



## THE CONFERENCE

The international IEEE Aerospace Conference, with AIAA as technical cosponsor, is organized to promote interdisciplinary understanding of aerospace systems, their underlying science and technology, and their applications to government and commercial endeavors. It is an annual, week-long conference designed for aerospace experts, academics, military personnel, and industry leaders and is set in a stimulating and thought-provoking environment.

The 2010 conference is the 31<sup>st</sup> conference since its inception in 1980.

## WHAT SETS THIS CONFERENCE APART

**High-Quality Papers and Presentations.** Each year, a large number of presentations are given by professionals distinguished in their fields and by high-ranking members of the government and military.

**Science and Aerospace Frontiers.** The plenary sessions feature internationally prominent researchers working on frontiers of science and engineering that may significantly impact the world we live in. Registrants are briefed on cutting-edge technologies emerging from and intersecting with their disciplines.

**Multidisciplinary Focus.** This is the only general IEEE conference designed to facilitate cross-fertilization of aerospace disciplines and dialogue among members of government, industry, and the academic community.

**Exceptional Networking Opportunities.** The conference provides extraordinary opportunities for discussions and collaborative dialogue with aerospace pacesetters. Professional exchanges, which may extend years beyond the week-long conference, benefit the participants, their organizational sponsors, industry, and the engineering and scientific professions. See the schedules and more details on page 6.

**Author Development.** The conference provides unusually thorough and supportive paper reviews, relying on expert guidance from senior engineers and scientists, as well as language reviewers, and an opportunity for instructive interaction between author and reviewers. First-time authors are nurtured.

**Conference Proceedings.** CD-ROM Proceedings (over 4,500 pages last year) are distributed at the Conference during registration.

**International Participation.** The conference attracts a growing number of foreign attendees. Representatives of 23 countries participated in the 2009 conference.

**Sequestered Venue.** The conference center and lodging nestle closely together in the small village of Big Sky, fostering communications and ensuring easy access to all events.

**FRONT COVER** – Small crater on arcuate ridge west of Olympia Mensae. High-Resolution Imaging Science Experiment (HiRISE) image. This image features arcuate ridges in the high northern plains. It has been suggested that arcuate ridges were formed by ancient glaciers on Mars.

## TECHNICAL PROGRAM

This Call invites papers reporting original work or state-of-the-art reviews that will enhance knowledge of:

- Aerospace systems, science and technology
- Applications of aerospace systems or technology to military, civil or commercial endeavors
- System engineering and management science in the aerospace industry
- Government policy that directs or drives aerospace programs, systems and technologies.

Specific topics planned for the 2010 Conference are listed in the **Tracks, Sessions and Organizers** section, pages 7–22 of this Call.

## NETWORKING PROGRAM

The Networking Program provides opportunities for engaging with other conference professionals beyond the technical sessions. Networking events include:

- Saturday arrival icebreaker reception
- Buffet dinners at four evening meetings
- Pre-dinner receptions
- Midweek mountainside lunch
- Pre-session Java Jams
- ‘Tween-session mountain recreation
- Post-session fireside ice cream social
- Friday evening farewell dinner

**The costs for these are covered in the registration and guest activity fees.**

An expanded activity program for guests has also been planned. Recreation options can be found in the Activities insert.

## WHO SHOULD ATTEND?

This is a conference for **Participants**. Consider attending if you have a professional interest in aerospace engineering or science and wish to:

- Present results and insights from own work
- Interact with colleagues who present papers in your field
- Engage with people and ideas across a broad spectrum of aerospace technologies
- Understand how your organization might participate in next year’s conference.

### *What Attendees Say:*

- “This is the one conference every engineer wants to attend.”*  
*“Excellent work. I really enjoyed the conference, well organized, great work on logistics.”*  
*“I liked the networking, session content, conference papers.”*  
*“Great organization. Fantastic plenary speakers.”*  
*“The atmosphere at this conference is great! Pleasant place, affable attendees, great fun!”*  
*“Don’t change a thing!”*  
*“This is the best conference I’ve ever attended!”*

**REAR COVER – F-35 Lightning II.** The F-35 Lightning II Program (also known as the Joint Strike Fighter Program) is the Department of Defense’s focal point for defining affordable next-generation strike aircraft weapon systems for the Navy, Air Force, Marines, and our allies.

## ABSTRACT SUBMISSION

A 500-word abstract must be received at the Conference web site [www.aeroconf.org](http://www.aeroconf.org) by **July 1, 2009**. (Click on the blue **Submit Abstract** link and follow the instructions.)

**Abstracts will be accepted ONLY through the Conference web site.** Accept/reject notices and author instructions will be emailed promptly.

Note: The IEEE Aerospace Conference is designed as a venue for engineers and scientists to present and discuss their work with one another. **Please submit only if you expect to attend the conference yourself or have your paper presented by a colleague.** (See **IEEE Policy on Presentation, below.**)

## PAPER SUBMISSION

**DRAFT** papers of 6–20 pages must be submitted for review **no later than November 1, 2009**, a **firm** deadline! Each paper must be submitted electronically as a single Microsoft Word® file, following the instructions at [www.aeroconf.org](http://www.aeroconf.org). Papers will be reviewed and comments made available to authors for electronic download by November 15. **FINAL** papers responsive to reviewer comments must be submitted electronically to the website by **January 4, 2010**.

Questions regarding the review process may be directed to:

Charles Fogg, Paper Review Chair  
Charles.Fogg@aero.org  
310-336-0655

An **IEEE Copyright Form**, downloadable from the web site, **MUST** be signed and submitted to IEEE Aerospace Conferences Office, 1301 Lynngrove Drive, Manhattan Beach, CA 90266 by **January 30, 2010**.

Submitted papers are considered for the conference **Best Paper Award**, which is selected prior to the conference on the basis of “technical innovation and technical presentation” of the written paper.

## IEEE POLICIES ON PRESENTATION AND REUSE

### Publication of Conference Papers in the *IEEE Xplore* Digital Library

The new IEEE policy on publication of papers accepted for IEEE conferences states that “IEEE reserves the right to exclude a paper from distribution after the conference (e.g., removal from *IEEE Xplore*), if the paper is not presented at the conference.”

*IEEE Xplore* is the association’s digital library of nearly 2 million full-text documents. IEEE journals and conference proceedings are among the world’s most highly cited technical publications.

### Reuse of Conference Papers in Journal Publications

IEEE policy recognizes and encourages the evolutionary publication process from conference presentation to scholarly publication. Guidelines for author reuse of their presented papers can be found at :

[www.ieee.org/web/publications/rights/Section\\_822F.htm](http://www.ieee.org/web/publications/rights/Section_822F.htm)

A list of IEEE journals can be found at:

[ieee.org/web/publications/journmag/index.html](http://ieee.org/web/publications/journmag/index.html)

## REGISTRATION

The conference registration fee for members and non-members includes:

- Access to all technical sessions
- Conference Proceedings on CD-ROM
- Conference Digest and Schedule
- Recreation activities discount
- Networking/Social Program
  - Five catered dinner buffets
  - Mid-week mountainside lunch
  - Saturday night icebreaker reception
  - Four pre-dinner socials
  - Four post-session ice cream socials
  - Hot beverages before morning and afternoon sessions

REGISTRATION FEES (in US\$) Including Activities & Meals Package	Received by Dec 1, 2009	Received after Dec 1, 2009	Received after Jan 26, 2010
IEEE & AIAA Members	790	950	1,120
Non-Members	950	1,150	1,300
Guests (Activities & Meals)	210	230	250

**For Travel and Lodging, see page 4.**

## FOR MORE INFORMATION

VISIT OUR WEB SITE: [www.aeroconf.org](http://www.aeroconf.org)

For updates, paper submittal instructions, and the latest information on the 2010 Conference.

**THE OFFICIAL LANGUAGE** of the conference is English, and the official currency is the US dollar.

### CONFERENCE RELATED QUESTIONS

#### Chair

David Woerner 818-393-2000 [dwoerner@ieee.org](mailto:dwoerner@ieee.org)

#### Vice Chair

Howard Neely 310-317-5829 [neely@hrl.com](mailto:neely@hrl.com)

### TECHNICAL PROGRAM QUESTIONS

#### Program Co-Chairs

Richard Mattingly 818-354-4605 [richard.mattingly@jpl.nasa.gov](mailto:richard.mattingly@jpl.nasa.gov)

Karen Profet 310-545-9642 [karen.profet@aeroconf.org](mailto:karen.profet@aeroconf.org)

Ed Bryan 310-454-9461 [edbryan@alumni.caltech.edu](mailto:edbryan@alumni.caltech.edu)

Mel Montemerlo 703-455-6215 [montemerlo@gmail.com](mailto:montemerlo@gmail.com)

#### International Liaison

Tommaso Rossi 39 06 72597283 [tommaso.rossi@uniroma2.it](mailto:tommaso.rossi@uniroma2.it)

### REGISTRATION QUESTIONS

#### Registration Chair

Monica Panno 818-227-1512 [ieeregistrar@earthlink.net](mailto:ieeregistrar@earthlink.net)

### PAPER REVIEW QUESTIONS

#### Paper Review Chair

Charles Fogg 310-336-0655 [charles.fogg@aero.org](mailto:charles.fogg@aero.org)

# TRAVEL AND LODGING

Special travel rates are available from major cities through the conference travel agent. Lodging at special rates has been obtained for a limited number of units near the Conference Center.

Priority is given to authors (and their guests) with early payment of registration and lodging.

## LODGING RATES\*\*

*Per person for 7 nights, 2 persons/bedroom*

Unit and Occupancy				Rate
Huntley Lodge*	First Class	2 queen beds	2	760
Huntley Lodge*	Deluxe/View	2 queen beds	2	795
Huntley Lodge*	Loft	2 queen beds + loft queen	2	920
Summit Hotel*	Hotel Room	2 queen beds	2	920
Summit Hotel*	Studio	Murphy, kitchen, fireplace	2	815
Summit Hotel*	One Bedroom	1 queen, sleeper sofa, kitchen, 2 baths	4	755
Summit Hotel*	Two Bedrooms	2 queens, sleeper sofa, kitchen, 3 baths	6	630
Shoshone Condominiums	One Bedroom Suite	1 queen, 1 murphy, kitchen, sleeper sofa, fireplace, 2 baths	2	1,105
Shoshone Condominiums	One Bedroom Corner Suite	1 queen, 1 murphy, kitchen, sleeper sofa, fireplace, 2 baths	2	1,210
Village Center	Studio	1 queen murphy, sleeper sofa, kitchen, fireplace, 1 bath	2	760
Village Center	One Bedroom	1 queen, sleeper sofa, kitchen, fireplace, 2 baths	4	755
Village Center	Two Bedrooms	2 queens, sleeper sofa, kitchen, fireplace, 3 baths	6	630
Stillwater Condominiums	One Bedroom	1 bedroom, 1 bath	2	750
Stillwater Condominiums	One Bedroom	1 bedroom, loft, 2 baths	4	495
Stillwater Condominiums	Two Bedrooms	2 bedrooms, 2 baths	4	525
Big Horn Condominiums	Two Bedrooms	3 bedrooms, 3 baths	6	488
Arrowhead Condominiums	Three Bedrooms	3 bedrooms, 3 baths	6	690

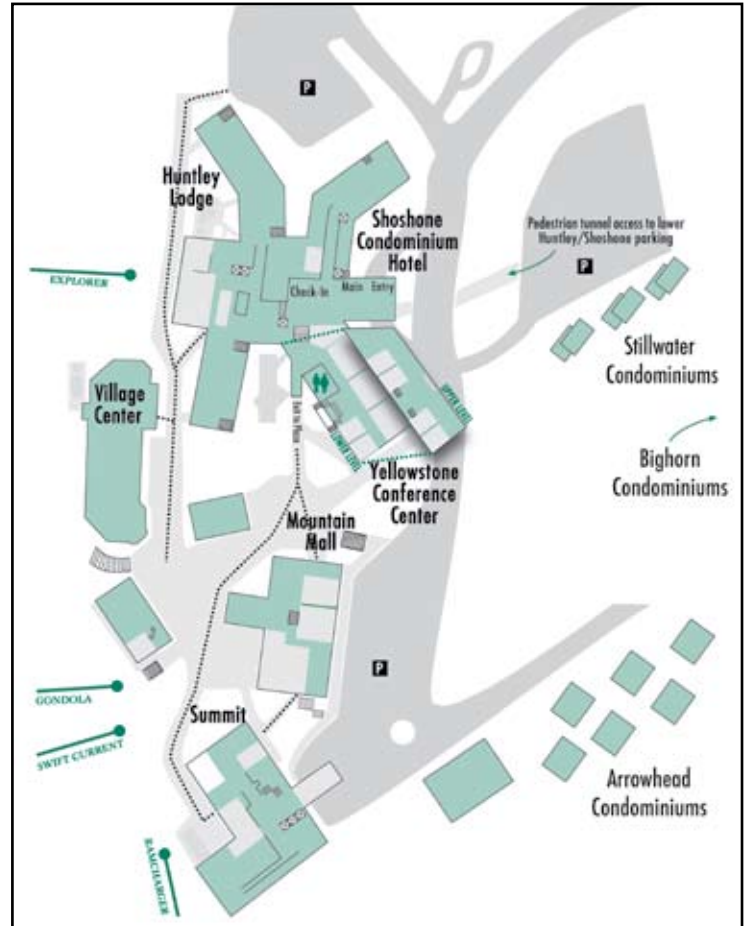
*Per person for 7 nights, 1 person/bedroom*

Huntley Lodge*	First Class	2 queen beds	1	1,375
Huntley Lodge*	Deluxe/View	2 queen beds	1	1,435
Huntley Lodge*	Loft	2 queens + loft queen	1	1,690
Village Center	Studio	1 queen murphy, kitchen, sleeper sofa, fireplace 1 bath,	1	1,410
Summit Hotel*	Hotel Room	2 queen beds	1	1,668
Summit Hotel*	Studio	Murphy, kitchen, fireplace	1	1,480

\*Includes full breakfast buffet (Huntley Lodge & Summit Hotel only).

\*\*Does NOT include taxes, service fees, or baggage handling.

## BIG SKY LODGING



ARRANGE REGISTRATION,  
TRAVEL, & LODGING

AT

[www.aeroconf.org](http://www.aeroconf.org)

AFTER OCTOBER 1, 2009