



CALL FOR PAPERS

The 2013 AAS/AIAA Astrodynamics Specialist Conference

Hilton Head Marriott Resort and Spa, Hilton Head, South Carolina

ABSTRACT DEADLINE: April 12, 2013

The 2013 AAS/AIAA Astrodynamics Specialist Conference will be held Sunday, August 11 through Thursday, August 15, 2013 at the Hilton Head Marriott Resort and Spa in Hilton Head, South Carolina. The conference is organized by the American Astronautical Society (AAS) Space Flight Mechanics Committee and co-sponsored by the American Institute of Aeronautics and Astronautics (AIAA) Astrodynamics Technical Committee. Manuscripts are solicited on topics related to space-flight mechanics and astrodynamics, including but not necessarily limited to:

- Asteroid and non-Earth orbiting missions
- Atmospheric re-entry guidance and control
- Attitude dynamics, determination and control
- Attitude-sensor and payload-sensor calibration
- Dynamical systems theory applied to space flight
- Dynamics and control of large space structures and tethers
- Earth orbital and planetary mission studies
- Flight dynamics operations and spacecraft autonomy
- Orbit determination and space-surveillance tracking
- Orbital debris and space environment
- Orbital dynamics, perturbations, and stability
- Rendezvous, relative motion, proximity operations, and formation flying
- Reusable launch vehicle design, dynamics, guidance, and control
- Satellite constellations
- Spacecraft guidance, navigation and control (GNC)
- Space Situational Awareness (SSA), Conjunction Analysis (CA), and collision avoidance
- Trajectory/mission/maneuver design and optimization

Manuscripts will be accepted based on the quality of the extended abstract, the originality of the work and/or ideas, and the anticipated interest in the proposed subject. Submissions that are based on experimental results or current data, or report on ongoing missions, are especially encouraged. Complete manuscripts are required no later than August 6, 2013. English is the working language for the conference.

Additional and up-to-date information can be found at the conference website:

http://www.space-flight.org/docs/2013_astro/2013_astro.html

SPECIAL SESSIONS

Proposals are being considered for suitable special sessions, such as topical panel discussions, invited sessions, workshops, mini-symposia, and technology demonstrations. A special session proposal should include the session title and a brief description of the topic(s). As applicable, the proposal should also include a list of the invited speakers and their qualifications, a list of proposed activities, and/or paper titles. Prospective special session organizers should submit their proposals to the Technical Chairs.

BREAKWELL STUDENT TRAVEL AWARD

The AAS Space Flight Mechanics Committee announces the John V. Breakwell Student Travel Award. This award covers travel expenses up to \$1000 for one or more U.S. and Canadian students presenting at this conference. Students wishing to apply for this award are strongly advised to submit their completed manuscript by the abstract submittal deadline. Additional details and the application may be obtained via <http://www.space-flight.org>.



INFORMATION FOR AUTHORS

Because the abstract submission deadline of April 12, 2013 has been fully extended for the convenience of contributors, there are no plans to defer this deadline. Notification of acceptance will be sent via email by May 14, 2013. Detailed author instructions will be sent by email following acceptance. By submitting an abstract, the author affirms that the manuscript's majority content has not been previously presented or published elsewhere.

Authors may access the web-based abstract submittal system using the link available via the official web-site <http://www.space-flight.org>. During the online submission process, authors are expected to provide:

1. a paper title, as well as the name, affiliation, postal address, telephone number, and email address of the corresponding author and each co-author,
2. an extended abstract in the Portable Document File (PDF) format of at least 500 words that includes the title and authors, and provides a clear and concise statement of the problem to be addressed, the proposed method of solution, the results expected or obtained, and an explanation of its significance to astrodynamics and/or space-flight mechanics, with pertinent references and supporting tables and figures as necessary, and,
3. a condensed abstract (100 words) to be included in the conference program, which is directly typed into the text box provided on the web page and avoids the use of special symbols or characters, such as Greek letters.

Foreign contributors requiring an official letter of acceptance for a visa application should contact the Technical Chairmen by email at their earliest opportunity.

Technology Transfer Notice – Technology transfer issues can substantially extend the time required to prepare abstracts and manuscripts by private enterprises and government agencies. It is the responsibility of the author(s) to manage this process to ensure a timely submission.

No-Paper/No-Podium Policy – A complete manuscript must be electronically uploaded to the web site prior to August 6, 2013 in PDF format, be no more than twenty (20) pages in length, and conform to the AAS manuscript format. If a complete manuscript is not received on time, then its presentation at the conference shall be forfeited; and if a presentation is not made by an author at the conference, then the manuscript shall be omitted from published proceedings.

Questions concerning the submission of manuscripts should be addressed to the technical chairs:

AAS Technical Chair

Dr. Stephen B. Broschart
Jet Propulsion Laboratory
M/S: 301-121, 4800 Oak Grove Dr.
Pasadena, CA 91109
(818)354-4073
[Stephen.B.Broschart\(\(AT\)\)jpl.nasa.gov](mailto:Stephen.B.Broschart((AT))jpl.nasa.gov)

AIAA Technical Chair

Dr. James D. Turner
Texas A&M University
745 H.R. Bright Bldg., 3141 TAMU
College Station, TX 77840
(979) 458-1429
[turner\(\(AT\)\)aeromail.tamu.edu](mailto:turner((AT))aeromail.tamu.edu)

All other questions should be directed to the General Chairs:

AAS General Chair

Dr. Kathleen Howell
Purdue University
School of Aeronautics and Astronautics
West Lafayette, IN 47907
(765) 494-5786
[howell\(\(AT\)\)purdue.edu](mailto:howell((AT))purdue.edu)

AIAA General Chair

Dr. Felix Hoots
The Aerospace Corporation
15049 Conference Center Drive
Chantilly, VA 20151
(571) 307-4206
[Felix.R.Hoots\(\(AT\)\)aero.org](mailto:Felix.R.Hoots((AT))aero.org)