

OAK RIDGE NATIONAL LABORATORY

Join us on Monday, November 1, 2004, for a brown bag luncheon sponsored by Oak Ridge National Laboratory. This is part of a series of noon presentations held at ORNL's Washington offices. Topics focus on new and innovative energy efficiency and renewable energy analyses and technologies. Joel Eisenberg and Patti Garland co-chair the series. Please RSVP to Linda Hackett hackettlk@ornl.gov or call 865-574-5204 by Friday, October 22, 2004.

A "Brown Bag" Luncheon Series

Novel Sensor Technologies Improving Energy Performance

Presented by Jim Hardy, Oak Ridge National Laboratory
12:00 noon–1:00 pm, The Aerospace Building, Conference Room A/B
901 D Street, SW, Ninth Floor, Washington, D.C.

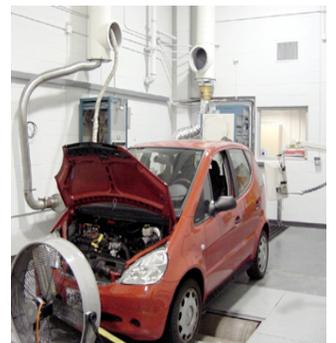
Oak Ridge National Laboratory's research and development of sensors and controls technologies enables U.S. industry to achieve greater energy efficiency and to minimize waste. The DOE has built significant resources at ORNL including 200 multidisciplinary researchers that are involved in all aspects of sensors and controls systems, including sensor development, low-power electronics, photonics, wireless sensors and networks, image and signal processing, material synthesis, and advanced controls.



ORNL is helping improve industrial systems through R&D, advanced engineering, development of new measurements, and integration of sensor and control systems. ORNL has earned 50 R&D 100 awards for measurement systems, more than any other organization in the country. It leads the nation in cooperative research agreements with industry and has won several national technology transfer awards. Numerous companies are using ORNL-developed technologies in their products and more than 20 companies have been created based on ORNL sensors and controls technologies.

Sensor technologies have and are impacting all energy resource and efficiency fields. These will be illustrated by describing recent breakthroughs in:

- Sensors for harsh environments (temperature, flow, NO_x, and exhaust gas)
- Advanced electronics for very low power applications
- Wireless sensors and secure, robust networks
- Inspection and diagnostics



The capabilities of ORNL's new "Extreme Environment Communications Center" will also be discussed.

901 D Street, SW (The Aerospace Building) is located one block south of the Forrestal Building, off L'Enfant Promenade, in downtown Washington. **(You must use the D Street entrance due to enhanced security.)**

For more information, please contact Linda Hackett at 865-574-5204 or hackettlk@ornl.gov.



