AIAA
The World's Forum for Aerospace Leadership

2nd AIAA CFD High-Lift Prediction Workshop
Sponsored by the Applied Aerodynamics Technical Committee

June 2013
at the 31st APA Summer Conference, San Diego CA, 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.
- Determine the elements of high-lift flow physics that are critical for modeling to enable the development of more accurate prediction methods and tools.
- Enhance CFD prediction capability for practical high-lift aerodynamic design and optimization.

General Information

- HiLiftPW is patterned after the Drag Prediction Workshop (DPW) series. 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-2 test cases are based on the European High Lift Programme (EUROLIFT) DLR F11 high-lift configuration. A significant amount of high-quality surface and flow field data are available, including data for an assessment of Reynolds number scale effects.

HiLiftPW-2
Organizing Committee:

Jeffrey Slotnick & Tony Sclafani
The Boeing Company

Mark Chaffin & David Levy
Cessna Aircraft Company

Ralf Rudnik & Kerstin Huber
DLR – German Aerospace Center

Thomas Wayman
Gulfstream Aerospace Corporation

Judi Hannon & Chris Rumsey
NASA Langley Research Center

Carolyn Dear
Pointwise, Inc.

Dimitri Mavriplis & Michael Long
University of Wyoming

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