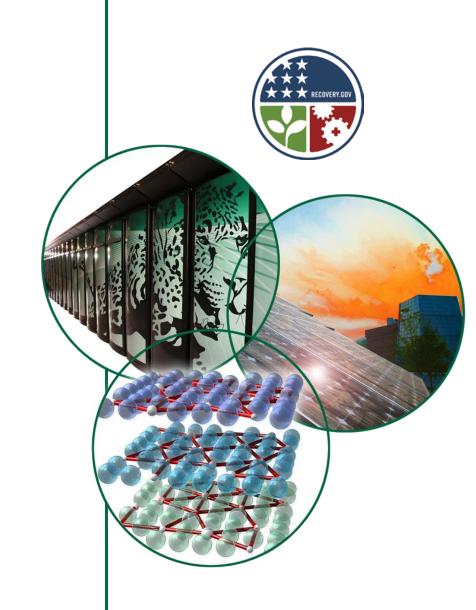
Ensuring the Success of Multiple Projects: Managing the Interfaces

Integrated Safety Management Summit

Jeff Smith
Deputy for Operations
Oak Ridge National Laboratory

Knoxville, Tennessee August 26, 2009







Jeff Smith: Bio slide

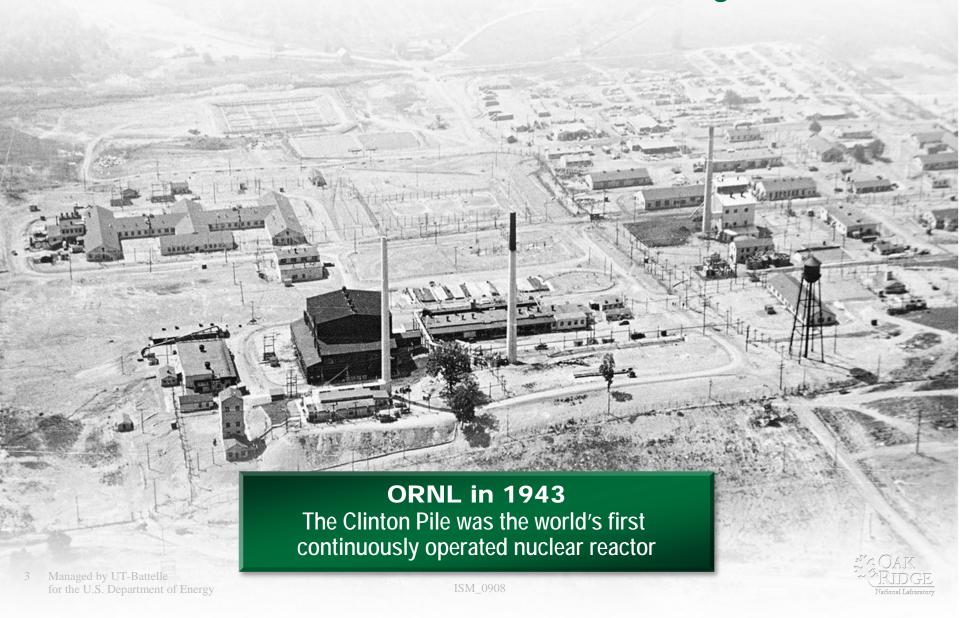
As Deputy for Operations at ORNL, Jeff Smith coordinates the Laboratory's operations and support functions. With the Deputy for Science and Technology, he supports the Laboratory Director in the planning, integration, and execution of Laboratory-level initiatives.

Since joining ORNL in 2000, Mr. Smith has led a \$500 million modernization project that has given rise to more new construction at the Laboratory than at any time since the Manhattan Project. Under Mr. Smith's leadership, UT-Battelle developed and deployed an innovative strategy that leverages funding from federal, state, and private-sector partners to transform ORNL into a 21st century research institution.

A native of Logan, Ohio, Mr. Smith graduated from the Ohio State University in Columbus, Ohio, with a bachelor's degree in ceramic engineering. Before coming to Oak Ridge, he was Deputy for Operations at the Pacific Northwest National Laboratory (PNNL), acting as principal advisor to the Laboratory Director on operational matters, and earlier served as Quality Director at PNNL, leading the development of several laboratory management approaches that have been widely implemented at laboratories managed or co-managed by Battelle.



Oak Ridge National Laboratory evolved from the Manhattan Project



Today, ORNL is DOE's largest science and energy laboratory

- \$1.4B budget
- 4,350 employees
- 4,000 research guests annually
- \$500 million invested in modernization

- Nation's largest concentration of open source materials research
- World's most intense pulsed neutron source and a world-class research reactor
- World's most powerful open scientific computing facility
- Nation's most diverse energy portfolio
- Managing the billiondollar U.S. ITER project



Our scope of activities today has no precedent in ORNL's history

- Ongoing R&D to support critical DOE mission objectives
- Modernization of laboratory facilities and infrastructure
- Creation of a Science and Technology Park to advance technology transfer to the private sector
- Finishing the cleanup of the Cold War legacies

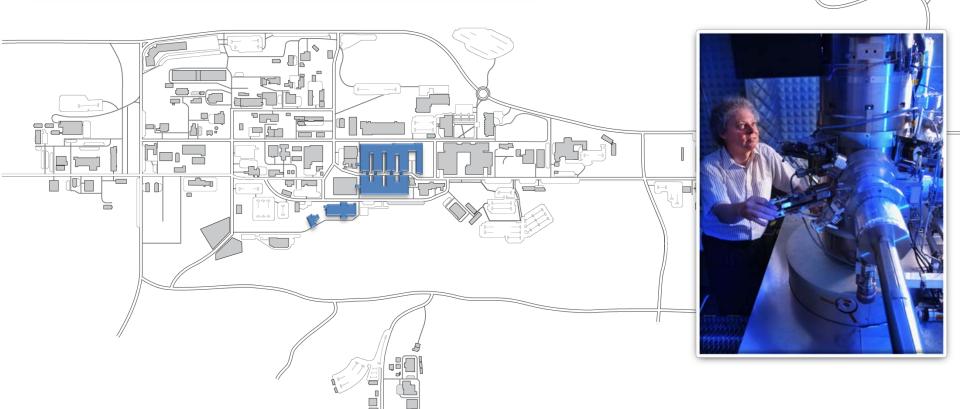


Two DOE Energy Frontier Research Centers

Defect Physics in Structural Materials

Managed by UT-Battelle for the U.S. Department of Energy

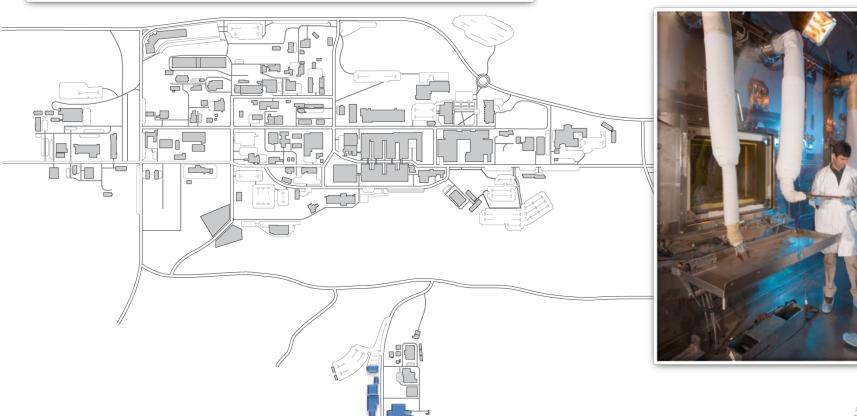
Fluid Interface Reactions, Structures and Transport



ISM 0908

World's leading neutron science capability

- World's most powerful source of pulsed neutrons
- World-leading research reactor
- Joint Institute for Neutron Sciences



ISM 0908





World's fastest open science computing capability

- DOE Leadership Computing Facility
- NSF National Institute for Computational Sciences



One of three DOE **Bioenergy Research Centers**

Solve the recalcitrance of cellulose



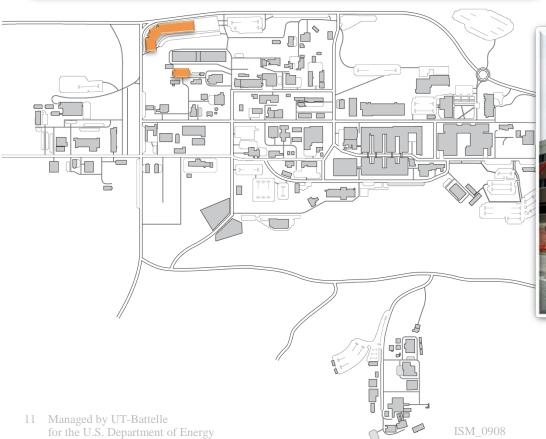
ISM 0908



Roughly \$220M of modernization activities 10 Managed by UT-Battelle ISM 0908 for the U.S. Department of Energy

Advancing technology transfer through creation of S&T Park

- \$14M Pro2Serve National Security Engineering Center
- Halcyon Commercialization Center

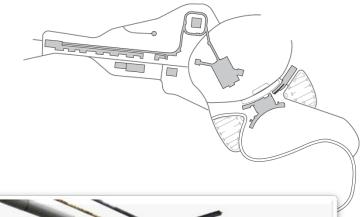


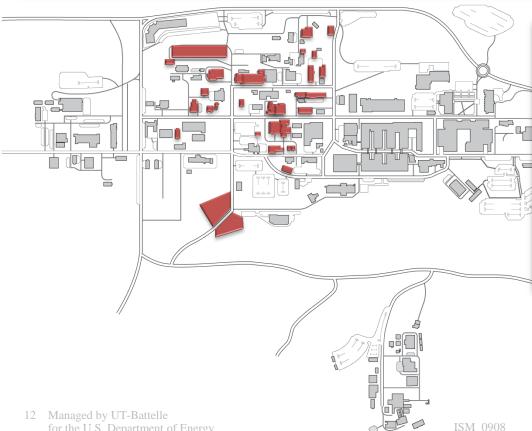




\$270M of cleanup activities

- Demolish 34 facilities
- Remove a highly radioactive underground tank
- Deinventory 2 large "hot cell" facilities
- Cap 2 burial grounds



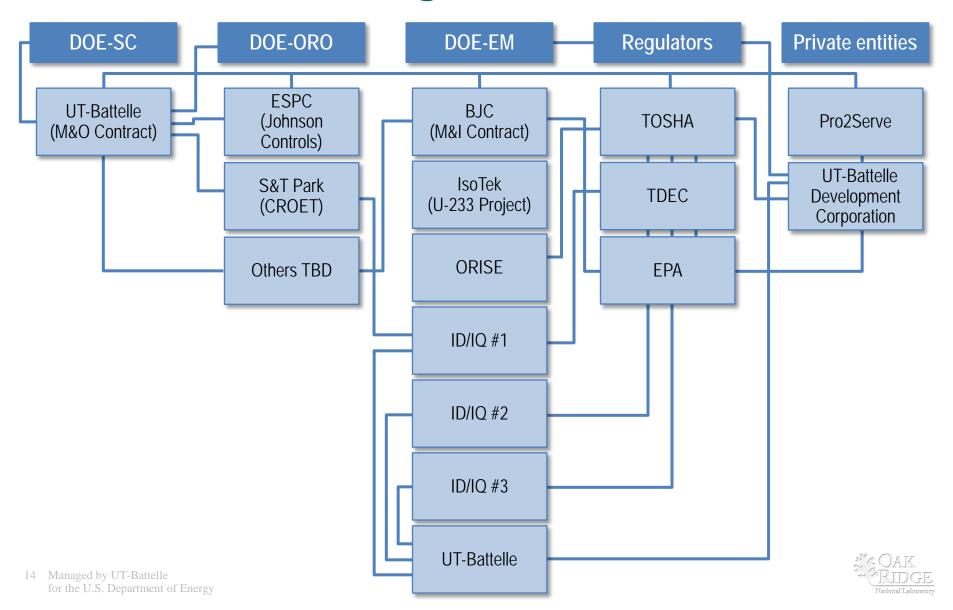




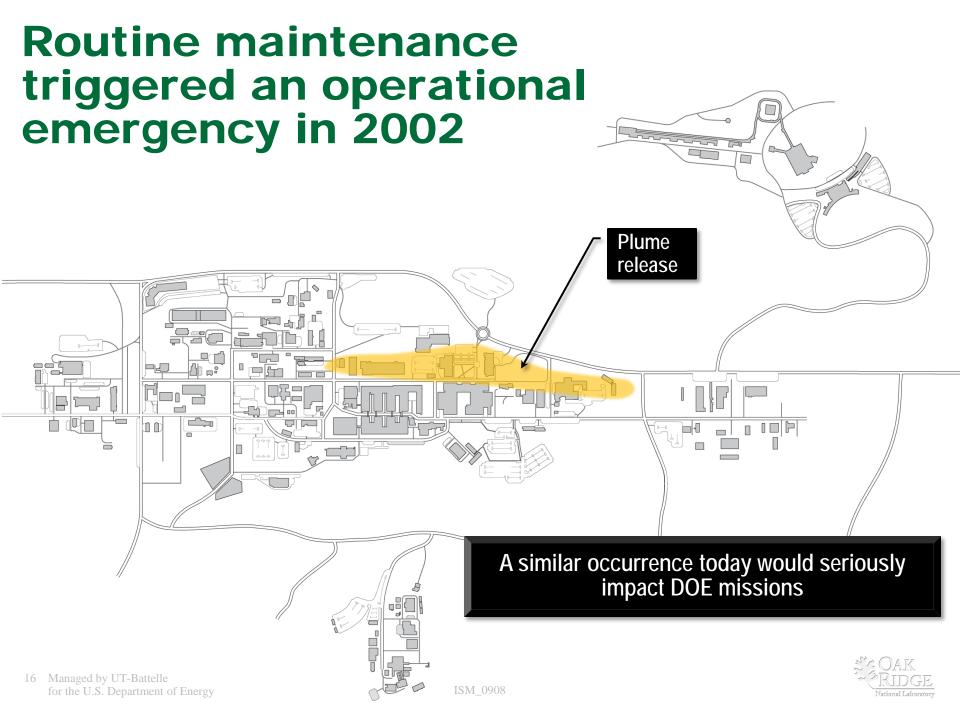


High concentration of work in a 6 block area 13 Managed by UT-Battelle ISM 0908 for the U.S. Department of Energy

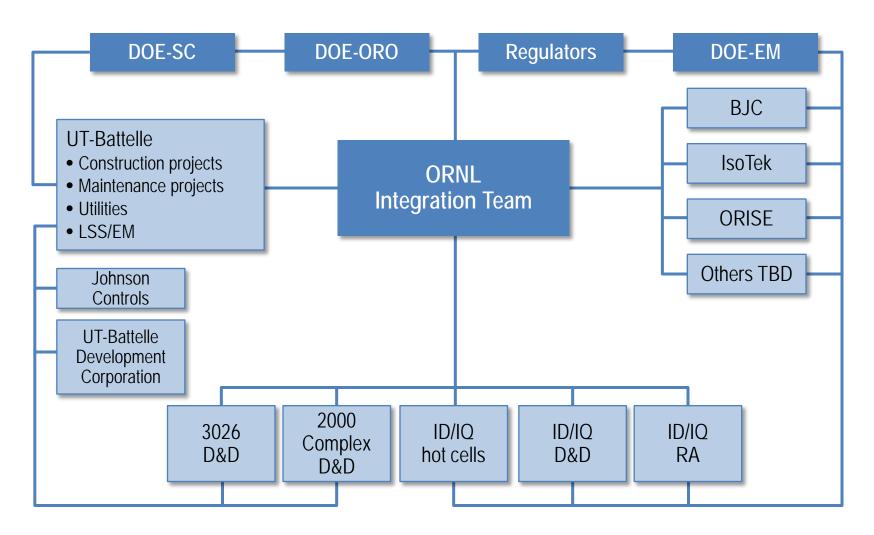
The level of activity and complexity is at an all-time high







ISM guiding principle: Clear roles and responsibilities



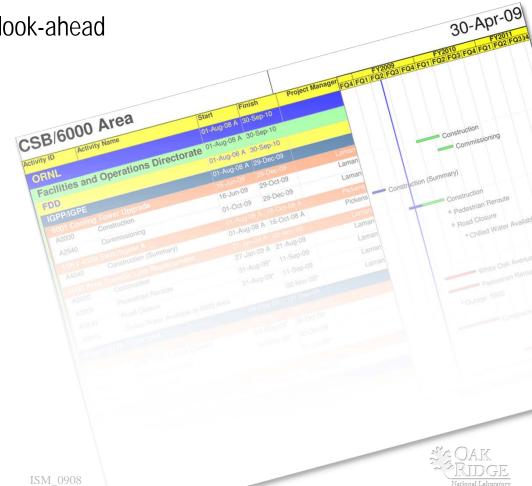


Integration Team meetings have kicked off and are proving valuable

 ORNL Integration Team moving from monthly to weekly meetings as work is ramping up

 "Plan of the Week" format with 3-week look-ahead of major planned activities

- Among ARRA projects
- With other projects
- Single integrated planning base for all significant project activities
 - Real estate assignments
 - Outages, road closures, drills, etc.
- Detailed schedules are adjusted, as needed, during project-level "Plan of the Day" meetings



Team approach provides a forum to identify and address interface issues

- Development of Interface Specifications between prime contractors is used to codify agreements
- For the Central Campus where congestion is a major issue, we are establishing a War Room to facilitate real-time communication between contractors
- Project leaders are planning proactively to eliminate "error traps"
 - Provide training specific to ORNL hazards and conditions
 - Use consistent construction signage and barriers
 - Recognize and resolve conflicting mission needs/desires



ISM guiding principle: Competence commensurate with responsibilities

Project Technical Coordinators

- U-233 Disposition
- S&T Park Development
- Cleanup
- **Energy Savings** Performance Contract

IPA to DOE-EM

Lee McGetrick



"Secretary Chu emphasized the need for project managers for EM projects. He is seeking really good project managers assigned to DOE even for a year."

NATIONAL LABORATORY DIRECTORS COUNCIL DOE SECRETARY and NLDC EXECUTIVE COMMITTEE MEETING

invastore representations on making the system (Labs and DOE alike) more amenable to the inventors pursuing patents and licenses. ACTION – NLDC provide a set of recommendations inventors pursuing patents and accesses. ACITON—NLDC provide a set of recommendational issues and specific activities that could be done at each Lab to enhance

 $American\ Recovery\ and\ Reinvestment\ Act\ (ARRA)\ Plans\ and\ Needs$ Tom Hunter reviewed the set of recommendations provided to DOE in a letter forwarded I om Hunter reviewed the set of recommendations provided to DOE in a fetter forwarded April 1, 2009 to the Secretary. He noted that the NLDC has identified a sub-group of four Thom Hunter and Thom Macan which can be for the first terms of the following terms of the first terms o April 1, 2009 to the Secretary. The noted that the NLLVE has identified a sub-group of 10 mobilized that I also recommond. April 1, 2009 to each mobilized that I also recommond. April 1, 2009 to each mobilized that I also recommond to each mobilized that I also recommond to each mobilized that I also recommended that I also recommended to each mobilized that I also recommended that I also recommende Lab Directors (Dan Arvizu, Carl Bauer, Tom Hunter, and Thom Mason) who can help and Matt Rooers.

ACTION - NLDC to set up a telecon between the sub-group Matt Rogers provided an und

le expects a flood of applications or help in setting up and manning hat the proposals can be

ssible. Rogers also noted that Scover costs. Currently, DOE is subject to 19% cap on how much an help with ARRA processing and tasks, but DOE is assed a concern regarding approval of the conflict of interest form and suggested Inistration and oversight, and that issue is still being worked by DOF. Thom projects. He is seeking really good project managers assigned to DOE even for a year. Secretary Chu emphasized the need for project managers for the EM Cyber-security, governance and operations actions

Secretary Chu asked about the progress on the governance and operations posture. Adam will prepare the Secretary Chu asked about the progress on the governance and operations posture. Adam recommendations to the NLDC. To date, they are working on an evaluation of the past Cohen reported that the COO working group is starting the evaluation and will prepare the evaluation of the NLDC. To date, they are working on an evaluation of the past

Our strategy adds technical depth that extends to site conditions, emergency interfaces, and regulatory history



