



DOE Lab/University Collaboration *An ORNL Case Study*

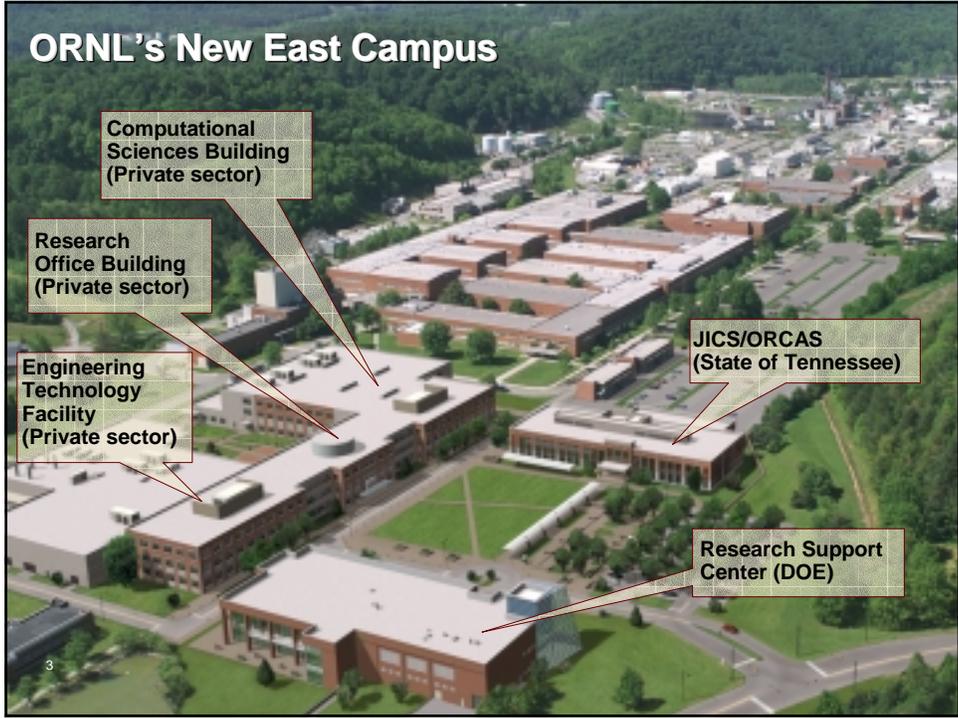


*Jim Reafsnyder
DOE Oak Ridge Office
November 1, 2004*

ORNL is DOE's largest multipurpose science laboratory

- \$1.06 billion budget
- 3,900 employees
- 3,000 research guests annually
- Nation's largest unclassified scientific computing facility
- Nation's largest science facility: the \$1.4B Spallation Neutron Source
- Nation's largest concentration of open source materials research
- Nation's largest energy laboratory
- \$300 million modernization in progress





An ORNL Case Study

Major ORNL/University Interactions

- Research Participation Program
- Joint Institutes
- Joint Faculty Agreements
- User Facilities
- Contracted Work



Joint Institute for Computational Sciences

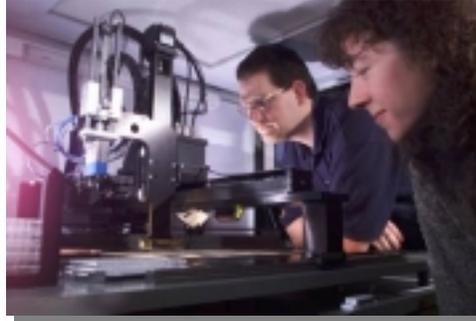


4

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What works well?

- **Research Participants**
 - 524 students and faculty; 186 U.S. universities; 39 states & foreign – *Efforts managed by ORAU*
- **Joint Institutes** – 3 funded by State of Tennessee
- **Joint Faculty Agreements** – 28; five universities



University Partnerships



5

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What works well?

- **User Facilities**
 - Spallation Neutron Source
~100 universities on Instrument Development Teams
 - 17 Other User Facilities – 141 active agreements with universities

Spallation Neutron Source



DOE's first Nanoscale Science Research Center, being constructed adjacent to SNS



6

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What works well?

- University Contracted Work
 - 79 active contracts
 - 35 universities



Laboratory for
Comparative and
Functional
Genomics



7

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Barriers to Effective Contracting

DOE Contract Provisions

- Indemnification
- Advance Funding
- Intellectual Property Rights
- Full Cost Recovery

Federal Agency Flowdown Provisions



8

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Solutions Implemented

Joint Faculty Agreements

- Waived Lab and University Overheads
- Intellectual Property vests with Employer – negotiate royalty sharing

9



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Solutions Implemented

University Contracting with Labs

- Model Contract with State Entities
 - DOE covers Advance Funding for Exempt States
 - Indemnification to extent permitted by State laws

10



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What doesn't work well?

- Indemnification
- Advance funding
- Flowdown provisions from other Federal Agencies

11



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Possible Solutions

- DOE lab and university leaders resolve advance funding, full cost recovery and intellectual property issues
- Interagency Working Group to address Federal agency flowdown provisions

12



ORNL



13

