



6<sup>th</sup> International Symposium on  
**E**nergy **C**hallenges & **M**echanics  
- towards a big picture

14-18 August 2016  
Inverness, Scotland, UK

### **Speaker of Session 01**

#### **ENERGY EFFICIENCY**



Gale Boyd is an Associate Research Professor in the Social Science Research Institute at Duke University. He has a BS in mathematics and a PhD in Economics. He is the Director of the Triangle Research Data Center (TRDC), a partnership between Duke University and the U.S. Bureau of Census. The TRDC is one of 24 locations in the country where research on confidential micro-data collected by the U.S. Federal Statistical System may be conducted. Dr. Boyd has over 25 years of experience working with this confidential data. Prior to joining Duke University, Gale was an economist and section leader of the Social Science, Policy and Law Section at Argonne National Laboratory. His work has ranged from energy/environmental integrated assessments, industrial energy and emission trends, and various economic modeling studies in the field of energy/environmental economics. He has developed/applied Divisia, Fisher, and Malmquist index

number decomposition approaches to energy trends. His current work applies both parametric (stochastic frontier) and non-parametric (data envelopment) analysis using confidential establishment data to measure and assess inter-plant differences in energy, environmental, and total factor productivity in manufacturing. His research preparing statistical benchmarks of energy performance in manufacturing plants, called the Energy Star Energy Performance Indicators, is funded by the EPA Energy Star Industrial sector voluntary program.

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