

Dean's Colloquium

Dr. William B. Moore

HU Endowed Professor and HU Professor in Residence at National Institute of Aerospace



Department of Atmospheric and Planetary Sciences, Hampton University

When: Wednesday, February 22nd, 2023

Where: Turner 129

Time: 3:00 – 3:20 pm, Q&A: 10 min

Title: Severe Weather Research and Applications to Forecasting, UAS Operations, and Wind Energy

Abstract: Weather information and forecasting has become a vital element of business intelligence across a wide range of industries. Hampton University's Severe Weather Research Laboratory (SWRL) combines state of the art data processing algorithms with an array of real-time atmospheric measurement technologies to produce highly accurate short-term forecasts of weather for the continental United States. Applications for these forecasts include Unmanned Aerial Systems operations, wind energy planning, construction and operations, and emergency management. With a large number of instruments operating from campus, there are numerous opportunities for students from across the School of Science as well as Engineering to participate in measurement campaigns and follow-on data analysis.

Bio: Dr. William B. Moore, Hampton University Endowed Professor in the Atmospheric and Planetary Science Department, is internationally recognized for his expertise in planetary thermal and tidal dynamics. His research looks outward to our planetary neighbors to illuminate this planet's deep past and understand what made the Earth such an interesting and dynamic place, and, of course, the only living planet. He has participated in spacecraft missions to Venus (Magellan) and Jupiter (Galileo and ESA's upcoming JUICE mission) and is the co-founder of the Hampton University Severe Weather Research Laboratory (SWRL).