

1st AIAA CFD High-Lift Prediction Workshop

Sponsored by the Applied Aerodynamics Technical Committee

June 26 – 27, 2010
at the 28th APA Summer Conference, Chicago IL, U.S.A.

HiLiftPW Objectives:

- Assess the numerical prediction capability (meshing, numerics, turbulence modeling, high-performance computing requirements, etc.) of current-generation CFD technology/codes for swept, medium-to-high-aspect ratio wings for landing/take-off (high-lift) configurations.
- Develop practical modeling guidelines for CFD prediction of high-lift flow fields.
- Advance the understanding of high-lift flow physics to enable development of more accurate prediction methods and tools.
- Enhance CFD prediction capability for practical high-lift aerodynamic design and optimization.

General Information

- HiLiftPW is being patterned after the successful Drag Prediction Workshop (DPW). As such, participation in the high-lift prediction studies is not required to attend the workshop; everyone is welcome.
- Open, unbiased forums are included in the workshop to discuss the results and promote cross-pollination of best practices.
- The HiLiftPW-1 test cases are based on the Trapezoidal (Trap) Wing configuration, which was used in a series of NASA Langley 14x22 Ft Wind Tunnel tests in 1998 and 2002. A significant amount of high-quality data is readily available.



HiLiftPW-1 Organizing Committee:

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For more information, visit the HiLiftPW website:
<http://hiliftpw.larc.nasa.gov> or send email to: hiliftpw@gmail.com