

## **Edward Johnson, Ph.D.**

### **Chief Scientist and Technical Advisor for Wake Turbulence**



Dr. Edward Johnson is the FAA's Chief Scientist and Technical Advisor (CSTA) for Wake Turbulence, with over 17 years experience in the field. He provides scientific guidance to FAA senior leadership to define and advance new wake turbulence research and proposed flight operations in order to establish new operational standards that promote safe operation of aircraft. Dr. Johnson serves as technical interface for wake turbulence issues for both domestic and international agencies and industry partners, including professional and academic organizations.

Prior to becoming the CSTA for Wake Turbulence, he was employed by both the FAA and NASA to provide technical and programmatic support for the planning and execution of wake turbulence research programs. He provided technical leadership and monitored research performed by external organizations, including national laboratories, university research teams, support service contractors, and internal research staff. His research projects include evaluation of probabilistic real-time wake vortex models, categorization of unmanned aircraft systems for wake turbulence purposes, and evaluation of potential wake turbulence mitigations in terminal and en route airspace. He is an instrument rated private pilot. Dr. Johnson earned a B.S. in Physics from Concord College and an M.S. in Physics from West Virginia University. He earned his Ph.D. in Mechanical and Aerospace Engineering from West Virginia University.