our online Journal for Space Operations & Communicator at <http://opsjournal.org>.

Register for SpaceOps 2014!



Join your colleagues from around the world to "Explore Innovation" at the 13th International Conference on Space Operations, held 5- 9 May 2014 in Pasadena, California. It's your opportunity to share your experiences, challenges, and innovative solutions with colleagues from around the globe, and take home new ideas and new connections.

Hosted by NASA Jet Propulsion Laboratory and organized by the American Institute of Aeronautics and Astronautics (AIAA), SpaceOps 2014 will bring together the space operations community to address state-of-the-art operations principles, methods, and tools.

The program is now available online. Visit the SpaceOps 2014 website to view the sessions and speakers planned.

Excellent Opportunities for Exhibitors and Sponsors

SpaceOps 2014 offers first-class exhibition opportunities in the heart of the conference venue. The exhibit hall is the hub of activity during this event—from seeing exhibitor displays to attending special presentations, from enjoying networking breaks to staying in touch at the Cyber Café. The opportunities to meet your partners and clients and promote your services have never been better.

- Present state-of-the-art developments related to the conference theme
- Capture new business opportunities and potential business leads
- Branding, recruitment, and marketing opportunities
- Network with the most influential people in the space operations community
- Reach an international audience and expand company awareness

Sponsorship of SpaceOps 2014 provides your organization visibility and connections within the space operations community that can lead directly to business and partnership opportunities. Sponsors are offered attractive locations in the exhibition area as well as outstanding exposure at well-attended congress events or on printed material and gadgets. We invite you to make the most of the sponsorship opportunities on offer by selecting the options that best suit your needs.

For more information about SpaceOps 2014 visit <http://www.spaceops2014.org>.

Call for Papers for AIAA SPACE 2014 Now Open



At the AIAA Space and Astronautics Forum and Exposition (AIAA SPACE 2014), the best minds in the space industry from across the country and around the world will present the newest developments, help solve the weightiest problems, and try to map both the universe and the future. The event will focus on "Connecting, Protecting, and Enhancing a Global Society". AIAA SPACE 2014 will feature the AIAA/AAS Astrodynamics Specialist Conference, the AIAA Complex Aerospace Systems Exchange, and the 32nd AIAA International Communications Satellite Systems Conference.

Technical topics include:

- Communications Systems
- Astrodynamics Specialist
- National Security Space
- Space and Earth Science
- Space Exploration
- Space Operations & Logistics
- Space Resources & Colonization
- Space History, Society, and Policy
- Space Systems
- Space Transportation and Launch
- Space Robotics and Space Architecture
- Space Systems Engineering and Economics

Deadline for Abstract Submissions: **21 January 2014**

For more information about SPACE 2014 visit <http://www.aiaa-space.org/>.

KARI to Host SpaceOps 2016



The SpaceOps Organization is pleased to announce that the Korea Aerospace Research Institute (KARI) will host SpaceOps 2016, the 14th International Conference on Space Operations. The conference will be held at the Daejeon Convention Center in Daejeon, Korea, in the May 2016 time frame. Founded in 1989, KARI is the aeronautics and space agency of South Korea, playing a key role in the satellite and launch vehicle areas. KARI is a member of the SpaceOps Organization Executive Committee.

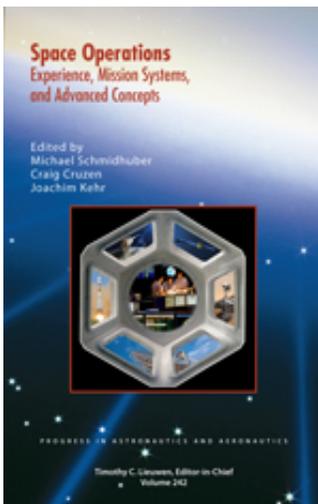
For more information about KARI click [here](#).

Plan to Participate in Improving Space Operations Workshop

The 20th Improving Space Operations Workshop will be held in Pasadena, California, following SpaceOps 2014. The workshop will be held on the afternoon of 9 May and all day on 10 May. Topics for plenary sessions and tracks being considered include Advanced Technology for Improving Operations, Space Traffic Management, Anomaly Handling Techniques, and Improvements to the Astrodynamics Standards produced by AFSPC/A9 and ways that data can be shared among the community for algorithm improvement, software development, and testing. Additional topics are still being considered and details for registration and call for presentations are being finalized.

For more information about the workshop click [here](#).

New SpaceOps Book Published



Space Operations: Experience, Mission Systems, and Advanced Concepts is a collection of materials presented at the 12th SpaceOps Conference, held in Stockholm, Sweden, in June 2012. From the almost 300 papers presented and discussed at the conference, those selected for this volume represent a cross section of three main subject areas: Mission Preparation and Management – mission design, development, and planning; Data and Communications – the infrastructure needed on the ground, from antennas to software, in order to communicate with and retrieve data from spaceborne resources; and Mission Execution – a focus on the aspects of specific space missions during preparation for flight and throughout operations. All of the selected papers exemplify the SpaceOps organization’s goal of presenting and discussing the current state of space operations and the most recent developments in the field.

Previous SpaceOps books include:

Space Operations: Mission Management, Technologies, and Current Applications (2007) [More info](#)

Space Operations: Exploration, Scientific Utilization, and Technology (2011) [More info](#)

For more information about the newest SpaceOps book 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 Space Operations and Support Technical Committee within AIAA 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.

Articles in current issue:

- SpaceOps News: October–December 2013
- 15 Years of ISS Operations
- Book Review: *SpaceOps 2012 Conference Book, Space Operations: Experience, Mission Systems, and Advanced Concepts*
- Book Review: *How Columbus Learnt to Fly*

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 about the Communicator visit <http://opsjournal.org/>.

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.

For more information about the SpaceOps archive click [here](#).

Featured Operations Achievement: Earth Observation at DLR

In early August 2013, the two TanDEM-X mission satellites reversed their formation. Since being launched in 2010, the TanDEM-X satellite has been circling around its twin, TerraSAR-X, in an anti-clockwise direction; after the reversal, it circles clockwise. This complicated change to the formation was necessary to observe regions that are difficult to image, such as mountain ranges, from the opposite viewing angle. The operations have been carefully prepared and successfully executed.

For more information about TanDEM-X click [here](#).

For more information about TerraSAR-X click [here](#).

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 about the SpaceOps Organization visit <http://www.spaceops.org>.

The American Institute of Aeronautics and Astronautics (AIAA) is the world's largest technical society dedicated to the global aerospace profession.



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