

SE&T Colloquium Series-Fall 2015

Speakers	Drs. Jack Henderson and Peter Torvik Universal Technology Corporation Host: Dr. Tom Kullgren
Title	<i>Control of Vibrations in Gas Turbines</i>
Abstract	<p>The presenters each have over 30 years of research and teaching service in the USAF Materials Laboratory and the Air Force Institute of Technology at Wright-Patterson Air Force Base, Ohio. Following retirement from civil service, they joined Universal Technology Corporation in research staff and consulting roles dealing with damping of turbine blade vibrations using coatings.</p> <p>The presentation will begin with fundamental gas turbine technology and historical methods of vibration control. Damping by free-layer additions and the related materials used will be followed by test results which extract material properties. Examples of materials tested will be rare earths, metallics, and ceramics along with various additives such as viscoelastic materials. Materials for application at intermediate and high temperature applications will also be discussed.</p>
Date	Tuesday, September 15
Time	4:10-5:00pm
Place	Pioneer 240
	Refreshments will be served at 4:00pm.