

Thermoelectric Conversion of Waste Heat to Electricity in an IC Engine Powered Vehicle

Presented by:

Harold Schock

Dept. of Mechanical Engineering

Michigan State University

8/21/2006

Supported By:

US Department of Energy

Energy Efficiency Renewable Energy (EERE)

**Waste Heat Recovery and Utilization Research and Development
for Passenger Vehicle and Light/Heavy Duty Truck Applications**

**IOWA STATE
UNIVERSITY**



**MICHIGAN STATE
UNIVERSITY**



**TELLUREX
CORPORATION**

What's Required to Achieve a 10% Improvement in Efficiency with TEGs?

- Application is an OTR truck
- Realistic cruise condition simulation shown
- Heat transfer options and implications
- How does one find the optimum TE material for a given application?
- Discuss these and other issues related to powder processing and power electronics at booth **P18**