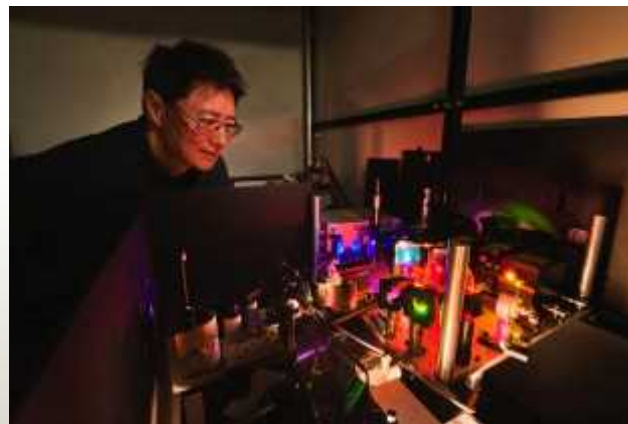
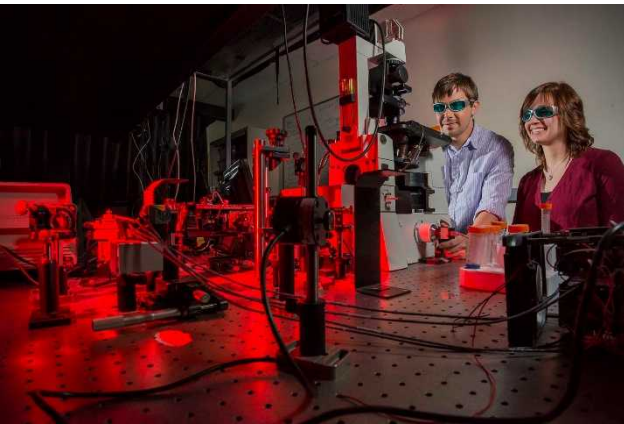


*Exceptional service in the national interest*



# Overview of the National Security Technology Gallery August 24<sup>th</sup>, 2016

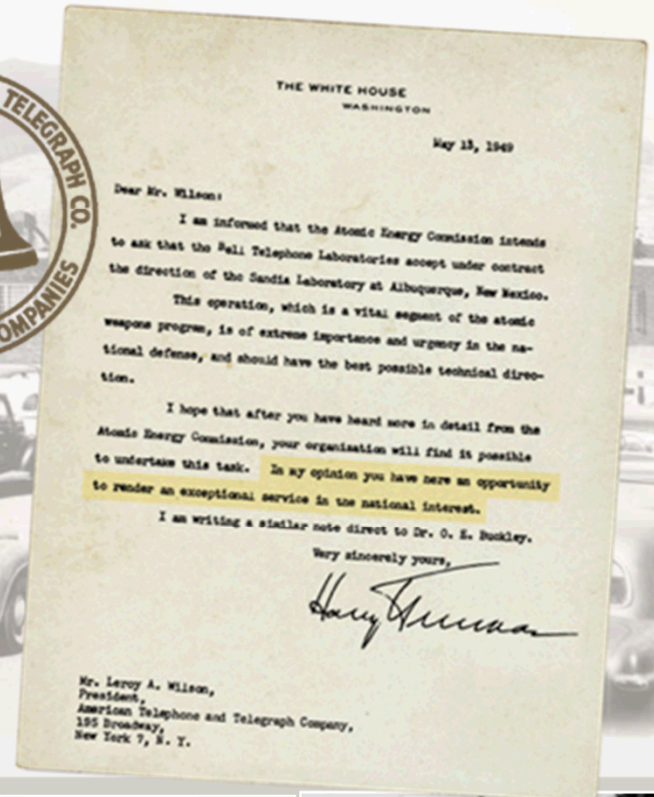
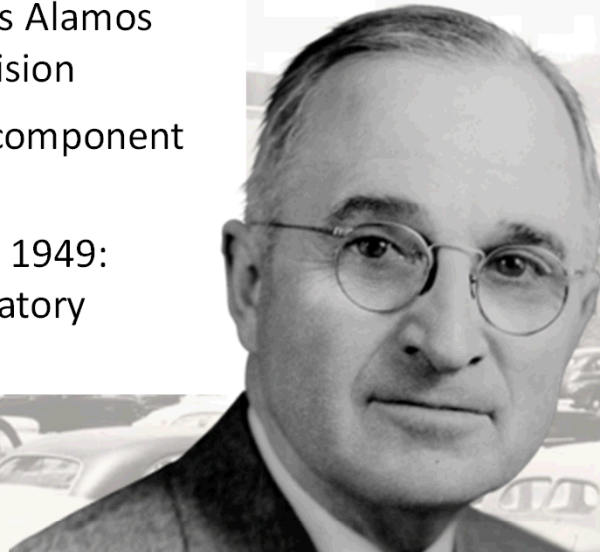
John Kiegel



# Sandia's history

*Exceptional service in the national interest*

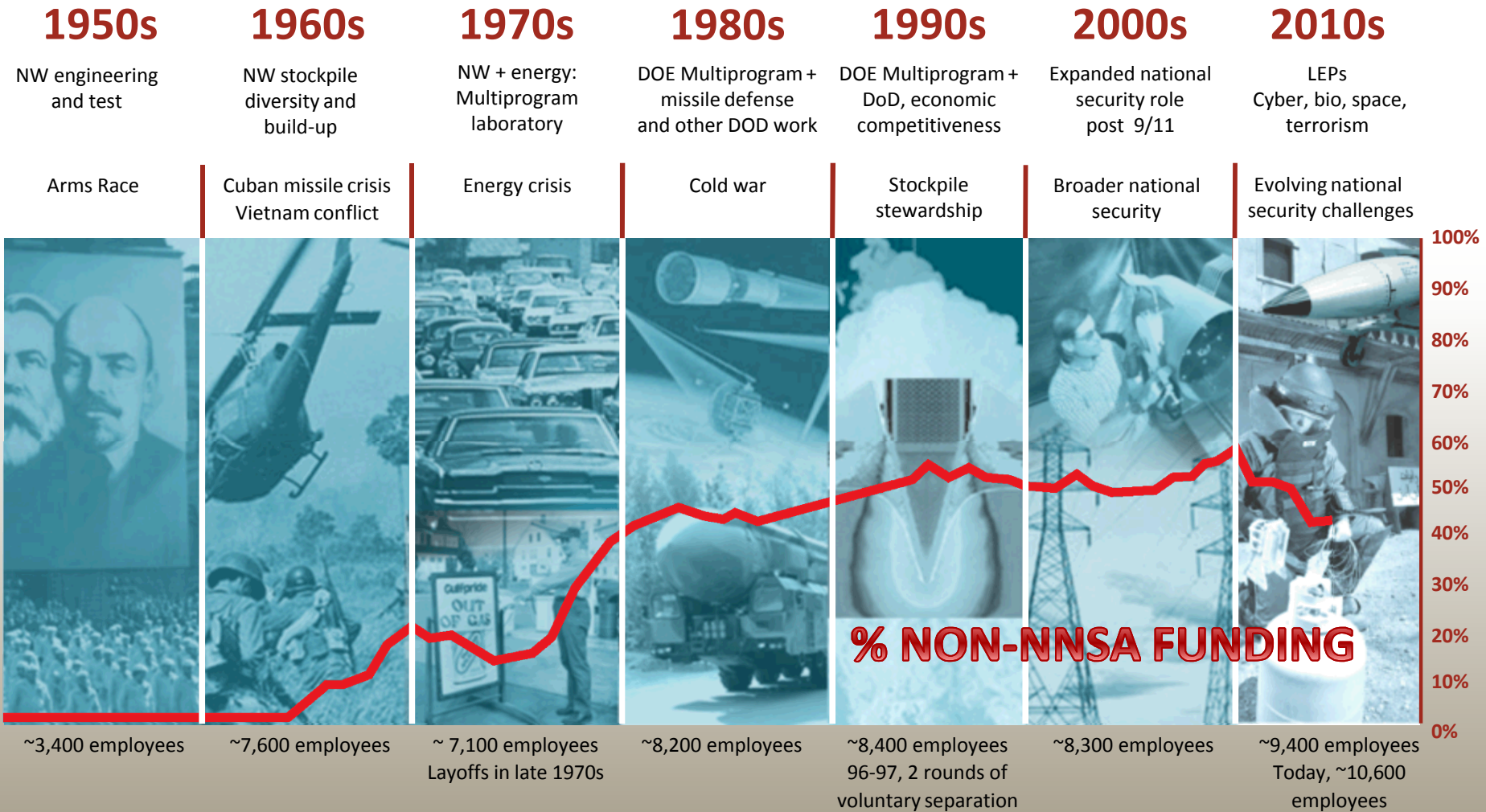
- July 1945: Los Alamos creates Z Division
- Nonnuclear component engineering
- November 1, 1949: Sandia Laboratory established



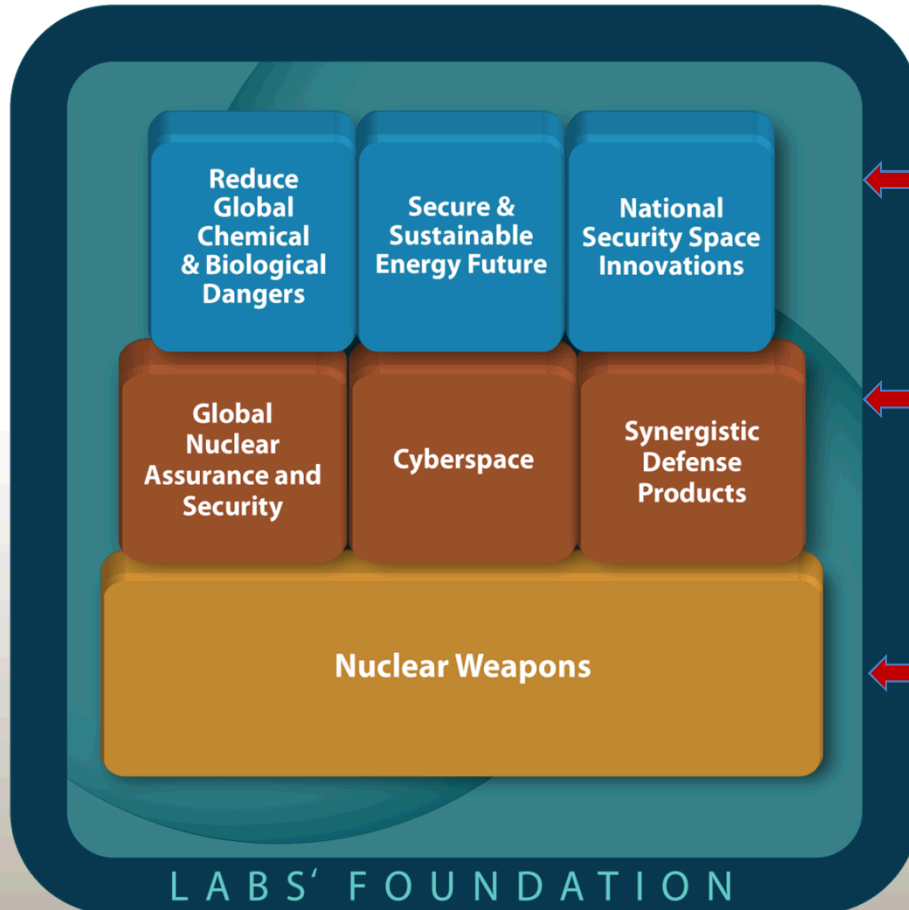
to undertake this task. In my opinion you have here an opportunity to render an exceptional service in the national interest.



# Sandia: A multimission lab



# National security mission areas



- Top row: Critical to our national security, these three mission areas leverage, enhance, and advance our capabilities.
- Middle row: Strongly interdependent with NW, these three mission areas are essential to sustaining Sandia's ability to fulfill its NW core mission.
- Bottom row: Our core mission, nuclear weapons (NW), is enabled by a strong scientific and engineering foundation.



# Global Nuclear Assurance and Security

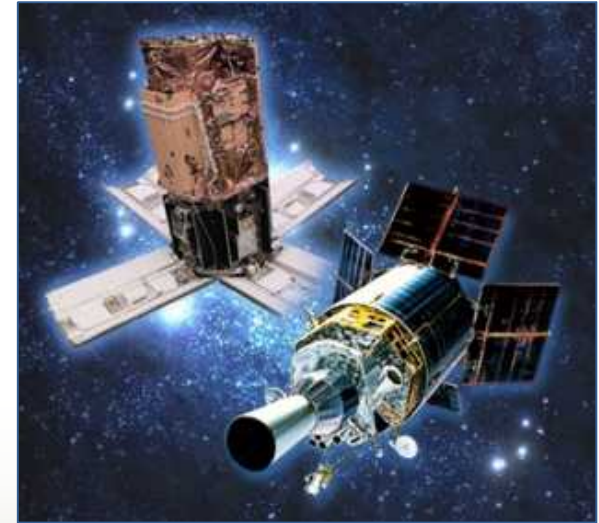
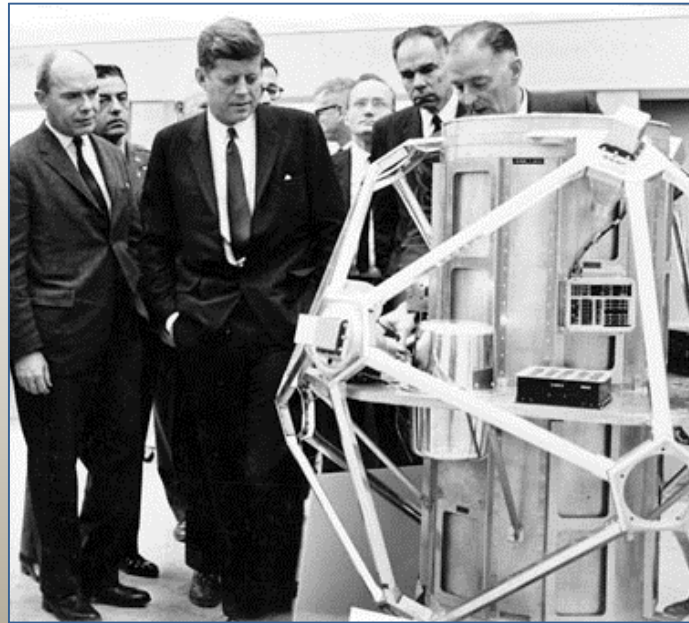
- SMART Machine
- ARCS Pod
- Weapons Security
- Asset Protection



# National Security Space Innovations



- VELA Program
- Bhangmeters
- Multispectral Thermal Imager (MTI)



# Cyberspace



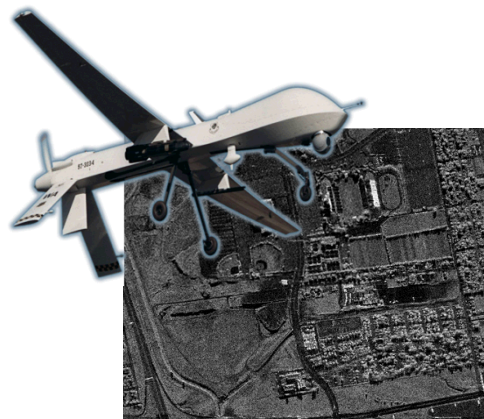
- Permissive Action Links (PALS)
- WeaselBoard
- Supply Chain Security



**CYBERSPACE**

Sandia's cybersecurity research includes concentrating on securing hardware, software, systems and networks. The lab is developing and implementing new technologies to build and maintain cyberspace.

# Synergistic Defense Products

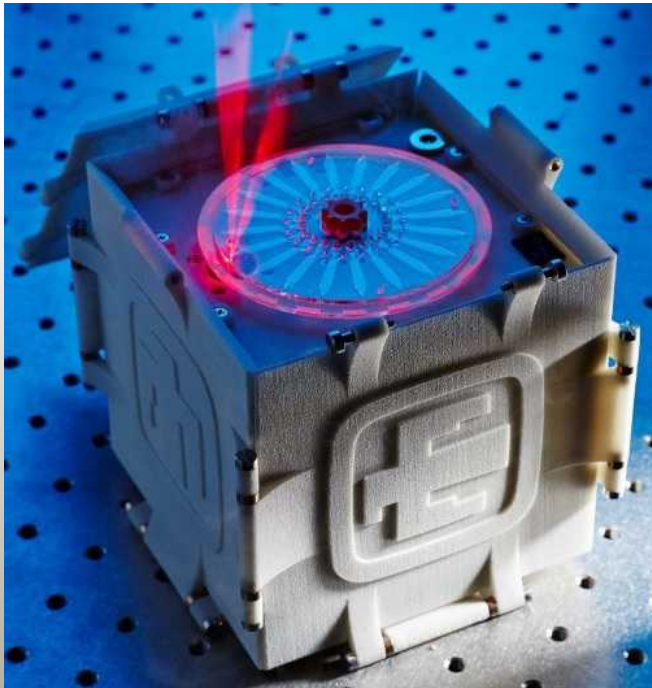


- Synthetic Aperture Radar (SAR)
- Copperhead
- Emergency Response



# Reducing Global Chemical & Biological Dangers

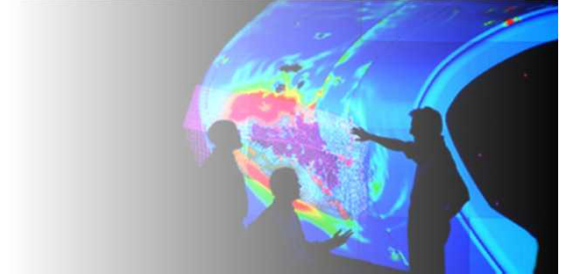
- Microfluidics
- SpinDX
- BaDX



# Secure & Sustainable Energy Futures



- Transportation Energy
- Stationary Power
- Climate Change



# Questions?

- National Security Technology Gallery:
  - Pathfinders
  - Protection
  - Partnerships

