



The Greater Huntsville Section of the American Institute of Aeronautics and Astronautics (AIAA) will hold its first ever Young Professionals Symposium on October 20-21, 2016 at the Dynetics facility in Huntsville, Alabama (www.aiaayps-hsv.com). The purpose of this meeting is to provide an opportunity for young professionals to give a technical presentation to a group of peers and promote opportunities for interaction (technical and non-technical) with senior professionals in attendance. Registration is \$15 for all AIAA members, presenters, and Dynetics employees and \$25 for others.

In addition to technical presentations, the symposium will also include panel discussions alongside professional development and networking opportunities.

To be considered a young professional, the presenter must be 35 years of age or under at the time of abstract submission. As travel to national and international conferences tends to be difficult for YPs, this is a unique opportunity for young professionals in academia, industry, and government to present their work and identify opportunities for alignment and collaboration in a more local setting.

The symposium will be 2 days in length with 7 planned technical sessions. The symposium organizing committee calls for abstracts related to presentations in the following areas:

1) Space Exploration and Environments

This session includes development of exploration concepts and architectures, research on living and working in the space environment, effects of spaceflight on the human body, radiation effects, microgravity payloads and research initiatives, and space debris cataloging and removal concepts.

2) Guidance, Navigation and Control (GN&C) and Communications

This session focuses on work related to GN&C and communications for aircraft and spacecraft including but not limited to satellites, rotorcraft, unmanned vehicles, and missiles.

3) Materials, Structures and Dynamics

The materials, structures, and dynamics session will include content on advanced materials, manufacturing process development, dynamics and vibrations of high degree-of-freedom systems, environmental effects on materials, verification and certification of new materials in aerospace applications.

4) Propulsion Systems and Transportation Architectures

This session encompasses work on propulsion systems used in aerospace applications including but not limited to airbreathing propulsion systems, rocket engines and motors, and advanced propulsion concepts. The session also includes mission architectures that are enabled by these propulsion systems.



5) Modeling and Simulation

Presentations in this session should relate to optimization, modeling of systems and environments, air traffic management, motion systems/visual systems/image generation, hardware-in-the-loop simulations, and verification and validation.

6) Aerodynamics and Aeroacoustics

This session will focus on subsonic/transonic/supersonic/hypersonic aerodynamics, aerodynamic control systems, acoustic/fluid dynamics interactions, active control of noise and vibrations, sonic boom mitigation techniques, testing techniques, and integration effects.

7) Special topics

This session includes the topics of education and outreach, safety and mission assurance, aeronautics and space policy, aerospace law and regulations, and any other topics which do not fit into technical sessions 1-6.

To present, please submit an abstract of no more than 1 page summarizing the scope of their work/project, key results, and the importance of the work to the broader aeronautics/astronautics community. Abstracts should include the title of the presentation, the author(s) and affiliation(s), the technical track (use the corresponding number indicated above) and the abstract text. If there are multiple authors, please indicate which author(s) will be presenting (group presentations of the work are permitted).

To submit an abstract, please complete the abstract submission form and e-mail to chair@aiaayps-hsv.com by August 1, 2016. Authors of accepted abstracts will be notified via e-mail in early September 2016.

A paper is *not* required to present at the symposium. However, the author(s) can develop the abstract into a paper that will be made available as part of the conference proceedings. Further information about paper content, format, and deadlines will be made available to author(s) of accepted abstracts at a later date. Please indicate whether you plan to submit a paper at the time of abstract submission.

The symposium will not include separate sessions for material classified as SBU or ITAR. It is the **presenter's responsibility** to ensure that any material presented has been cleared for public release by his/her organization.

Questions or requests for further information about the technical aspects of the symposium or the abstract submittal process can be e-mailed to chair@aiaayps-hsv.com.