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Presented at the STAR Global Conference 2012.

STAR-CCM+ continues to expand its presence in the aerospace industry due in no small part to excellent accuracy and robustness when applied to problems common to this field.

This presentation shows recent aerodynamic benchmark validations performed using STAR-CCM+. Highlighted will be the American Institute of Aeronautics and Astronautics High-Lift Prediction Workshop case. This case presents some particularly difficult modeling challenges, including complex geometry, turbulence, boundary layer transition, and separation (stall).

Discussions will include problem setup techniques, results, and key capabilities leading to successful benchmarks in this application area.

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