



The AIAA Northern Ohio Section / Ohio Aerospace Institute

## ***Distinguished Lecture Series Presents***

**“Quiet Supersonic Technology (QueSST) X-Plane Wind Tunnel Testing”**

**Mr. Raymond Castner**

**Wednesday, November 14, 2018 at 6:00 pm**

Ohio Aerospace Institute  
22800 Cedar Point Road  
Cleveland, OH 44142

**COMPLIMENTARY** APPETIZERS WILL BE SERVED

5:30 – 6:00 Social

6:00 – 7:00 Lecture

*Please register for this free lecture at  
[www.oai.org/events](http://www.oai.org/events)*

### **Abstract:**

Currently passengers can only dream of supersonic flight, a key element of NASA research. The Quiet Supersonic Technology (QueSST) vehicle will provide key data for future quiet supersonic flight over land. In 2017, a model of the QueSST concept was tested in the NASA 8- by 6-foot Supersonic Wind Tunnel. The first flight test is planned for summer of 2021. The lecture will cover a description of the sonic boom problem, the 8x6 wind tunnel history, the QueSST wind tunnel model installation, and key test results. Mr. Castner will be providing a behind-the-scenes glimpse of a large wind tunnel test at one of NASA's historical facilities.



### **Background:**

Ray Castner is an Aerospace Engineer in the Inlets and Nozzles Branch at the NASA Glenn Research Center located in Cleveland Ohio. Ray currently serves the Low Boom Flight Demonstration Project as the NASA propulsion team leader. He guides researchers, engineers and technicians to analyze and test key engine integration challenges for the Quiet Supersonic Technology (QueSST) vehicle. Ray started at NASA Glenn in 1990 as a test engineer reducing jet noise at the Aero-Acoustic Propulsion Lab, and has also collected performance data on jet engines at the Propulsion Systems Lab. He has also been an active AIAA member and has served on the Ground Test Technical Committee (GTTC).

