



The U.S. Department of Energy Presents

2007 Day of Science

October 28-29, 2007
Knoxville Convention Center

Oak Ridge National Laboratory

2007 DOE Day of Science Wishes to Thank the
Following Sponsors:

U.S. Department of Energy, Office of Human Capital Management

U.S. Department of Energy, Office of Economic Impact and Diversity

U.S. Department of Energy, Office of Science

U.S. Department of Energy, Oak Ridge Office

Oak Ridge National Laboratory

UT-Battelle

Oak Ridge Associated Universities

Oak Ridge Institute for Science and Education

U.S. Nuclear Regulatory Commission



KEYNOTE SPEAKER

GENERAL (RET) LESTER LYLES

General Lyles is a senior executive with over 26 years experience running large, high-technology organizations involved in aeronautical and astronautical research, development, acquisition, and logistics. He is responsible for executing \$40 billion annually and managing 82,000 personnel

in operational locations throughout the United States. General Lyles has unparalleled success in achieving multiple organization missions, with result-oriented experience in supply chain management and technological operations. He has a demonstrated record of leading large organizations, effectively communicating with people, quality improvement, and optimizing revenue/costs.

- CEO/Commander, Air Force Materiel Command, Wright-Patterson AFB, Ohio, 2000-2003
- Chief Operating Officer/Vice Chief of Staff of U.S. Air Force, Pentagon, Washington, D.C., 1999-2000
- Chief Technical Officer/Director Ballistic Missile Defense Organization, Department of Defense, Washington D.C., 1996-1999
- Commander, Space and Missile Systems Center , Los Angeles AFB, CA. 1994-1996
- Commander, Ogden Air Logistics Center, Hill AFB, UT. 1992-1994
Ogden Air logistics Center, Hill Air Force Base, UT
- Director Systems and Requirements, AF Systems Command, Andrews AFB, MD 1992-1994

EDUCATION/TRAINING:

- National and International Security Program, Harvard University , 1991
- National War College , National Defense University , Ft. McNair , Washington , D.C., 1985
- MS in Mechanical (Nuclear) Engineering, Air Force Institute of Technology at New Mexico State University, 1969
- BS in Mechanical Engineering, Howard University, Washington , D.C., 1968

HONORS AND AWARDS:

- Honorary Doctorate of Laws, New Mexico State University , 2003
- 2003 Black Engineer of the Year Lifetime Achievement Award
- Aviation Week and Space Technology Laureate and Hall of Fame Awards
- "Astronautics Engineer of the Year" in 1990 by the National Space Club
- Ebony Magazine, "100 Most Influential African-Americans in America", 2001, 2002, 2003
- U.S. Black Engineer & Information Technology magazine "Top Technology Entrepreneurs-2004"

AGENDA
SUNDAY, OCTOBER 28, 2007

WELCOME RECEPTION - CLINCH CONCOURSE

5:00 p.m. – 7:00 p.m.

Early Registration

Welcome Remarks:

- Will Minter, Day of Science Project Manager
Oak Ridge National Laboratory
- Jeff Pon, Chief Human Capital Officer
Office of Human Capital Management, U.S. Department
of Energy
- Rufus Smith, Diversity Manager
U.S. Department of Energy, Oak Ridge Office

Special Activities

MONDAY, OCTOBER 29, 2007

OPENING SESSIONS - BALLROOM

7:30 a.m. – 8:15 a.m.

Continental Breakfast and Registration

8:15 a.m. – 8:30 a.m.

Welcome and Introduction of Speakers:

James Roberto, Deputy for Science and Technology
Oak Ridge National Laboratory

- Bill Haslam, Mayor
City of Knoxville
- Gerald Boyd, Manager
U.S. Department of Energy, Oak Ridge Office

8:30 a.m. - 9:10 a.m.

Introduction of Speakers: Ron Townsend, President,
Oak Ridge Associated Universities

Introduction to the Department of Energy and DOE Laboratories: Missions, Capabilities

- Bill Valdez, Associate Director, Workforce Development for
Teachers and Scientists, Office of Science, U.S. Department
of Energy

Department of Energy Human Capital Needs

- Jeff Pon, Chief Human Capital Officer
Office of Human Capital Management, U. S. Department of Energy

9:10 a.m. - 10:40 a.m.

Science and Technology at the DOE Laboratories

- “Secrets of the Ancient Goatskin: X-rays Reveal Oldest Writings of
Archimedes” Uwe Bergmann, Stanford Synchrotron Radiation
Laboratory, Stanford Linear Accelerator Center
- “Nanoscience, Nanoengineering, and the Next Technology Revolution”
Duane Dimos, Sandia National Laboratories
- “Green Energy: Bioscience to Biofuels”
Niels Van Der Lelie, Brookhaven National Laboratory
- “Bringing a Star to Earth: ITER and the Promise of Nuclear Fusion”
Ned Sauthoff, Oak Ridge National Laboratory
- “Our Cosmic Origins: Exploring the Mysteries of Exploding Stars”
Tony Mezzacappa, Oak Ridge National Laboratory

10:40 a.m. – 10:50 a.m.

BREAK – CUMBERLAND CONCOURSE

STUDENT TRACK

10:50 a.m. – 12:15 p.m. – CUMBERLAND AND HENLEY CONCOURSES, BREAK-OUT ROOMS (SEE EXHIBIT LAYOUT)

Science Exposition, Career Fair, Graduate School Fair, Department of Energy Interviews, and Networking

12:15 p.m. - 1:30 p.m. - BALLROOM

LUNCH

Welcome: James Roberto, Deputy for Science and Technology
Oak Ridge National Laboratory

Introduction of Speaker:

- Jeff Wadsworth, Executive Vice President
Laboratory Operations, Battelle

Keynote Speaker:

- General Lester Lyles, Retired, USAF
“Science & Technology Opportunities –Perspectives of a
Technology Leader”

1:30 p.m. - 2:30 p.m. - CUMBERLAND AND HENLEY CONCOURSES, BREAK-OUT ROOMS (SEE EXHIBIT LAYOUT)

Science Exposition, Career Fair, Graduate School Fair, Department of Energy Interviews, and Networking

2:30 p.m. – 3:30 p.m. - BALLROOM

Student Track Facilitator: Wayne Stevenson,
Director and Vice President
Oak Ridge Institute for Science and
Education
Oak Ridge Associated Universities

Internships and Career Opportunities

- Marcus A. Huggans, Senior Recruiter and Programs Specialist
National GEM Consortium
- Jeff Pon, Chief Human Capital Officer
Office of Human Capital Management, U. S. Department of Energy
- Noel Blackburn, Educational Programs Administrator
Brookhaven National Laboratory

3:30 p.m. - 4:00 p.m. - BALLROOM

Student Panel: Opportunities at DOE and DOE Laboratories

Moderator: Sarah Cousineau, Staff Physicist
Spallation Neutron Source, Oak Ridge National Laboratory

- Ariel Ruffin, Master's Graduate Student in Physics, Fisk University
Dual enrollment Fisk-Vanderbilt University Masters to Ph.D. Bridge Program
- Adam Carroll, Engineer
Nuclear Science and Technology Division, Oak Ridge National Laboratory
- Edwin Luevanos, Human Capital Specialist
Office of Human Capital Management, U.S. Department of Energy
- Steven Saavedra, Research Associate
Nuclear Technology Program Office, Oak Ridge National Laboratory

4:00 p.m.

Closing

FACULTY TRACK

Faculty Track Facilitator: Rufus Smith, Diversity Manager
U.S. Department of Energy, Oak Ridge Office

10:50 a.m. – 11:40 p.m. – ROOM 301 D-E

Department of Energy Science & Technology Mission and Opportunities

- Bill Valdez, Associate Director, Workforce Development for Teachers and Scientists, Office of Science, U.S. Department of Energy
- Kent Hibben, Procurement Specialist/COR, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy
- Tom Ballard, Interim Director, Technology Transfer and Economic Development, Oak Ridge National Laboratory

11:45 a.m. – 12:15 p.m. – ROOM 301 D-E

Collaborating with the Department of Energy and DOE Laboratories, Part I

Building Enduring Partnerships: Universities and Laboratories

- Wendy Cieslak, Senior Manager
Sandia National Laboratories

Mentor Protégé Programs

- Gloria Mencer, Manager for the Office of Socioeconomic Programs
BWXT Y12

12:15 p.m. – 1:30 p.m. - BALLROOM

LUNCH

Welcome: James Roberto, Deputy for Science and Technology
Oak Ridge National Laboratory

Introduction of Speaker:

- Jeff Wadsworth, Executive Vice President
Laboratory Operations, Battelle

Keynote Speaker:

- General Lester Lyles, Retired, USAF
“Science & Technology Opportunities –Perspectives of a Technology Leader”

1:30 p.m. - 2:30 p.m. – ROOM 301 D-E

**Collaborating with the Department of Energy and DOE Laboratories,
Part II**

Writing Winning Proposals and Grants Management

- Malika Hobbs, Diversity Program Manager
National Nuclear Security Administration, U.S. Department of Energy

Subcontracting Process

- Al Guidry, Subcontract Administrator
Spallation Neutron Source, Oak Ridge National Laboratory

Government Property – Loans and Donations to Educational Institutions

- Cheri Cross, Group Leader
Property Management, Oak Ridge National Laboratory
- Marcia Whitson, Property Disposal Manager
Property Management, Oak Ridge National Laboratory

Wise Strategies in Working with DOE

- Larry Thompson, Small Business Programs Manager
U.S. Department of Energy, Chicago Operations Office

2:30 p.m. - 3:30 p.m.

**CUMBERLAND AND HENLEY CONCOURSES, BREAK-OUT ROOMS
(SEE EXHIBIT LAYOUT)**

Science Exposition and Networking

3:30 p.m. – 4:00 p.m. – ROOM 301 D-E

Questions & Answers

Moderator: Annie Whatley, Senior Advisor for Education Programs
Office of Economic Impact and Diversity, U.S.
Department of Energy

4:00 p.m.

Closing

LIST OF EXHIBITORS

Booth

- 1 Los Alamos National Laboratory
- 2 BWXT Y-12 Nuclear Security Complex
- 3 Sandia National Laboratories
- 4 Sanford Linear Accelerator Center
- 4A U.S. Department of Energy – Office of Environmental Management
- 5 Department of Energy - Office of Human Capital Management
- 6 U.S. Department of Energy - Energy Efficiency & Renewable Energy
- 7 Oak Ridge Associated Universities
- 8 Thomas Jefferson National Accelerator Laboratory
- 9 Bonneville Power Administration
- 10 U.S. Department of Energy - Office of Fossil Energy
- 11 Savannah River National Laboratory
- 12 Ames Laboratory
- 13 National Energy Technology Laboratory
- 14 Princeton Plasma Physics Lab
- 15 Pacific Northwest National Laboratory
- 16 Argonne National Laboratory
- 17 Idaho National Laboratory
- 18 Brookhaven National Laboratory
- 19 Battelle
- 20 Oak Ridge National Laboratory - Video Wall
- 21 Oak Ridge National Laboratory - Human Resources
- 22 U.S. Department of Energy - Office of Nuclear Energy
- 23 U.S. Department of Energy - Office of Science, Chicago Office
- 24 Office of Scientific and Technical Information (OSTI)
- 25 U.S. Nuclear Regulatory Commission (NRC)
- 26 Oak Ridge Institute for Science and Education (ORISE)
- 27 Department of Homeland Security (DHS) Programs
- 28 Society of Hispanic Professional Engineers (SHPE)
- 29 GEM
- 30 University of Tennessee, Knoxville - College of Engineering
- 31 University of Tennessee, Knoxville - Mathematics
- 32 Vanderbilt University
- 33 Florida State University
- 34 Georgia Institute of Technology
- 35 North Carolina State University
- 36 Duke University
- 37 University of Virginia
- 38 Virginia Tech
- 39 Brown University
- 40 Rensselaer Polytechnic Institute
- 41 Arkansas State University
- 42 Iowa State University - Minds of Tomorrow
- 43 Wright State University
- 44 Middle Tennessee State University

- 45 Rose-Hulman Institute
- 46 Challenge X

Room 301B

- 47, 48 Oak Ridge National Laboratory - Environmental Sciences Division
- 49 Oak Ridge National Laboratory - Energy Efficiency and Renewable Energy Program
- 50 Oak Ridge National Laboratory - Engineering Science and Technology Division, Building Technologies
- 51 Oak Ridge National Laboratory - Environmental Sciences Division
- 52 Oak Ridge National Laboratory - Materials Science and Technology Division - Diffraction & Thermophysical Properties
- 53 Oak Ridge National Laboratory - Materials Science and Technology Division - Superconductivity
- 54, 55 Oak Ridge National Laboratory - Biosciences Division
- 56, 57 Oak Ridge National Laboratory - Nuclear Science and Technology Division
- 58 Oak Ridge National Laboratory -Biosciences Division Systems Genetics

Room 301C

- 59, 60 Oak Ridge National Laboratory - Nuclear Science and Technology Division
- 61 Oak Ridge National Laboratory - Physics Division
- 62 Oak Ridge National Laboratory - Genome Management Information System
- 63, 64 Oak Ridge National Laboratory - Center for Nanophase Materials Sciences
- 65 Oak Ridge National Laboratory - Chemical Sciences Division
- 66 Oak Ridge National Laboratory - Chemical Sciences
- 67 Oak Ridge National Laboratory - National Transportation Research Center
- 68 Oak Ridge National Laboratory- Spallation Neutron Source (SNS)

Additional Locations

- 300A Cyber Café
- 301A Computing and Computational Sciences Directorate
Oak Ridge National Laboratory
- 300B BWXT Y-12 Presentations
- 300C Interview Room
- 300D Wonders of Plasma Demonstrations at 11:00, 11:35 and 1:45

Cumberland Circle

Challenge X Cars and NTRC Vehicle

2007 DOE Day of Science Welcomes:

Alabama A&M University	Iowa State University
Albany State University	Jackson State University
Albion College	Knox College
Alcorn State University	Knoxville College
Allen University	Lane College
Anderson University	Lawson State Community College
Appalachian State University	Lincoln University
Arkansas State University	Louisiana State University
Auburn University	Marymount University
Austin Peay State University	Maryville College
Bearden High School	Massachusetts Institute of Technology
Brown University	Medgar Evers College
Carson-Newman College	Middle Tennessee State University
Carter High School	Miles College, Birmingham
Central State University	Miles College, Fairfield
Clafin University	Mississippi State University
Clark Atlanta Univesity	Mississippi Valley State University
College of Charleston, Charleston	Morehouse College
College of Charleston, Mount Pleasant	Morgan State University
Colorado College	Murray State University
Denison University	North Carolina State University
Duke University	Oak Ridge High School
Earlham College	Ohio State University
East Carolina State University	Paine College
East Tennessee State University	Pellissippi State Technical Community College
Edward Waters College	Penn State University
Elizabeth City State University	Polytechnic University of Puerto Rico, Hato Ray
Emory & Henry College	Polytechnic University of Puerto Rico, San Juan
Fisk University	Purdue University
Florida A&M University	Rensselaer Polytechnic Institute
Florida State University	Rhodes College
Fort Valley State University	Rose-Hulman institute of Technology
Georgia Institute of Technology	
Georgia State University	
Grinnell College	
Hope College	
Illinois State University	
Indiana University	
Indiana Univ-Purdue Univ Indianapolis	

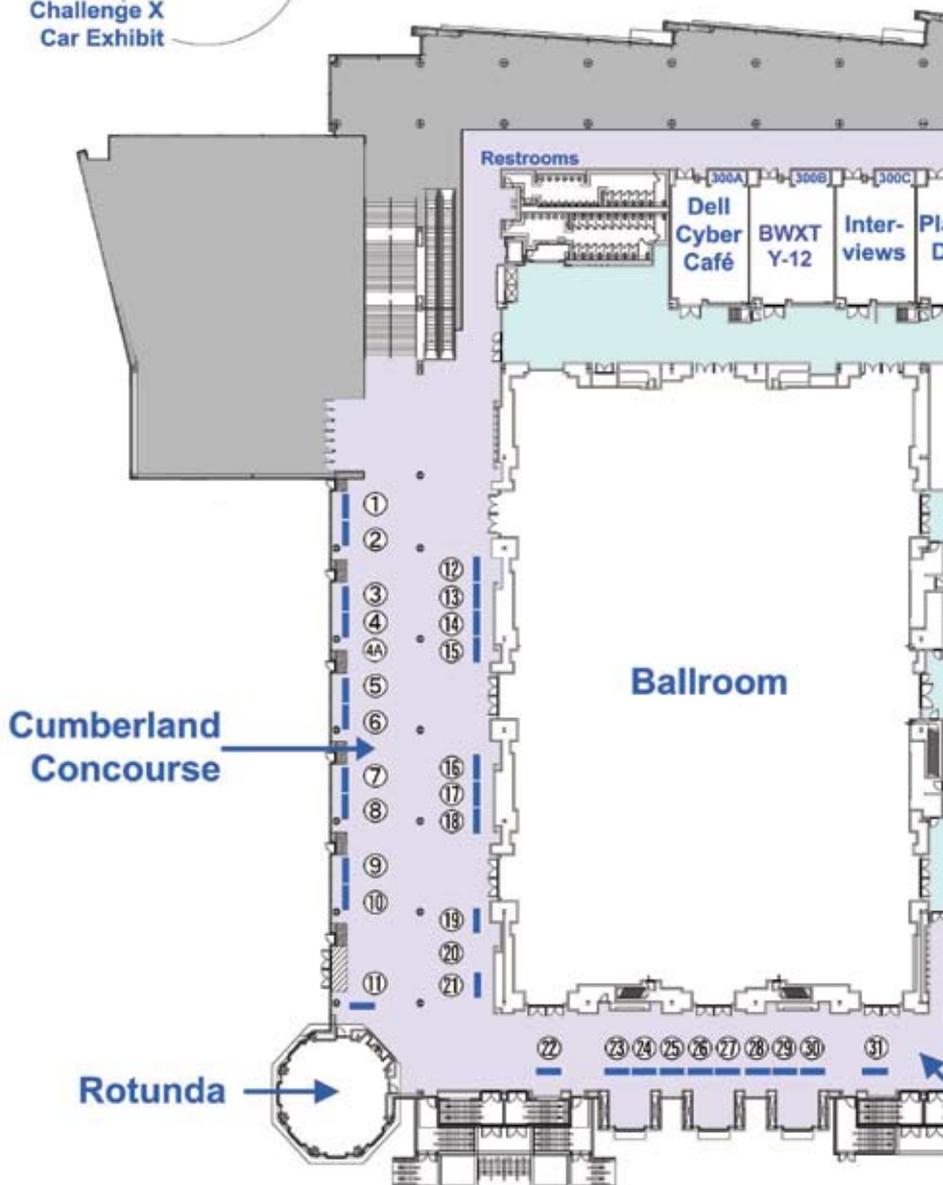
Savannah State University
South Carolina State University
Southern Adventist University
Southern Illinois University,
Carbondale
Southern University and A&M
College
Southwest Tennessee
Community College
Southwestern Christian College
Spelman College
Spring Hill College
St.Philip's College
Tallahassee Community College
Tennessee State University
Tennessee Technological
University
Texas A&M University
Tougaloo College
Tuskegee University
Union University
Universidad del Turabo
University of Cincinnati
University of Dayton
University of Evansville
University of Florida, Gainesville
University of Florida, Wimauma
University of Georgia
University of Houston-Downtown
University of Illinois at Chicago
University of Illinois at Urbana
Champaign
University of Maryland
University of Memphis
University of North Carolina at
Pembroke
University of Pennsylvania, Lock
Haven
University of Puerto Rico,
Mayaguez
University of South Carolina
University of South Florida
University of Tennessee
College of Law
University of Tennessee Space
Institute
University of Tennessee,
Knoxville
University of Tennessee,
Chattanooga
University of Texas at El Paso
University of Texas, Austin
University of Texas, Dallas
University of Texas, El Paso
University of Toledo
University of Virginia
Valdosta State University
Vanderbilt University
Virginia Tech
Voorhees College
Walters State Community
College
Washington University
Wayne State University
West Virginia State University
Whittier College
Winston Salem State University
Wofford College
Wright State University

2007 DOE Day of Science at the

October 2

Cumberland Circle

Challenge X
Car Exhibit



The Knoxville Convention Center

8-29, 2007

