

Workshop Presented by AIAA

Applied-Aerodynamics TC
& Fluid-Dynamics TC

Organized by APA TC
LFC-DG (Discussion Group)

Organizing Committee:

Geza Schrauf (*Airbus, Ret.*)
Paul Vijgen (*Boeing, Ret.*)
Camli Badrya (*UC Davis*)

Key Dates LFC Workshop:

Release Testcases / Data Sets
starting **Sept 2025**

Participants register for LFC
Workshop participation with
Organizers by **3 Oct 2025**

Participants submit results
from Test-Case 1 **by 14 Nov
2025**. All Cases due by **20
March 2026**

Workshop status and initial
results in Invited LFC Special
Session (Joint APA/FD) at
SciTech2026, 6 - 10 Jan 2026

Review Session with
participants (virtual): **Feb 2026
(as needed)**

Workshop Summary and
Analysis Results presented in
Invited LFC Special Session at
**Aviation2026, 8 - 12 June
2026**

Additional LFC testcases under
consideration for possible
follow-on Workshop

AIAA LFC Transition-Prediction Workshop (2025 – 2026)



Workshop Objectives:

- Assess transition-prediction tools for Laminar Flow Control (LFC) using simplified geometries with suction.
- Compare boundary-layer computations and stability methods (such as LST and PSE, as well as data-base approaches) for transition prediction with suction.
- Compare and document results of boundary-layer and stability methods for suction LFC test cases.

Three LFC Test Cases (each with description, detailed input data sets, and analysis instruction):

1. Laminar boundary layer along a flat plate with suction.
2. Infinitely-swept flow with prescribed suction.
3. Conical flow with prescribed suction.

General Information:

- The AIAA LFC Transition-Prediction Workshop is modeled after the AIAA CFD Transition-Modeling and Prediction Workshop.
- AIAA membership is not required to submit results.
- Visit <https://transitionmodeling.larc.nasa.gov/aiaa-lfc-workshop> for further information on the LFC Transition-Prediction Workshop.
- Link to LFC Workshop testcases and input data sets: <https://nasagov.box.com/s/hjkpg6f33fawiqbqutpaw5pft9qwvrkq>.
- LFC Workshop Sessions are planned for SciTech2026 and Aviation2026 with summaries of available results.

For further information and to register as participant contact
organizers at: vijgens@frontier.com and contact@schrauf.de