

ORAU – Value through Partnerships

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Vice President, University Partnerships

Oak Ridge Associated Universities

Florida Atlantic University Visit

February 2, 2011

Performance

Quality

Integrity

Partnerships for Innovation

ORAU
OAK RIDGE ASSOCIATED UNIVERSITIES

Oak Ridge Associated Universities is a . . .

. . . University consortium focused on advancing scientific research and education through partnerships

. . . Partner with UT-Battelle to expand university collaboration with Oak Ridge National Laboratory

. . . Federal contractor managing the Oak Ridge Institute for Science and Education for DOE (ORISE)

1,200 employees
Annual expenditures of more than \$300 million



ORAU Member Institutions



OAK RIDGE NATIONAL LABORATORY UT-BATTELLE



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ORAU university partnership agenda is focused on ORNL science agenda

- Leverage partnership with UT-Battelle
 - Help ORNL build mutually beneficial university partnerships
 - Be a strong partner in advancing ORNL's science agenda—new facilities
- Strengthen university leadership in key science initiatives
 - Primary foci of interest: Neutrons, Computational Science, Climate Change
- Embrace academic institutions that share our goals and objectives as new partner institutions
 - Domestic and international



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University Partnerships Office (UPO) facilitates interactions

- Collaborative Research: ORNL, Y-12, and multi-university
- Awards to ORAU Institutions
 - Ralph E. Powe Awards to junior faculty
 - HBCU/MEI Faculty Summer Research Program
 - Competitive Travel and Event awards
 - Assistance with technology transfer into ORAU programs
- Education
 - Summer Graduate Course – Neutrons in Biology
 - Graduate Student Fair - August 11, 2010

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Powe Junior Faculty Award Grants

- Early career faculty -Competitive Selection
- 30 awards @ \$5K ORAU, \$5K university match
- Florida Atlantic University Nominees in 2003, 2004, 2007, and 2008
- 2011 process in progress – decisions in May

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ORNL/ORAU HBCU/MEI Summer Faculty

- Faculty summer collaboration at ORNL
- Stipend and expenses paid
- Approximately 10 awards each summer



- Two FY 2010 awards to ORAU partner Institutions
 - Dr. Dafeng Hui, Tennessee State University
 - Dr. Ju Wang, Virginia State University

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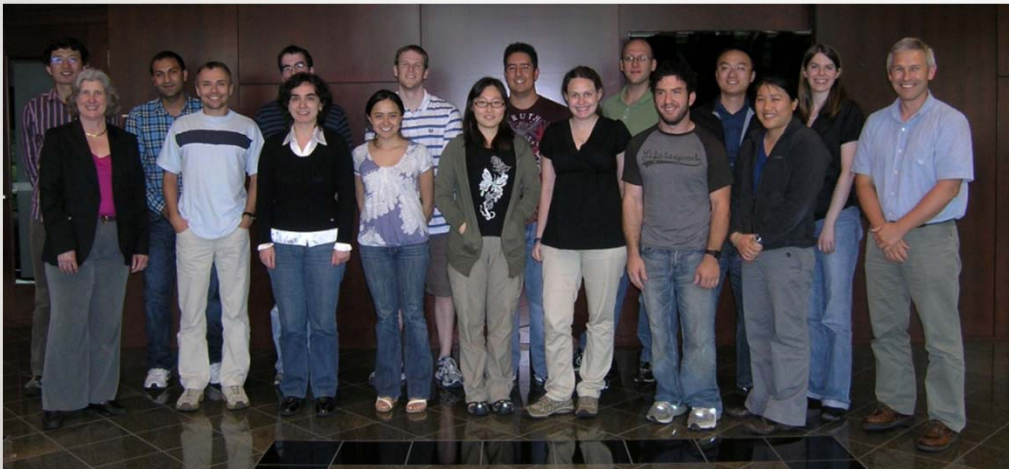
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Neutrons in Biology Graduate Course

- Graduate students in Structural Biology hands-on experience in neutron crystallography methods
- June 7-11, 2010 – May 23-27, 2011
- Sponsored by NCSU, ORAU, ORNL, DOE EPSCoR
- 15 participants in 2010



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ORAU Event Grants - 2011

- New program for 2011
 - Up to \$4000
 - Deadline March 30, 2011 for events through Sept 30, 2011
- University of Georgia, Nanotechnology of Infectious Diseases
 - April 1, 2011 Mercer University Graduate Campus, Atlanta, GA
- Virginia Tech, Cybersecurity lectures and Exercise
 - April 1-2, 2011 Blacksburg, VA
- NC State, Summer Course on Neutrons in Biology
 - May 23-27, 2011 Oak Ridge, TN

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Annual Council Meeting, March 8-9, 2011

- *Research and Education Partnership Opportunities in Security and Intelligence*
- HBCU/MEI breakfast event
- Capabilities/interests will be collected and shared



Andy Page and Dick Toohey with Kei Koizumi, assistant director for federal research and development for the White House Office of Science and Technology Policy at 2010 Council Meeting

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ORAU manages the Oak Ridge Institute for Science and Education (ORISE) for DOE

Our purpose, our value-based strategy . . .

- strengthen America's scientific research and education enterprise to enhance global competitiveness
- build public trust and confidence in the management of worker health and environmental cleanup initiatives
- enhance our nation's preparedness to respond to emergencies related to terrorist incidents, natural disasters, and health threats



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Through these ORISE programs, ORAU supports the missions of DOE

- Science Education Programs
- Scientific and Technical Resource Integration/Peer Review Programs
- Occupational Exposure and Worker Health Programs
- Health Communication and Technical Training Programs
- Independent Environmental Assessment and Verifications Programs
- National Security and Emergency Management Programs



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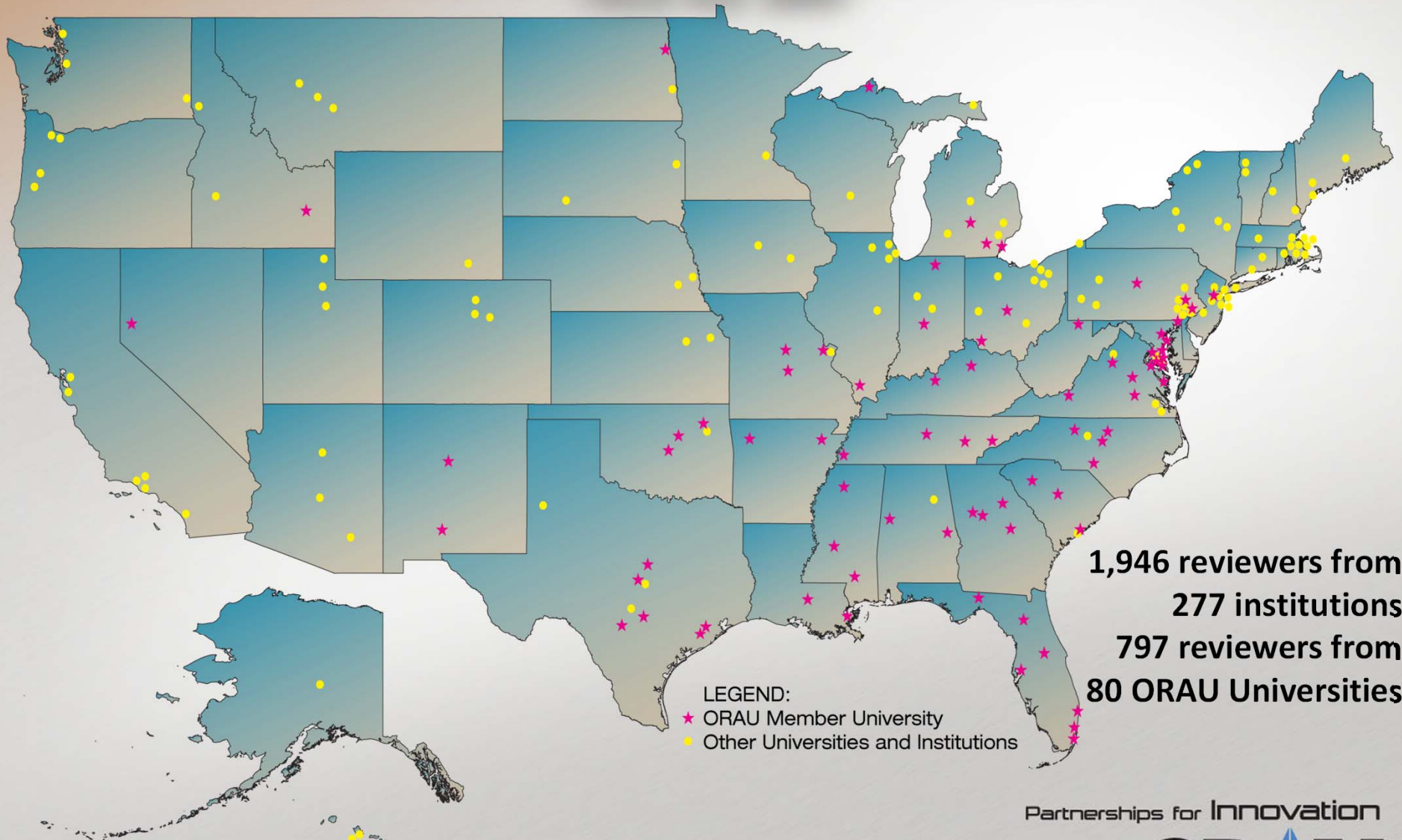


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STRI Reviewers from Universities and Colleges —Fiscal Year 2009—



**1,946 reviewers from
277 institutions
797 reviewers from
80 ORAU Universities**

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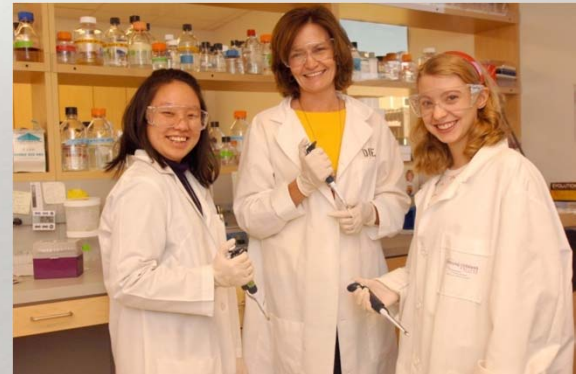
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Filling the pipeline of future science and technology leaders

- ORAU's contribution:
 - Experience-based programs tailored to measurable outcomes
 - Scholarship, fellowship, internship, postgraduate, postdoc, K-12, and senior scientist programs
 - 7,900 faculty and students annually; 1,000 colleges and universities; \$146M sponsored by 14 federal agencies; over 200 research institutions
- Major programs:
 - UT-Battelle/ORNL science education partnership
 - DOE scholarship, fellowship, internship programs
 - NASA postdoctoral associates
 - DHS scholars and fellows program
 - DHHS (FDA, CDC, NIH) undergraduate, graduate, postdoc programs



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Filling the pipeline of future science and technology leaders – ORAU Touches All Levels

In FY10, ORAU/ORISE Programs Involved more than 7,900 Participants

Education Level	# of Participants
Undergrad	1581
Graduates	936
Recent Graduates	1384
Postdoctoral Fellows	1322
College and University Faculty	386
K-12 Teachers and Students	2136
Other scientists & professionals	178

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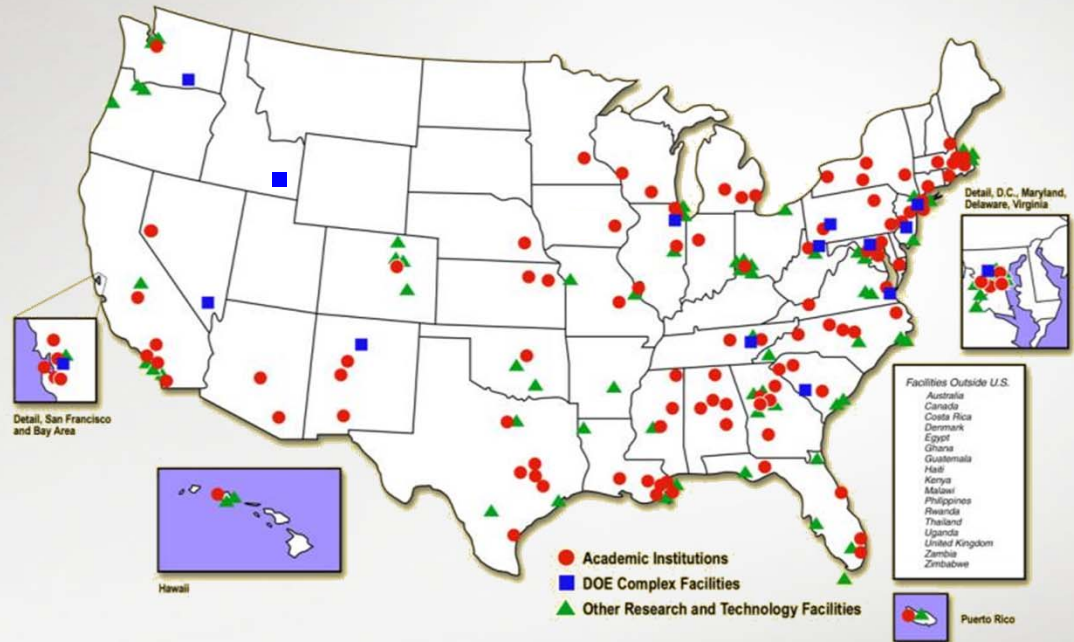
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National Laboratories, Federal Research Centers, and Universities Host Appointments

Program Sponsors Include:

Oak Ridge National Laboratory
Department of Energy
Centers for Disease Control
Department of Commerce
Department of Defense
Department of Homeland Security
Environmental Protection Agency
Federal Bureau of Investigation
Food and Drug Administration
National Aeronautics and Space Administration
National Institutes of Health
National Oceanic and Atmospheric Administration
National Science Foundation
Nuclear Regulatory Commission



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Detailed Information is Available on Each Program Operated by ORAU

ORISE Educational and Research Experiences - Microsoft Internet Explorer provided by ORAU

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Opportunities for Academic Fellowships and Scholarships, Research Experiences, Sabbaticals, and Internships

Available through programs at Oak Ridge Institute for Science and Education and Oak Ridge Associated Universities

■ How to use this site

College and University Faculty

Post Doctoral Fellows

Recent Master's, Bachelor's, Associate's Degree Grads

Graduate Students

Undergrad Students

K thru 12 Teachers and Students

Other Scientists

- Our commitment to diversity
- Special events
- Contact us

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ORAU University Partners participate in Science Education and Research Programs – FY 2010

- ORAU/ORISE administered programs - \$146M total all schools
 - ORAU institutions
 - Fellowship and Scholarship – 157 participants \$2.5M
 - Internships, Research and Travel Programs, Workshops – 2056 participants \$49.9M
 - Florida Atlantic University
 - ORNL Postdoctoral participant – Aurelain Rusanu
- ORAU Sponsored and Administered Programs
 - 5 programs – ~9 participants, ~\$500K

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Moving Forward

- Actively pursuing joint proposals
 - ORAU program plus universities
 - ORNL with universities
 - Facilitating collaborative proposals between universities
- Negotiating MOUs with all member universities
- Funds available to assist with technology field testing
 - University devices used by ORAU program
 - ORAU provides testing location, standard measurements
 - Jointly pursue SBIR, other funding
 - Ultimate goal, Incorporate innovative technology into ORAU work

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ORAU's New Center for Science Education

- Opened in February 2009; a LEED Gold Certified Commercial Building
- To bring tomorrow's science into today's classrooms
- To use science and technology to improve science and technology education



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**We are making a difference
We are... ORAU!**

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