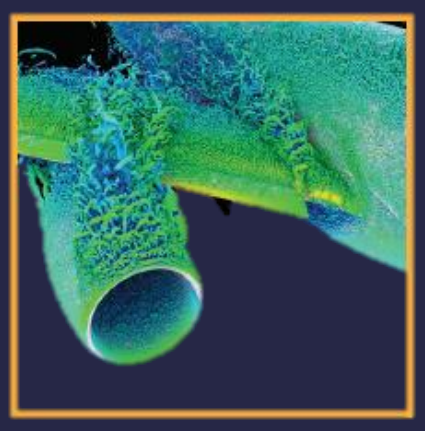

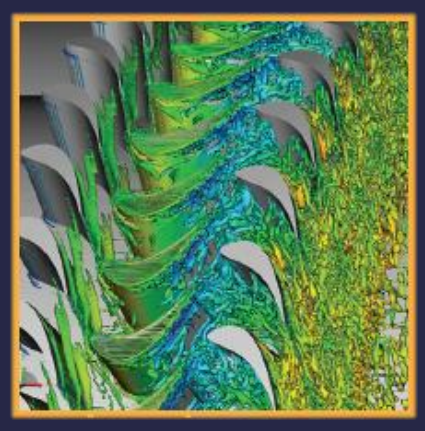

CFD Vision 2030

Integrated Engagement Committee

AIAA SciTech 2027 Activities

Panel Sessions

Tuesday January 12

Wall-Modeled LES of Airfoils: Results of a Working Group

FD-30 / CFD2030-05

9:30-11:30 a.m., Rainbow Spring II

Wednesday January 13

CFD Vision 2030 Future Grand Challenge Workshop Scoping and Development

CFD2030-10 / FD-53 / APA-70 / INPSI-09 / SD-26

3:30-5:30 p.m., Plaza Ballroom I

Thursday January 14

Mutual Accountability and Validation Dialog in Support of CFD Validation: Consolidating What We Have Learned

APA-53 / AMT-42 / CFD2030-07 / FD-45 / GT-22

9:30-11:30 a.m., Bayhill 31

Why Are We Modeling our Wind Tunnels?

GT-18 / APA-90 / CFD2030-14

1:00-3:00 p.m., Bayhill 31

Technical Paper Sessions

Monday January 11

Development of Propulsion-Related Simulations Toward Full Engine Simulation

CFD2030-01

9:30-11:30 a.m., Plaza Ballroom I

Development of AI/ML for CFD Applications I

CFD2030-02

1:00-3:00 p.m., Plaza Ballroom I

Development of AI/ML for CFD Applications II

CFD2030-03

3:30-5:30 p.m., Plaza Ballroom I

Tuesday January 12

NASA's Revolutionary Computational Aerosciences (RCA)

CFD2030-04

9:30-11:30 a.m., Plaza Ballroom I

Wednesday January 13

Special Session: Mutual Accountability and Validation Dialog in Support of CFD Validation: What Lies Ahead

APA-82 / AMT-43 / CFD2030-15 / FD-97 / GT-23

9:30-11:30 a.m., Plaza Ballroom K

Certification by Analysis Challenge Problem I

UQ-08 / CFD2030-06 / APA-50

9:30-11:30 a.m., Bayhill 23

Certification by Analysis Challenge Problem II

UQ-11 / CFD2030-08 / APA-60

1:00-3:00 p.m., Bayhill 23

Certification by Analysis Challenge Problem III

UQ-14 / CFD2030-09 / APA-69

3:30-5:30 p.m., Bayhill 23

Thursday January 14

CFD and HPC of Large-Scale Meshes for Applied Aerodynamics

MVCE-03 / APA-78 / CFD2030-11

9:30-10:30 a.m., Bayhill 32

Simulation Databases for Applied Aerodynamics

CFD2030-12

9:30-10:30 a.m., Plaza Ballroom I

Visualization and Knowledge Extraction for Large CFD Datasets

MVCE-05 / APA-89 / CFD2030-13

9:30-10:30 a.m., Plaza Ballroom I

Friday January 15

Special Session: An Example of Validation Dialog Between Turbulence Modelers and Turbulence Measurers

APA-97 / AMT-44 / CFD2030-16 / FD-98 / GT-24

9:30-10:30 a.m., Plaza Ballroom K