

# AePW-3 Telecon

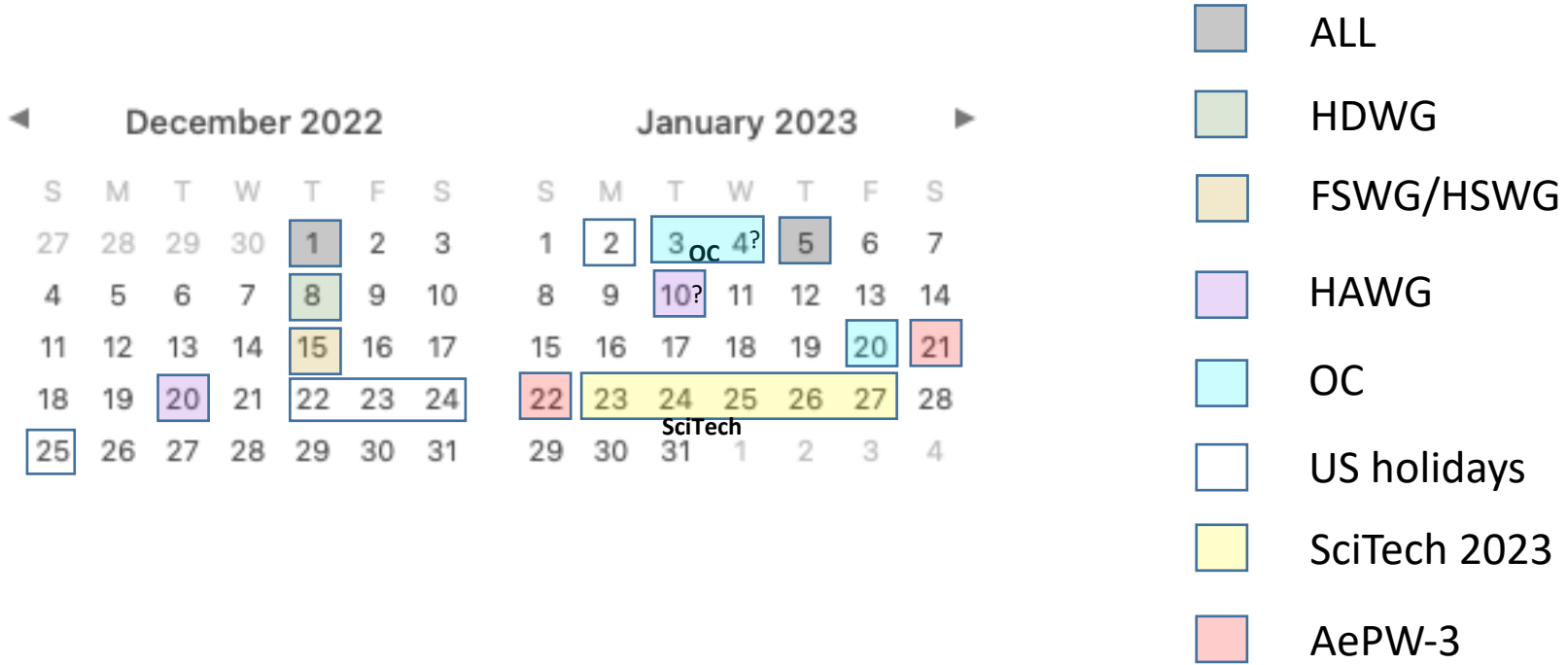
December 1, 2022

(<https://nescacademy.nasa.gov/workshops/AePW3/public>)

# Agenda: December 1, 2022

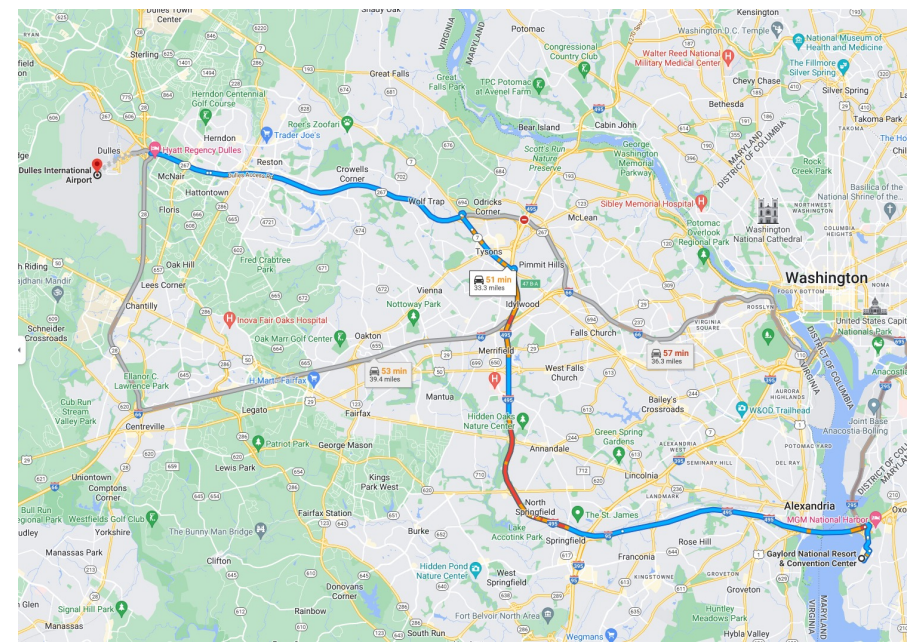
- AePW-3 Schedule: Workshop / SciTech 2023
- Next AePW-3 Telecon: **January 5, 2023**
- **AePW-3 Workshop, January 21 – 22, 2023.**
- Large Deflection Working Group, Markus Ritter
  - Telecons are held on second Thursday each month, 11am EST
- Flight Test Working Group, Jeff Ouellette
  - Telecons are held on third Thursday each month, 11am EST
- High Speed Working Group, Eric Blades
  - Telecons are held on third Thursday each month, 5pm EST
- High Angle Working Group, Pawel Chwalowski
  - Telecons are held on fourth Thursday each month, 11am EST

# AePW-3, December 1



# SciTech 2023: AePW-3 Workshop

AIAA Science and Technology Forum and Exposition (2023 AIAA SciTech Forum)  
23–27 January 2023  
Gaylord National Harbor  
National Harbor, MD



40 to 60 minutes drive time from  
Dulles Airport to National Harbor

- Workshop will take place 51 days from today, January 21-22, 2023.
- Conference and workshop registrations are open:
  - The base workshop registrations fees are set by AIAA as: \$299 early member/\$399 late member/\$499 standard non-member.
  - No student discount registration fee (unfortunately!)
  - It is possible to register for the workshop only.
- Workshop format:
  - All four working groups will present results in the same room.
  - Time allocation for presentations will depend on number of teams participating in workshop.
  - Each working group session will have an introductory presentation and a final presentation with results.
- **Virtual access: AIAA will provide TEAMS access. AIAA recommends against virtual participation because of the organizational and technical issues based on past workshops. Workshop fee/registration is still required to participate virtually.**
- **We will have a breakout room available for side discussions.**
- Joint Publications at SciTech 2024.
- We will consider a special AIAA Journal publication with AePW-3 results.

# Preliminary

7:00	Registration	
7:00 – 8:00	Breakfast	
8:00	01	Welcome / Overview
8:30	02	Walt Silva: Importance of Benchmark Experiments
9:00	03	High Angle WG Overview / Experimental Data
9:30	Break, 15 minutes	
9:45	04	BSCW Flutter: 2 hours / 6 presentations / 15 minutes each + summary
11:45	Lunch, 1.25 hours	
13:00	05	BSCW Shock Buffet: 2 hours / 5 presentations + summary
15:00	Break, 15 minutes	
15:15	06	Flight Test WG Overview / Flight Data
15:30	07	1 hour / 4 presentations / 15 minutes each / summary discussion
16:30	Adjourn	

# Preliminary

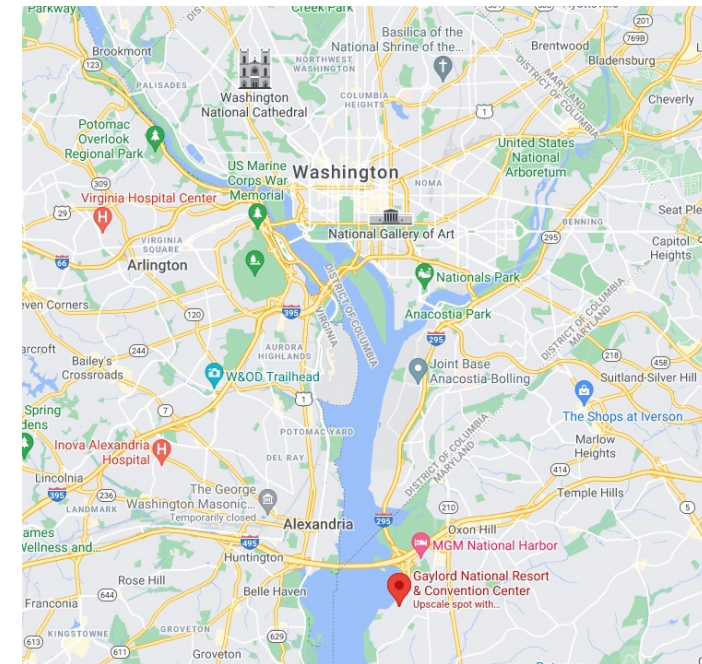
7:00	Registration	
7:00 – 8:00	Breakfast	
8:00	08	Welcome / Overview
8:15	09	High Deflection WG Overview / Experimental Data
8:45	10	1 hour / 4 presentations / 15 minutes each
9:45	Break, 15 minutes	
10:00	11	1.5 hours / 6 presentations / 15 minutes each + summary
11:30	Lunch, 1.25 hours	
12:45	12	High Speed WG Overview / Experimental Data
13:15	13	Hymax: 1.5 hours / 6 presentations / 15 minutes each
14:45	Break, 15 minutes	
15:00	14	RC19: 1.5 hours / 6 presentations / 15 minutes each + summary
16:30	Break, 15 minutes	
16:45	15	Future Direction for AePW / General Discussion
18:30	Adjourn	

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## AIAA advertisement statement:

The third Aeroelastic Prediction Workshop (AePW-3) will be held in conjunction with the 2023 AIAA SciTech conference. The workshop is an open and impartial forum meant to assess and evaluate the current state-of-the-art and state-of-the-practice in computational aeroelastic modeling. The workshop is aimed at understanding the effectiveness of current tools towards predicting aeroelastic phenomena critical for aircraft analysis and design, and also identifying computational and experimental areas of research needing further development. In order to better reflect the diverse needs and backgrounds across the aeroelastic community, the workshop has been broken into four working groups: the High-Angle working group (HAWG: focused on transonic buffet and flutter phenomena); the Flight-Test working group (FTWG: focused on flutter mechanisms involving rigid body motions); the Large-Deformation working group (LDWG: focused on slender wings undergoing large nonlinear structural deformations); and the High-Speed working group (HSWG: focused on supersonic flow over flexible panels and plates). Research from each of these working groups will be presented at the workshop, followed by a detailed discussion and interpretation of the results. Re-analysis and future workshop plans will also be discussed. The AePW-3 is sponsored by the AIAA Structural Dynamics Technical Committee.