



AHS International
San Francisco Bay Area Chapter



CALL FOR PAPERS

Fifth Decennial AHS Aeromechanics Specialists' Conference

Holiday Inn at Fisherman's Wharf, San Francisco, California, Jan. 22-24, 2014
Sponsored by the San Francisco Bay Area Chapter

The AHS Aeromechanics Decennial Conferences, held every 10 years since 1974, have documented remarkable scientific advances and engineering achievements in rotorcraft aeromechanics.

The theme of the Fifth Decennial AHS Aeromechanics Specialists' Conference is "**Current Challenges and Future Directions in Rotorcraft Aeromechanics.**" This conference will provide a forum to discuss emerging challenges and identify future research directions in rotorcraft aeromechanics.

The General Chair for this event is **Ms. Susan A. Gorton**, NASA Langley Research Center, 757-864-5059, susan.a.gorton@nasa.gov. The Technical Chair is **Dr. Hyeonsoo Yeo**, U.S. Army Aeroflightdynamics Directorate (AFDD), 650-604-6168, hyeonsoo.yeo.civ@mail.mil.

Topics - Papers are invited in all areas related to rotorcraft aerodynamics, acoustics, dynamics, handling qualities, and testing. In particular, papers describing revolutionary rotorcraft concepts and emerging aeromechanics technologies to meet operational requirements of the Future Vertical Lift/Joint Multi-Role aircraft are emphasized. Interdisciplinary technologies required for accurate analysis and design of rotorcraft performance, loads, vibration, noise, stability, and control are welcome. Papers that include analytical developments, experimental studies, and correlation/validation efforts are encouraged. Analytical papers may range from basic aerodynamic flow and structural dynamic prediction to high-fidelity computational analyses.

Experimental papers may span model- to full-scale wind tunnel and flight test programs as well as ground-based or in-flight simulations. Test and evaluation studies enabling insight and improvement in rotorcraft design and aeromechanics characteristics are desired. Finally, the synergy of rotorcraft sizing codes, multi disciplinary aeromechanics analysis, and optimization is of interest.

Abstract Submittal - Abstracts must be written in English and not exceed 5 pages including background, approach, key results, conclusions, and sample supporting figures. The approach and results should be presented in sufficient detail to allow the reviewer to determine the quality, scope, significance and current status of the work that will be described in the final paper. Abstracts must be submitted in PDF file format. Email abstracts, including paper title, author(s), affiliation(s), address, phone, and e-mail address no later than **Monday, July 8, 2013** to the Technical Chair: **Dr. Hyeonsoo Yeo**, hyeonsoo.yeo.civ@mail.mil.

Completed Papers - Authors will be notified of final selection by **Monday, August 12, 2013**. Presentations will be given in an open forum and all papers will be published in the meeting proceedings on CD-ROM. Final papers in electronic format are due on **Monday, December 23, 2013**. A "no paper, no podium" policy will be observed for this conference. The author is responsible for any necessary clearances and approvals. All questions should be directed to the Technical Chair: **Dr. Hyeonsoo Yeo**.