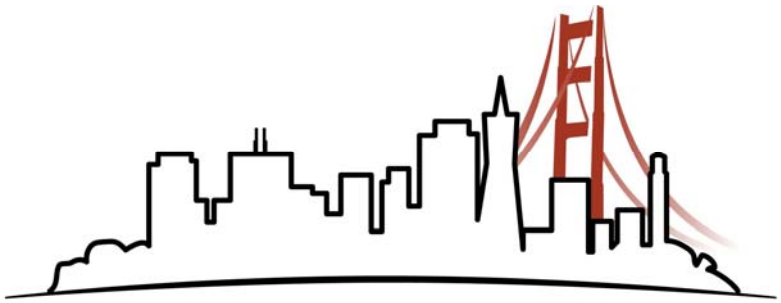
Call for Papers

Future Vertical Lift Aircraft Design Conference

January 18-20, 2012
Fisherman's Wharf, San Francisco, California



Overview: The Conference will focus on Future Vertical Lift Aircraft (FVLA) design technology. Of special interest is (1) how manned and unmanned FVLA designs are meeting current and future performance goals for payload, range, speed and endurance, while being affordable, and (2) how advanced technology upgrades are enhancing existing FVLA capabilities and reducing cost. Papers are invited that address advances in FVLA design technology in areas such as interdisciplinary design, flight and wind tunnel testing, design cycle time, advanced vehicle technology, methodology for design synthesis, and multidisciplinary design optimization. Papers related to the impact of operational requirements and safety on design issues (and vice versa) are also encouraged.

Topics of particular interest for the conference include:

- How Technology is Improving the Aircraft Design Process
- The Complete FVLA: Analytical / Experimental Prediction Methodology For Design, with Examples
- FVLA Design Concepts (VTOL, V/STOL, ASTOVL, …; even Airships)
- Full Spectrum of Vehicles: Small to Huge; Manned / Unmanned
- Multi Mission or Niche Mission
- Joint Multi-Role (JMR) aircraft
- Joint Future Theater Lift (JFTL) aircraft
- Aeromechanics and Flight Control of Integrated Designs (i.e., addressing interactions of aerodynamics, dynamics, structures, acoustics, handling qualities, …)
- Cost Analysis, Economics, and Market Studies as They Influence Design

Relevant papers from anyone in the FVLA community (industry, Government, academic institutions) are welcome.

Abstract Submittal: Abstracts should be no longer than four pages and should include motivation, approach, key results, and conclusions. The important figures should be included in enough detail to allow an evaluation of the paper's suitability for this conference. Abstracts should be emailed to the Conference's Deputy Technical Chair:

Mr. Chris Silva, csilva@merlin.arc.nasa.gov

no later than **Monday, June 27, 2011**. Papers will be selected by **Monday, August 8, 2011**. Guidance for format of the final papers will be sent with notification of selection.

Completed papers must be submitted electronically no later than **Friday, December 23, 2011.** Papers will be presented in an open forum and should not contain classified or proprietary information. **It is the author's responsibility to obtain all necessary clearances for submittal of abstracts and papers such that each is received no later than its respective due date.**

Questions may be directed to either the General Chair:

Mr. John M. Davis, 650-326-1344 or 650-793-3375
Email: John.M.Davis.us@gmail.com

or to the Technical Chair:

Mr. Bruce S. Tenney, 757-864-7843 or 650-604-5375
US Army Aeroflightdynamics Directorate (AFDD)
Email: Bruce.S.Tenney@us.army.mil

or the Deputy Technical Chair:

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