

The Next Aeronautics Revolution- Advanced Air Mobility

Date & Time: August 25th, 2022, 7:00-8:00 pm EST

Registration (Free): https://aiaa.zoom.us/webinar/register/WN_mXakenBQsqYo9lsuM7BIg

The AIAA New England Section is organizing an expert webinar session. Come and listen to Vanessa Aubuchon on the third wave of Aeronautics- Advanced Air Mobility.

Imagine going home from work in a pilotless aircraft that takes off vertically from a building roof-top and transitions to forward flight to carry you out of the city to a landing pad in the suburbs. When you get home, you're too tired to cook dinner, so you order your favorite Thai food from a restaurant three miles away and it lands in your driveway fresh and hot. Later that night, you get a stomachache and order some antacids from the pharmacy down the street, which is delivered via a drone to your home in a matter of minutes. Can you imagine a world of convenience and efficiency that is enabled by ubiquitous, autonomous air transportation? We are in the middle of an aeronautics revolution right now, where those scenarios are becoming a reality. This talk will discuss the "Third Wave of Aeronautics," which is bringing aviation to people's daily lives. NASA, alongside industry and the FAA, is developing the technologies and safety standards to enable faster local commutes, widespread package delivery, cost-effective cargo transportation to rural areas, and more routine connections between regional airports. Advanced Air Mobility targets safe, sustainable, affordable, and accessible aviation that will transform the world's transportation systems. Current manufacturer progress, new enabling technologies, and challenges to realizing this new paradigm will be described.



Vanessa Aubuchon
NASA Langley Research
Centre

**Revolutionary Aviation
Mobility Sub-Project
Manager**

Vanessa Aubuchon has conducted research, guided development activities, and managed various aspects of projects and programs at NASA for over 18 years. She has an unfettered vigor for learning and development, solving problems, and improving processes. Thus, her career has been filled with experiences spanning space exploration to aviation, in multiple NASA organizations, including headquarters, in positions of researcher, project manager, systems engineer, and branch head. Currently, she manages the Revolutionary Aviation Mobility Sub-Project in the Transformational Tools and Technologies Project.

Vanessa holds a Bachelor's degree from Mississippi State University and a Master's degree from Virginia Tech. She is pursuing a PhD in engineering Management from Old Dominion University. She has been the recipient of the NASA Aeronautics Research Mission Directorate Associate Administrator Award for Leadership and Management Excellence, AIAA Hampton Roads Section Mitcheltree Young Engineer of the Year Award, Orion Exceptional Contribution Award, and multiple NASA group awards.

She serves as AIAA Hampton Roads Section Council Member, AIAA Region I Deputy Director for Technical and Career and Professional Development, among several other roles on boards and committees. Vanessa is also a mother of two young boys and enjoys volunteering at local STEM events and with BSA Troop 28.