

Flow Control Technical Working Group Initiative

Building a framework to transition flow control into aircraft design

Marlyn Andino, LaTunia Melton, Luther Jenkins

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NASA Acoustics Technical Working Group, Est. ~ 1994

- Meets bi-annually: Spring and Fall

2-day meeting originally, hybrid – now 3rd day UAM focus

Participants from: Industry, Government, and Academia

Keynote speakers

Sub-group updates

Program updates

Work-in progress

Student presentations

- Sub-groups

Monthly meetings

- 5-year document

Community perspective on research direction/gaps

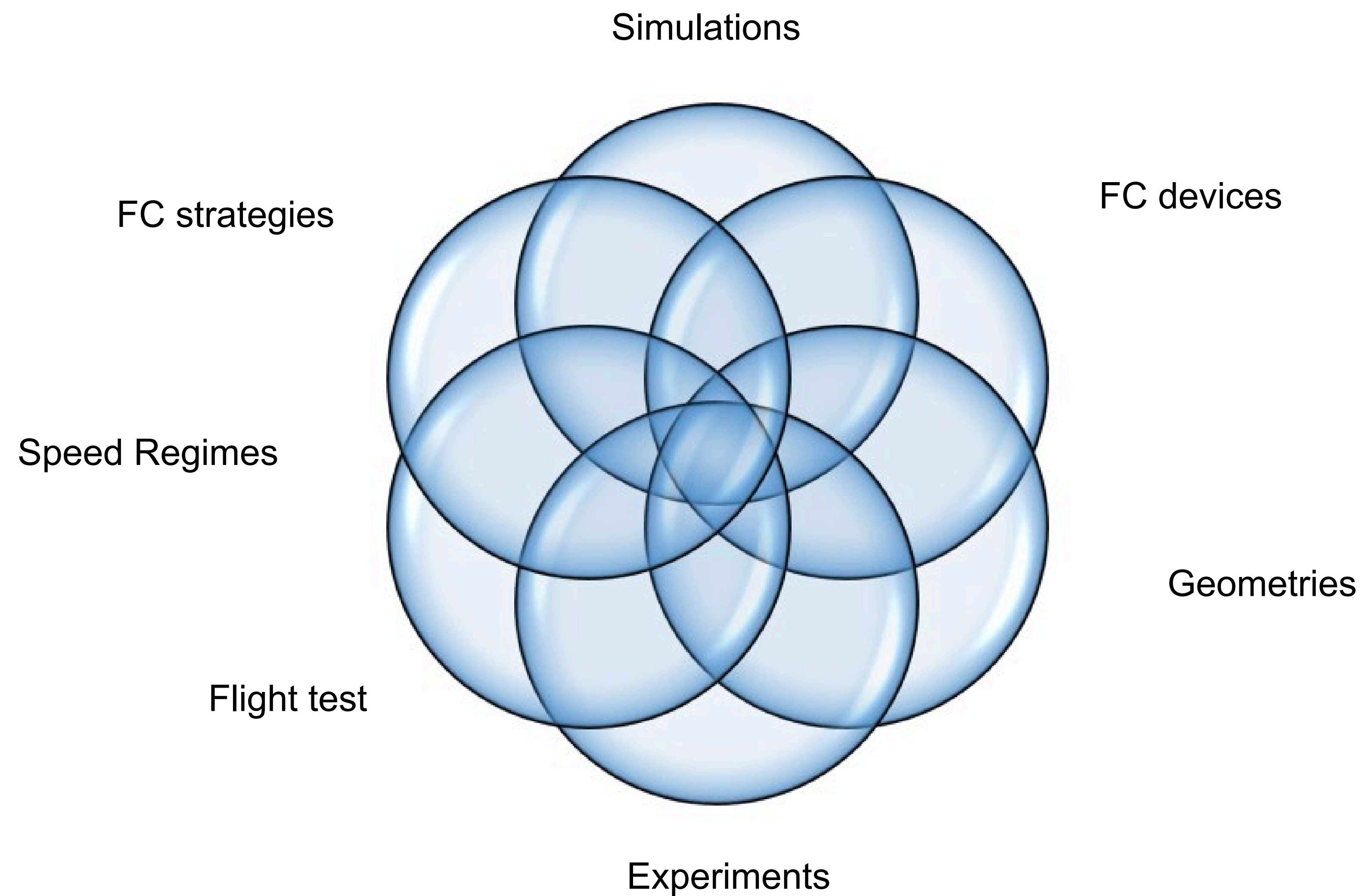
Best practices and recommendations

- Special workshops



Flow Control Technical Working Group

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Flow Control Technical Working Group

- **Purpose**

Bring together aerodynamicists and flow control experts, designers and tool developers and customers
Academia, Industry, and Government experts

- **Scope**

Develop a roadmap for the development of FC design and scaling tools for aircraft design
Create database for use by the FC community

- **Importance**

Provide research recommendations and best practices.
(i.e., CFD2030)

- **Approach**

Establish subgroups

Evaluation/Standard Parameters

Multidisciplinary Analysis and Optimization Concepts

Transition into design

Flow Control Technical Working Group

DARPA X65: Control of Revolutionary Aircraft with Novel Effectors (CRANE) program



[Image Credit: DARPA]

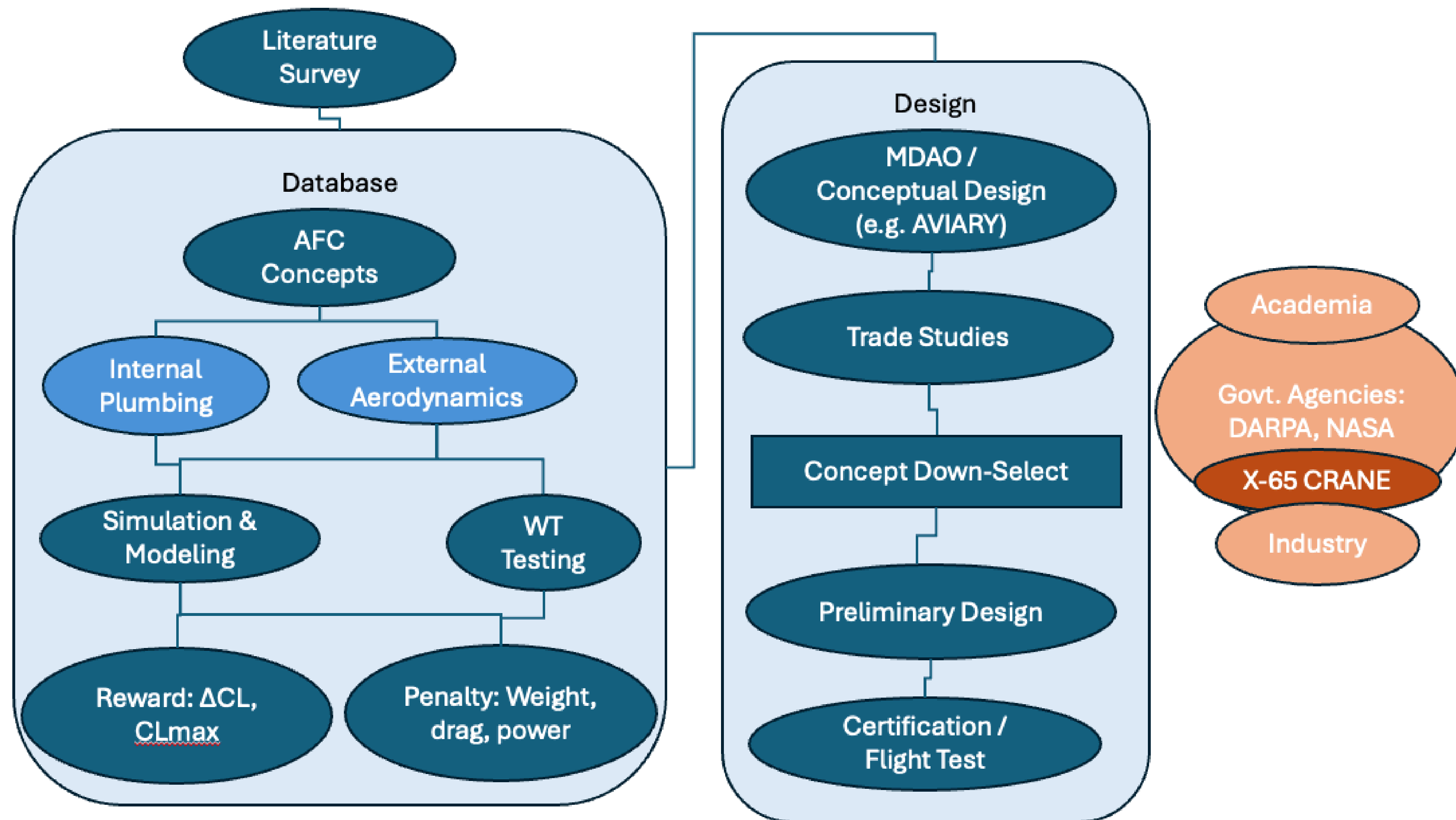


a new, open-source software tool for modeling and optimizing next-generation aircraft designs



Funded by
NASA Transformational Tools and Technologies Project

FCTWVG: Notional framework for transitioning FC into aircraft design



Flow Control Technical Working Group

- **Upcoming Fall in-person Meeting**
NASA Langley Research Center
- **Welcome Feedback or comments:**
Marlyn.Y.Andino@nasa.gov

