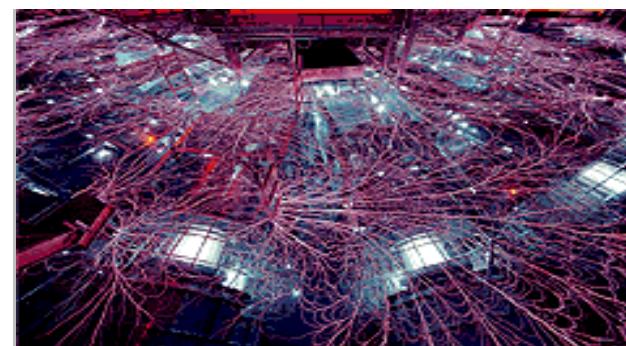


*Exceptional service in the national interest*



# Sandia National Laboratories

## Overview

### Doug Wall

# Our Business: National Security

Core purpose:

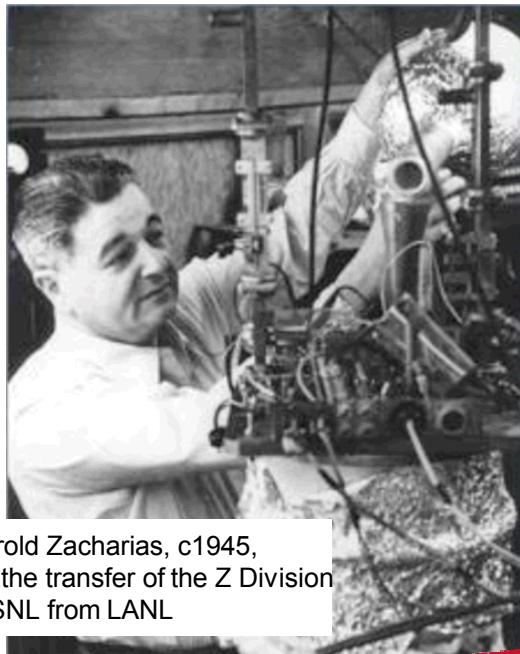
- To help our nation secure a peaceful and free world through technology

Highest goal:

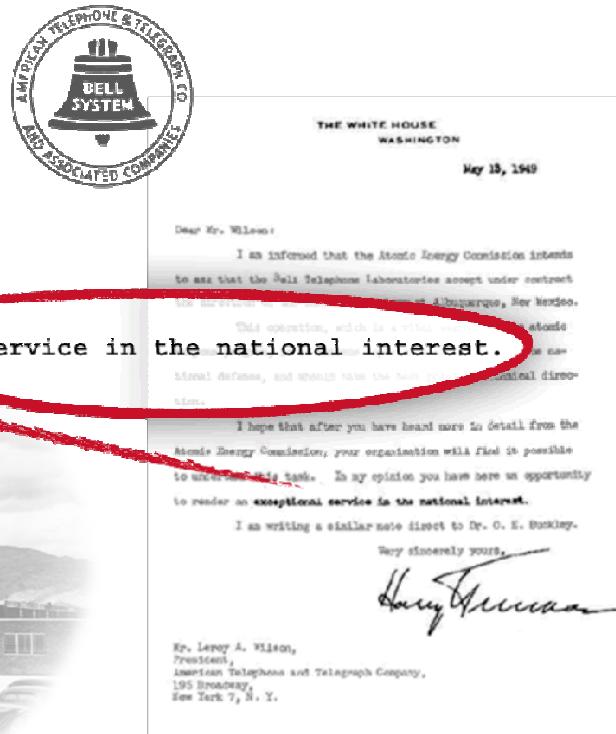
- To become the laboratory that the United States turns to first for technology solutions to the most challenging problems that threaten peace and freedom for our nation and the globe



# Heritage: Exceptional service in the national interest



Jerrold Zacharias, c1945,  
led the transfer of the Z Division  
to SNL from LANL



# Sandia's Sites

Albuquerque, New Mexico



Kauai, Hawaii



Pantex, Texas



Livermore, California

WIPP, New Mexico

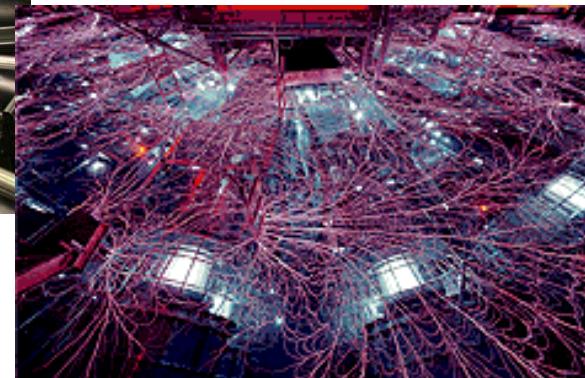
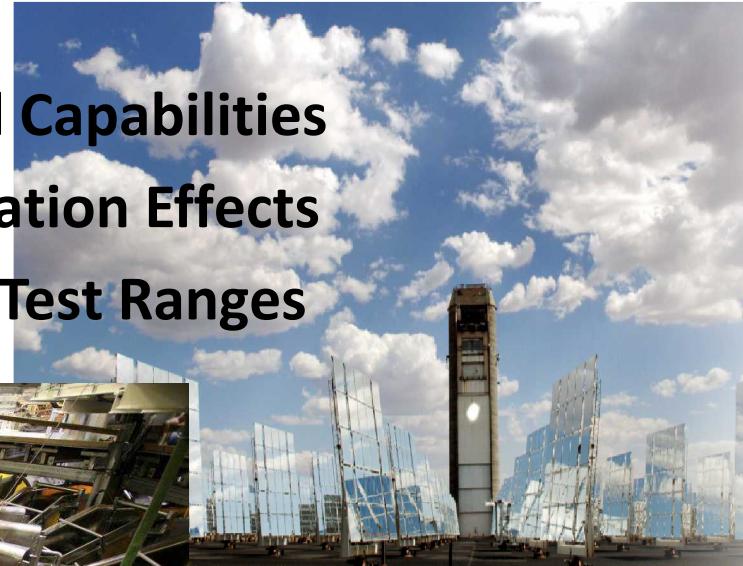


Tonopah, Nevada

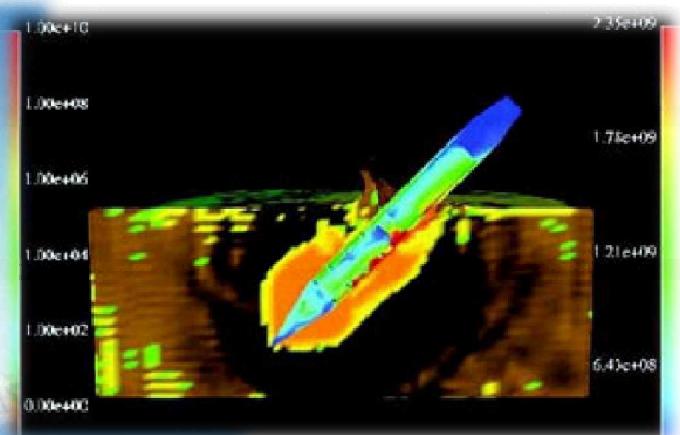
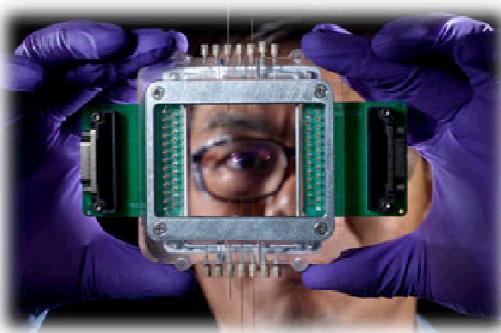


# Unparalleled Facilities and Test Capabilities

- User Facilities
- Designated National Capabilities
- Z-Machine and Radiation Effects
- Large Scale Physical Test Ranges



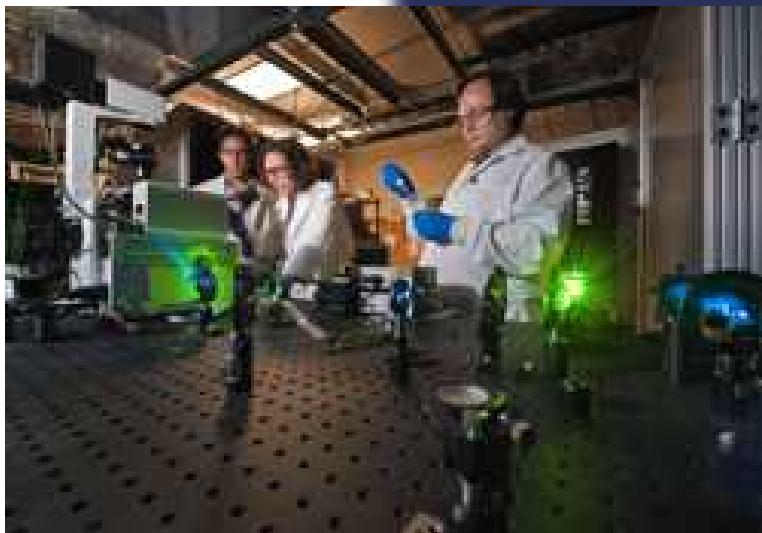
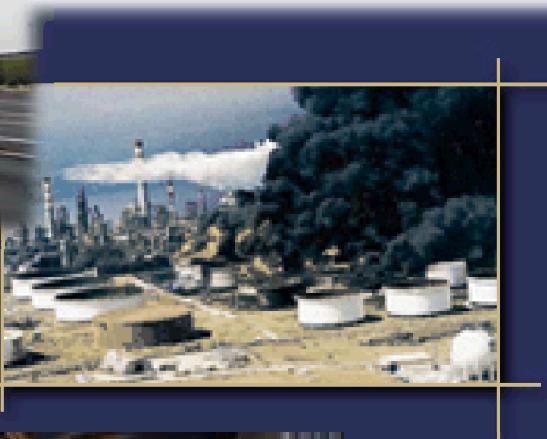
# Nuclear Weapons



# Energy, Climate, and Infrastructure Security



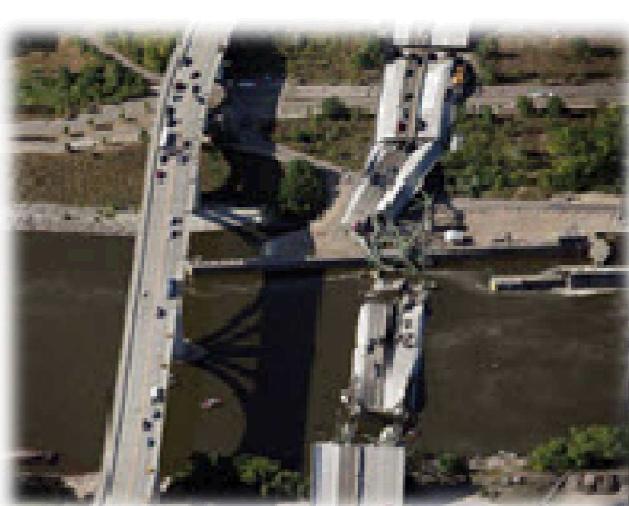
# Nonproliferation



# Defense Systems and Assessments



# Homeland Security and Defense



# MAC at Sandia



*(left to right) USAFA Cadets Nelson & Rasfeld; Sandian, USNA MIDN Swift, Sandian, USNA MIDN Whippo*



*(left to right) USCGA Cadet Lee, USAFA Cadet Rasfeld, USMA Cadet Bauer*



*(left to right) USNA MIDN Whippo, Sandian, Sandian, USAFA Cadet Jones, USAFA Cadet Rasfeld, USCGA Cadet Lee*

- Rising Juniors/Seniors eligible
- Challenging real-world, relevant hands-on projects with world class scientists
- Technical and professional growth
- Unique learning experience
- Contact [MAC-Program@sandia.gov](mailto:MAC-Program@sandia.gov) for more information

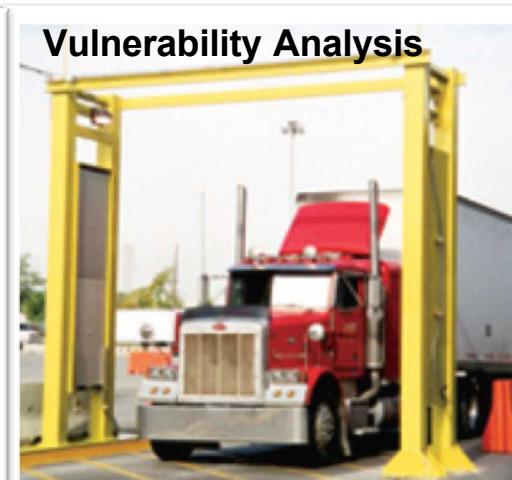
# MAC 2012 Projects



Explosives Testing



Synthetic Aperture Radar



Vulnerability Analysis

- A wide range of projects are available at Sandia/NM and Sandia/CA.
- A sample of 2012 projects:
  - Explosives testing support
  - Vulnerability analysis (ports, DoD, infrastructure)
  - Aircraft Compatibility
  - Surface metrology
  - Malware tool analysis
  - Robotics
  - Synthetic Aperture Radar (SAR)

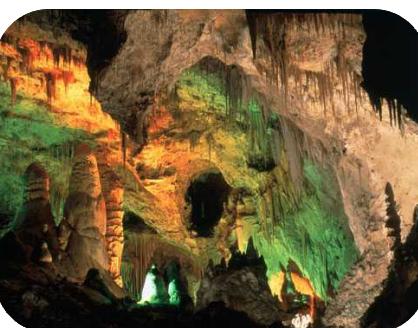


Aircraft Compatibility



Robotics

# Albuquerque, New Mexico



- Hiking Trails (La Luz)
- National Monuments
- Albuquerque Isotopes Baseball
- Albuquerque BioParks
- Shopping and Dining
  - Old Town, ABQ Uptown
- Around NM:
  - Taos
  - Carlsbad Caverns
  - Roswell
  - Santa Fe
  - Jemez Mountains
  - White Water Rafting



# Questions?

**MAC-Program@sandia.gov**