

## ARC Seminar

# Jet Fuel – It's Not Just for Planes!



### **Dr. Tim Edwards**

Senior Chemical Engineer

Fuels Branch – Air Force Research Laboratory

Friday 27 March 2015

9:15am – 11:00am

Location: 2000A Phoenix Memorial Laboratory

(Networking opportunity to follow)

### Seminar Abstract:

Jet fuel is traditionally thought of as the fuel for aviation gas turbine engines. But it is commonly used in diesel engines and power generation in remote locations. Recently, interest in general aviation diesel engines has increased due to their low fuel consumption and ability to use unleaded fuel. Alternative aviation fuels from a number of processes and feedstocks have been evaluated in a variety of engines – this presentation will summarize the status of these fuels and their composition and performance. The alternative jet fuel approval process will also be reviewed.

### Bio:

Dr. Tim Edwards is a Senior Chemical Engineer in the Fuels Branch in the Air Force Research Laboratory's Aerospace Systems Directorate/Turbine Engine Division. He has 30+ years of experience in research in fuels and propellants, working at both of the Directorate's propulsion sites at Edwards Air Force Base (no relation) and Wright-Patterson Air Force Base (WPAFB). His interests include properties and applications of hydrocarbon fuels in support of advanced propulsion programs. Dr. Edwards assists in coordinating the on-site fuels research occurring at WPAFB. Recently he has become involved in the evaluation of alternative (non-petroleum) fuels for the DoD, taking him back to his grad school Ph.D work at the University of California/Berkeley on coal liquefaction.