Green Aeropropulsion Technologies for Future Aircraft Generations

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Date: Friday, April 22, 2016
Time: 9:00 – 10:00 AM
Location: 358 Willard Blg.

Coffee and donuts will be provided

Abstract:

This presentation describes current aeropropulsion research in the NASA Aeronautics Advanced Air Transport Technology (AATT) Project aimed at future generations of commercial aircraft. The research addresses the AATT Project’s objectives of delivering revolutionary improvements in the energy efficiency and environmental impact of commercial air transportation, with a primary focus on “N+3” generation aircraft that are three generations beyond the current state of the art, N. The research is also aligned with the strategic thrusts of developing ultra-efficient commercial vehicles and enabling a transition to low-carbon propulsion that are embodied in the recently unveiled vision for NASA Aeronautics to enable safe and sustainable continued growth in the global aviation system.

Bio:

Nateri Madavan currently serves as the Associate Project Manager for Technology for the Advanced Air Transport Technology Project in NASA’s Advanced Air Vehicles Program and helps manage the Project’s research portfolio to enable revolutionary improvements in the energy efficiency and environmental compatibility of future generations of aircraft. He is based at NASA Ames Research Center where he is a member of the Computational Aerosciences Branch in the NASA Advanced Supercomputing Division. Dr. Madavan is the recipient of various NASA awards, including the NASA Outstanding Leadership Medal. He obtained his BS degree from the Indian Institute of Technology, MS from Iowa State, and PhD from Penn State, all in Mechanical Engineering, and is an Associate Fellow of the AIAA.