

3rd AIAA CFD High-Lift Prediction Workshop

Sponsored by the Applied Aerodynamics Technical Committee

June 2017

at the AIAA Aviation and Aeronautics Forum and Exposition
Denver, Colorado, USA

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-3 test cases are based on the Japan Aerospace Exploration Agency (JAXA) Standard Model (JSM) configuration. A significant amount of high-quality surface and flow field data are available, including data for an assessment of nacelle installation effects.

For more information, visit the HiLiftPW website:

<http://hiliftpw.larc.nasa.gov> or send email to: hiliftpw@gmail.com



HiLiftPW-3

Organizing Committee:

Jeffrey Slotnick & Tony Sclafani
The Boeing Company

Mark Chaffin & Ed Feltrop
Textron Aviation

Ralf Rudnik & Kerstin Huber
DLR – German Aerospace Center

Thomas Wayman
Gulfstream Aerospace Corporation

Yasushi Ito & Mitsuhiro Murayama
JAXA – Japan Aerospace Exploration Agency

Thomas Pulliam & Henry Lee
NASA Ames Research Center

Chris Rumsey & Beth Lee-Rausch
NASA Langley Research Center

Carolyn Woerber
Pointwise, Inc.

Dimitri Mavriplis & Michael Long
University of Wyoming