

29TH Annual AIAA/USU Conference
on Small Satellites

A stylized graphic illustration featuring a grey rocket with a black band and a yellow satellite dish. The rocket is on the left, pointing upwards, and the satellite dish is on the right, also pointing upwards. The background is a light grey gradient with a dark blue curved line at the top. The text 'ALL SYSTEMS GO!' is prominently displayed in the center-right.

**ALL
SYSTEMS
GO!**

**CRITICAL PIECES
FOR MISSION SUCCESS**

August 8-13, 2015
Logan, UT, USA

ALL SYSTEMS GO!

CRITICAL PIECES FOR MISSION SUCCESS

CALL FOR PAPERS

Truly effective small satellite missions require success across multiple systems. These systems include launch, satellite, payload, ground network, mission operations, and data analysis. Over the past few decades, satellite mission and systems developers have made critical advancements in each of these areas. These advancements have proven the utility of small satellite missions in military, civilian, and commercial endeavors. The 29TH AIAA/USU Conference on Small Satellites will explore the current state and future possibilities within the critical systems, particularly those complementing traditional spacecraft and sensor designs that support mission success.

KEYNOTE SPEAKER

General John E. Hyten

**DATES TO
REMEMBER**

ABSTRACT DEADLINE

February 10, 2015

SELECTED PAPERS DUE

June 9, 2015

SESSION TOPICS

Participants will present stimulating papers that target the Conference theme, with particular focus on one or more of the following session topics:

NEXT ON THE PAD

A preview of missions scheduled to fly within the next 18 months with an emphasis on the scientific or technological purpose of the mission

THE YEAR IN REVIEW

A review of missions launched in the past 18 months with an emphasis on lessons learned and/or the technological advancements that significantly enhanced mission utility

LAUNCH

Launch systems, multi-manifest, or rideshare opportunities specifically designed to provide access to space for small satellites

GROUND SYSTEMS

Innovative technologies or full-up systems (hardware/software) for ground networks, mission operations centers, or science/data analysis centers that significantly advance mission utility

SCIENCE/MISSION PAYLOADS

Innovative technologies or full-up systems that allow cutting-edge missions to be formulated

ADVANCED TECHNOLOGIES

Innovative technologies (hardware/software) that provide significant advancements in small satellite missions

EDUCATIONAL PROGRAMS

Programs that develop engineers and/or scientists through the use of small satellite technology

Gen. John E. Hyten is Commander, Air Force Space Command, Peterson Air Force Base, CO. General Hyten is responsible for organizing, equipping, training and maintaining mission-ready space and cyberspace forces and capabilities for North American Aerospace Defense Command, U.S. Strategic Command and other combatant commands around the world. General Hyten also oversees Air Force network operations; manages a global network of satellite command and control, communications, missile warning and space launch facilities; and is responsible for space system development and acquisition. General Hyten earned a BS in Engineering and Applied Sciences from Harvard University and an MBA from Auburn University. He is also a distinguished graduate of Squadron Officer School and Air Command and Staff College, both at Maxwell AFB, AL.



PRE- CONFERENCE WORKSHOP

**WORKSHOP TECHNICAL CHAIR
JORDI PUIG-SUARI, CAL POLY**

The CubeSat Developer's Workshop is an opportunity for CubeSat developers to come together to share ideas and personal experiences in developing picosatellites. The workshop provides valuable insight to new and longstanding participants of the CubeSat community.

Presentation categories include:

- Science Missions
- University Missions
- Launch Capabilities, Testing and Simulation
- Education and Design Philosophy
- Subsystems, Payloads and Deployables
- Communications and Power

Abstracts must be submitted electronically via the Conference website. Directions and links for the submittal process can be found at www.smallsat.org.

- No paper required
- Presentation due July 24, 2015

Selected presentations will be included in the Small Satellite Conference online proceedings. Proper approval and clearances are the responsibility of the author; please plan accordingly.

For questions or additional information, contact Marianne Sidwell marianne.sidwell@usurf.usu.edu or (435) 713-3119.

ABSTRACT DEADLINE FEBRUARY 10, 2015



12TH ANNUAL SUMMER CUBESAT DEVELOPERS' WORKSHOP

**SATURDAY AND SUNDAY
AUGUST 8-9, 2015**





GENERAL TECHNICAL SESSIONS AND POSTER SESSIONS

Abstract Due: February 10, 2015

Selected Papers Due: June 16, 2015*

Presentation Due: Onsite

*not required for poster sessions

ABSTRACT SUBMISSION

To be considered as a presenter for the technical sessions or poster sessions, an abstract on your research must be submitted. Abstracts are selected by a peer review panel based on technical content, value to the Conference, applicability to session topic, and lack of advertisement. Abstracts that focus primarily on the marketing of commercial material are strongly discouraged.

Abstracts must be submitted electronically via the Conference website. Directions and links for the submittal process can be found at www.smallsat.org.

Abstracts should clearly summarize the proposed presentation or poster in one page.

Each abstract must include:

- Point of contact name and contact information
- Presenter name and contact information
- List of authors including name, affiliation, and email address
- Title of paper
- Abstract—500 character maximum, ascii text only
- The 2015 session topic that best describes the abstract

By submitting, each author/coauthor agrees to the following conditions:

- The Small Satellite Conference is authorized to circulate abstracts to committee members and reviewers for evaluation and selection purposes.
- Accepted abstracts will be posted on the Conference website.

Please Note: Selected papers, posters and presentations will be included in the Small Satellite Conference online proceedings. Proper approval and clearances are the responsibility of the author; please plan accordingly.

For questions or additional information, contact Marianne Sidwell
marianne.sidwell@usurf.usu.edu or (435) 713-3119.



CALL FOR EXHIBITORS

We invite organizations to participate in the commercial exhibit at the 29TH Annual Small Satellite Conference. Exhibiting provides the opportunity to showcase products and services to professionals within the US Government and supporting industries, and international and domestic representatives from related industries and academia.

EXHIBIT REGISTRATION

Applicants must submit the online Commercial Exhibit Registration Form including payment deposit via credit card, agreement to abide by the show rules and regulations, and location preferences.

Exhibit spaces sell out quickly. In order to increase the likelihood of your organization being assigned to its preferred booth space, please register within the three day time frame.

Organizations that register after February 5 will be placed on a waiting list and assigned a booth space based upon availability and the time and date that reservations were received.

For the exhibit rules and regulations, schedule, layout, tips for registering and to access the online registration form, please visit our website at www.smallsat.org.



EXHIBIT SPACE



EXECUTIVE SUITES

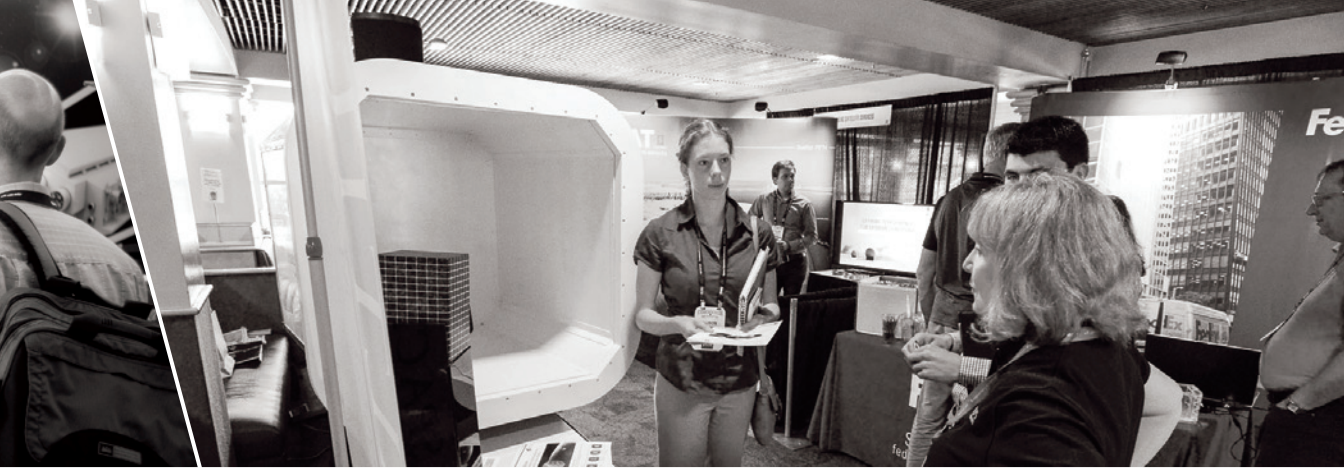
The Suites can be split between up to two partner companies

EAST COLONY

460 ft²
\$3750

CENTER COLONY

900 ft²
\$5000



SINGLE BOOTH

8'D X 10'W

\$1250

DOUBLE BOOTH

8'D X 20'W

\$2500

TABLETOP

2'D X 8'W

\$750



COMMERCIAL EXHIBIT REGISTRATION

February 3-5, 2015

2015 EXHIBITS

Exhibit Booths are sold as a single, double, tabletop or executive suite. Triple booths are no longer available as an option in order to accommodate more organizations.

Exhibitor executive suites are available with new titles—East Colony, Center Colony, and West Colony. The suites may be split between two partner companies. Both companies must complete a registration form.

Booth spaces are awarded according to a credit system for companies who have exhibited or sponsored previously; first-come, first-served for new companies.

For questions or additional information, contact Lisa Perkes at lisa.perkes@usurf.usu.edu or (435) 713-3187.

WEST COLONY

600 ft²

\$3750

UNIVERSITY EXHIBIT

The University Exhibit provides an excellent opportunity for students to meet potential employers, graduate advisors, and peers with similar interests.

Registration for university exhibit spaces will begin at 9:00 A.M. MST on January 8, 2015. Exhibit space reservations may be made online only. University exhibit space is assigned on a first-come, first-served basis.

The University Exhibit Registration Form and the exhibit layout can be found on the Conference website at www.smallsat.org. Spaces fill quickly; prompt registration is recommended.

UNIVERSITY EXHIBIT SPACE: \$200

**UNIVERSITY EXHIBIT
REGISTRATION**
January 8, 2015

CONFERENCE ORGANIZING COMMITTEE

Pat Patterson

Chairman

Charles Swenson

Associate Chairman

Aaron Rogers

Technical Chair

Jaimie Kandler

Communications Chair

Stanley O. Kennedy, Jr.

Technical Chair

FJR Student Competition

Valerie Skarupa

Endowment Chair

FJR Student Competition

Marianne Sidwell

Conference Administrator

Lisa Perkes

Exhibit Manager





SPONSORSHIP OPPORTUNITIES

Corporate sponsorship opportunities are available to organizations wishing to elevate their visibility during the Conference. Sponsors receive increased exposure through Conference publications, the Conference website, and on-site recognition. Sponsorships are available to any organization, regardless of exhibit participation.

Registration for sponsorships begin at 9:00 A.M. MST February 3, 2015. Sponsorships will be assigned on a first-come, first-served basis and are limited to one sponsorship per organization.

Sponsorship package amenities and registration details are available at www.smallsat.org. For sponsorship questions contact Lisa Perkes at lisa.perkes@usurf.usu.edu or (435) 713-3187.

- Pre-Conference Workshop Luncheon
Sponsorship Price: \$1000
Available Saturday and Sunday
- Monday Brunch
Sponsorship Price: \$1,000
- Munch and Mingle Luncheon
Sponsorship Price: \$1,250
Available Tuesday through Thursday
- Refreshment Break
Sponsorship Price: \$625
Available Monday through Thursday
- Ice Cream Social
Sponsorship Price: \$3,000
Available Monday and Wednesday
- Launch Pad Patio
Sponsorship Price: \$600

SPONSORSHIP REGISTRATION
FEBRUARY 3, 2015



23RD ANNUAL FRANK J. REDD STUDENT COMPETITION

The Student Competition provides students with the opportunity to share their work on small satellite concepts and missions. Awards are given to competition finalists presenting at the Small Satellite Conference.

Papers may be presented on relevant study and research related to small satellites, their systems and subsystems, mission concepts, and related infrastructure (launch vehicles or ground systems). Concepts (actual or proposed) may include hardware, uniquely applicable software, or mission results that serve to advance the state of the art or broaden the application of small satellites.

Participation is open to full-time undergraduate and graduate students (masters only) pursuing a degree in an engineering or scientific discipline at an accredited college or university. Students currently enrolled in a PhD degree program are not eligible for the student competition, but are invited to submit their research for consideration in the regular technical program. Previous first, second or third place winners are not eligible for the competition. Visit the Conference website at www.smallsat.org/students for the complete competition rules and helpful guidelines.



ENDOWMENT FUND

The Student Competition Endowment Fund was established to encourage students to do research in small satellites and related areas and to promote continuing education. Contributor Recognition Program details can be found on the website at www.smallsat.org/students.

INSTRUCTIONS FOR CONTRIBUTION SUBMITTAL

Contributions by check payable to:
Utah State University

Contributions sent to:
Utah State University
Attn: Marianne Sidwell
1695 North Research Park Way
North Logan, UT 84341

For easy online
donation go to
www.smallsat.org

The Frank J. Redd student competition offers us the opportunity to present our work to academia and industry, get valuable feedback, build collaborations and begin conversations about future careers and job opportunities. The entire process, starting in April through August, is very well organized and the timeline encourages us to write up a well-defined part of our research as a technical paper, put together a presentation, present it and tackle questions from a panel of experts who have reviewed the papers. It's a great way to polish up these necessary skills and also pays for a fantastic week at Logan with friends and colleagues, brainstorming about the next "small" thing. I encourage everyone interested in small satellites to apply and share the spotlight!

—Sreeja Nag, 2014 First Place Winner



STUDENT PAPERS DUE
April 17, 2015





Utah State University
RESEARCH FOUNDATION

Small Satellite Conference
1695 N Research Park Way
North Logan, UT 84341



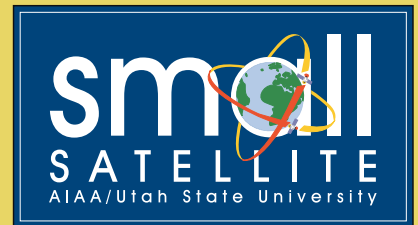
CONTACT INFORMATION

ABSTRACT SUBMITTAL, STUDENT COMPETITION, GENERAL CONFERENCE INFORMATION

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COMMERCIAL AND UNIVERSITY EXHIBITS, SPONSORSHIPS

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(435) 713-3187



CALL FOR PAPERS

CALL FOR EXHIBITORS

VISIT OUR WEBSITE
WWW.SMALLSAT.ORG