



AIAA

**American Institute of
Aeronautics and Astronautics
Dayton-Cincinnati Section**

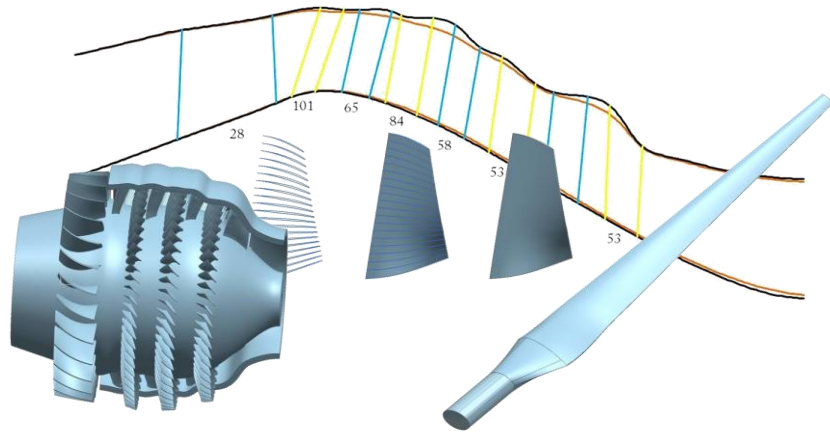
Lunch 'n' Learn

Guest Speaker:

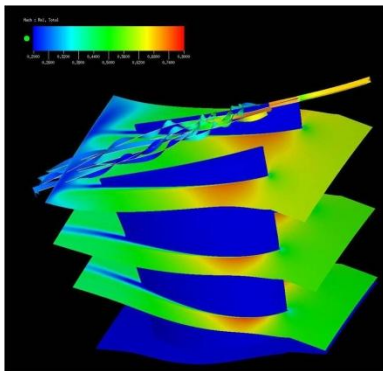
Dr. Mark Turner

**Co-Director, Gas Turbine
Simulation Laboratory,
University of Cincinnati**

**Friday, 21 October
2011**



Optimization strategies for compressor and turbine design will be presented. A genetic algorithm is used for the optimizer, and both weight and efficiency make up the multi-objective function that is optimized. Parametric design in 2D is demonstrated for a novel compressor booster and a 3D parametric design process is described.



Dr. Mark Turner is currently an Associate Professor in the School of Aerospace Systems at the University of Cincinnati where he co-directs the Gas Turbine Simulation Laboratory, a computational research facility with over 1000 available processors and tasks ranging from design and analysis thru high-fidelity CFD.

Time

11:45 AM

Location

**China Garden Buffet
112 Woodman Dr.
Dayton, OH 45431**

Lunch

**You will be able to
purchase the buffet**

