**Fuels Research, Why and What**

*Dr. Bruce Bunting*

Distinguished Scientist, Oak Ridge National Laboratory

Fuels, Engines, and Emissions Research Center

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ORNL is one of several DOE National Laboratories conducting research in advanced engines, combustion, fuel effects, and new biofuels. DOE funds this research to develop and promote new technology that supports government objectives in energy efficiency, energy independence, and energy affordability. This research spans a very broad spectrum of areas. In this talk, I will provide some background, focus on a typical ORNL-style fuels research project for biofuels, and discuss fuel distribution and how new fuels might fit into our current infrastructure. Market opportunities for new fuels depend on volume, infrastructure compatibility, and how the fuel or component is intended to be used.