Industrial and Economic Development Partnerships at ORNL

Presented to Energy Alliance Communities

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August 20, 2009
Today, ORNL is DOE’s largest science and energy laboratory

- $1.4B budget
- 4,450 employees
- 3,900 research guests annually
- $350 million invested in modernization
ORNL is uniquely positioned to deliver science and technology for energy

We have an extraordinary set of assets

- Outstanding tools for materials R&D
- Nation’s most powerful system for open scientific computing
- Bioenergy Science Center
- The nation’s broadest portfolio of energy programs
- Unique resources for nuclear technology
- Robust national security programs

Our challenge: Use these assets to deliver results that are significant on both the national and the international scale
Putting the world’s best tools for neutron scattering to work

Spallation Neutron Source: World’s most powerful accelerator-based neutron source

High Flux Isotope Reactor: Complementary capabilities and a new cold neutron source

UT-ORNL Joint Institute for Neutron Sciences: User gateway for SNS and HFIR

Ready to welcome thousands of researchers each year
The Goal of Partnerships Directorate is to Help Move Basic Research to the Marketplace

Today's Focus:
• Industrial Partnerships
• Economic Development
Industrial Partnerships

Our Approach:
• Proactive outreach to US companies
• Start with customer’s priorities
• Focus on lab’s unique research capabilities
• Goal: To increase America’s competitiveness
We connect Industry to ORNL in a variety of ways

- Lockheed Martin - researchers are working projects that relate to Networks, Thermal Energy Conversion, Cyber Security, Software Tools, and Materials.
  - 7 Projects funded - $2.4M
  - Agreement with a ceiling of $9.15M through Sept 30, 2014

- Emerson Electric has three divisions in discussion with ORNL: Heating Products, Climate Technologies and Network Power Divisions. They are leasing space in the S&T Park.

- 3M is interested in materials in the areas of Batteries, Wind Generation, Two-Photon Nanofabrication, and Low Cost Nanocomposite Resins
Other ways Industry can connect to ORNL

• From connecting companies to our 11 user facilities . . .

• To providing pathways to sponsored research and licensing
  • 128 active technology licenses
  • 304 organizations entered into new research agreements in FY08
    • 170 new Work for Others
    • 120 new User Agreements
    • 14 new CRADA Agreements
  • 8 new R&D 100 Awards in 2009 bringing total to 148
Economic Development Initiatives
Oak Ridge Science and Technology Park

- First Research Park on the campus of a national laboratory
- Focused on leveraging ORNL assets and relationships to forge new collaborations with private sector companies
- Supports DOE’s technology transfer mission
Innovation Valley: Capitalizing on regional technology assets

- Technology and Entrepreneurship finally recognized as core elements of the region’s economic development strategy

- Implementing a technology strategy (prepared by Battelle Technology Partner Practice)
Entrepreneurial Support:

IP + Capital + Management Expertise = Success

From licensing technologies . . .

To helping secure capital . . .

To funding services for success . . .
Nuclear Energy Coalition

• Develop and expand the Nuclear Industry Cluster in the Tennessee Valley Corridor
• Evaluate and promote Ultra Heavy Forging Capability in the Valley
• Promote the development and testing of Small Power Reactors
ORNL Goes Global!

Save the Date
March 24-26, 2010
Oak Ridge National Laboratory Presents
GlobalVenture Challenge™ 2010
...seeking innovative solutions for the world’s energy needs

TRACK 1:
Advanced Materials for a Sustainable Energy Future
Advancing technologies to save energy and money, increase productivity, and reduce environmental impacts

TOPIC AREAS:
- Advanced Materials
- Nanomanufacturing
- Separations Technologies
- Alternative Fuels & Feedstocks
- Wireless Sensors
- Energy Storage and Production (Batteries, Ultracapacitors, Photovoltaics, Light Emitting Materials)
- Unique Processes to Increase Industrial Energy Efficiency

Sponsored by:
U.S. DEPARTMENT OF ENERGY

TRACK 2:
Community Resilience and Homeland Security
Enhancing the ability of communities to recover rapidly from natural and man-made disasters

TOPIC AREAS:
- Hurricane and Flood Prevention
- Cyber Security
- Disaster Incident Management
- Critical Infrastructure and Key Resources Protection, Mitigation and Recovery
- Small Business Continuity and Recovery
- Communicating with Special Needs and Disadvantaged Populations
- Resilient Housing and Rapid Housing Restoration
- Community Recovery Planning

Sponsored by:
Community & Regional Resilience Institute

ORNL Goes Global!
Steps in Partnerships between labs and communities

1. Get engaged! Meet together as often as possible.

2. Share priorities for economic development, and for governmental agendas, both State and Federal.

3. Actively look for opportunities to support one another.
What do laboratories need from communities?

1. A healthy, attractive community in which employees want to work, live and play
2. Great public schools!
3. A shared vision for the future
Join Us in Helping Move ORNL’s Research to the Marketplace!

For More Information:

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