

*Exceptional service in the national interest*



# WELCOME

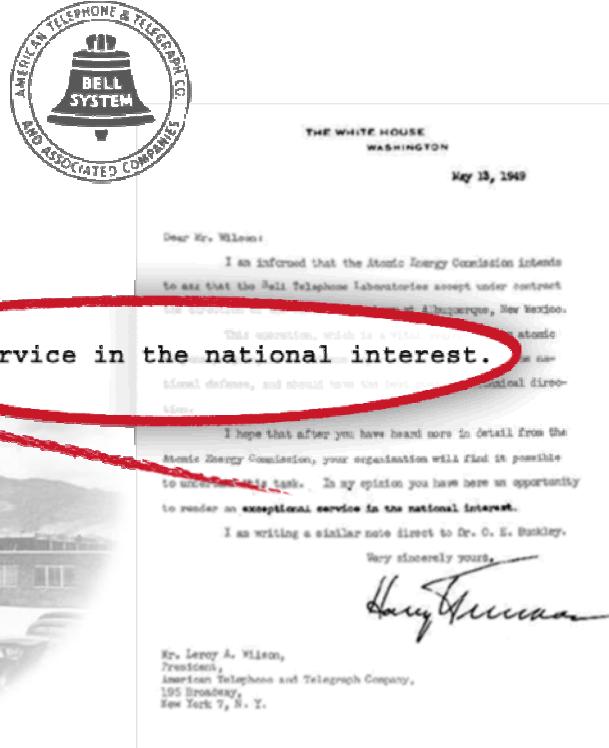
# Center 6500 – Weapon and Force Protection

David W. Corbett  
Director



Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000. SAND2011-6810C

# Sandia's history



# Sandia's governance structure

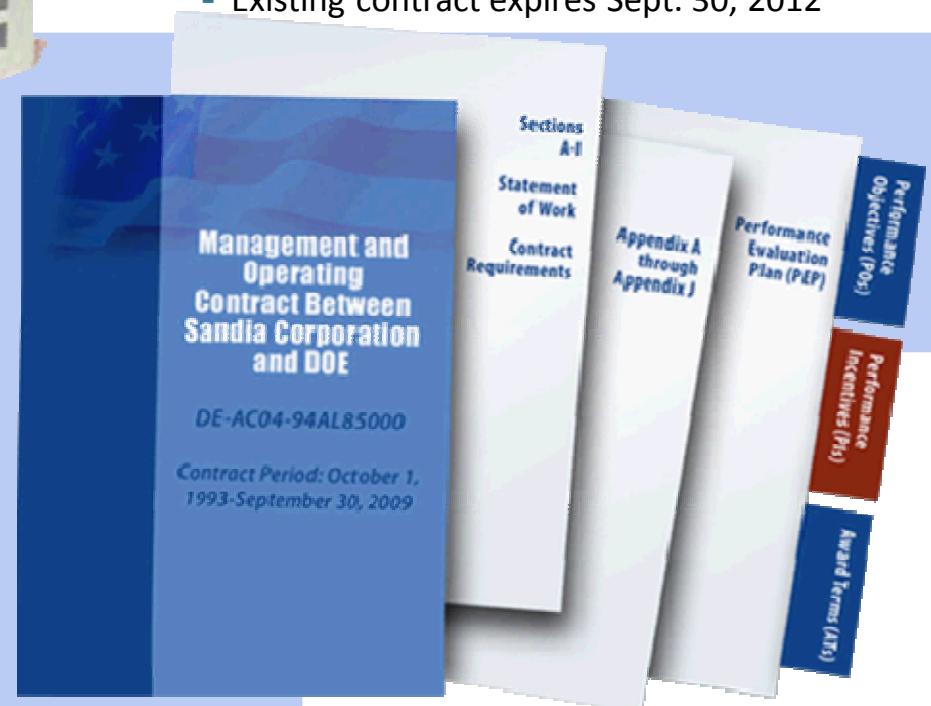


Government owned, contractor operated



## Sandia Corporation

- AT&T: 1949–1993
- Martin Marietta: 1993–1995
- Lockheed Martin: 1995–present
- Existing contract expires Sept. 30, 2012



Federally funded  
research and development center

# Sandia's sites

Albuquerque,  
New Mexico



Waste Isolation Pilot Plant,  
Carlsbad, New Mexico



Livermore,  
California



Tonopah, Nevada



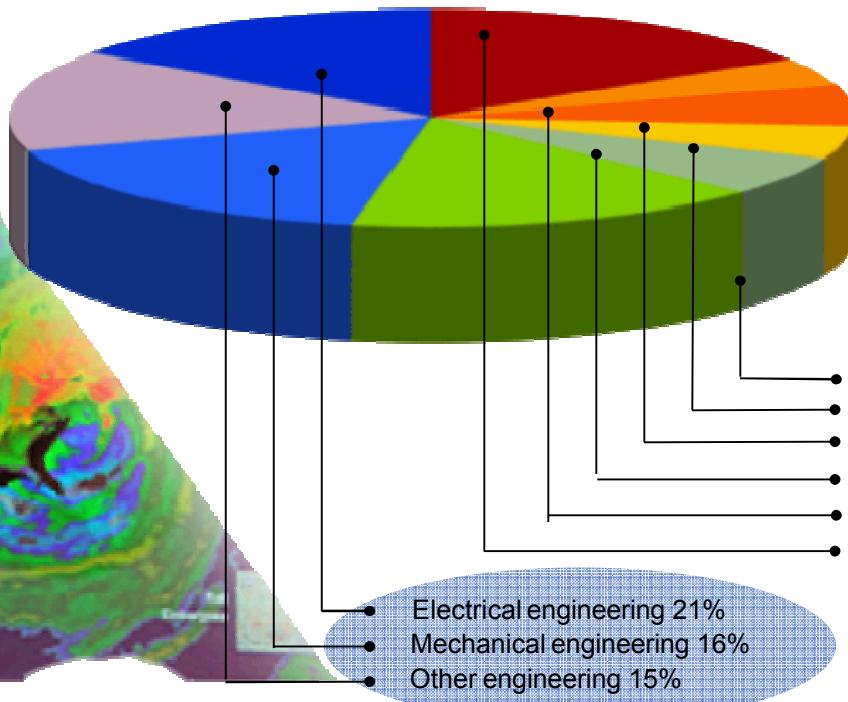
Pantex, Texas



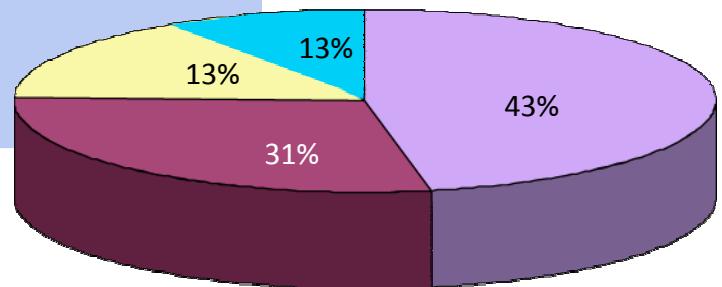
# Workforce and Budget

- On-site workforce: 11,677
- Regular employees: 8,607
- Gross payroll: ~\$900 million

Technical staff (4,277) by discipline:



FY10 operating revenue  
\$2.3 billion



Nuclear Weapons  
Defense Systems & Assessments  
Energy, Climate, & Infrastructure Security  
International, Homeland, and Nuclear Security



# Center 6500 – Weapon and Force Protection



Organization 6510

## Air Force Nuclear Security

Randy Peterson



Organization 6520

## Navy Nuclear Security

Jennifer Nelson



Organization 6530

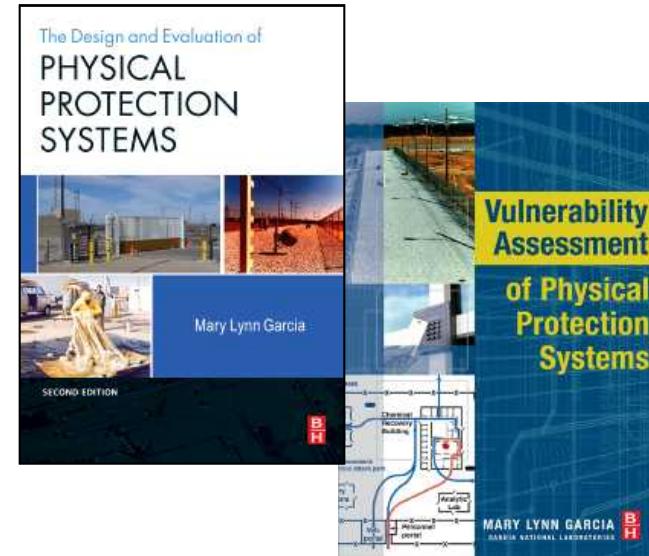
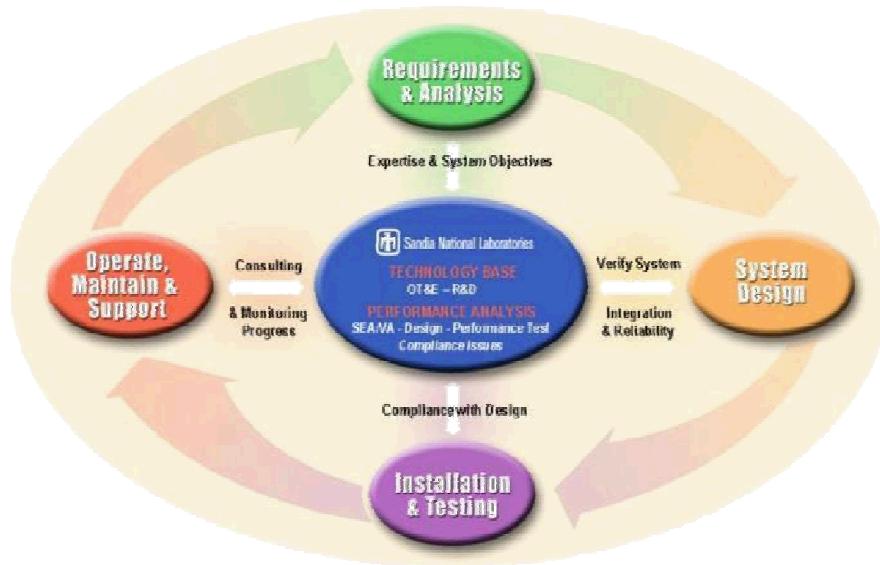
## Intelligent Systems, Robotics, and Cybernetics

Phillip Heermann



# Physical Security

# Physical Security - Model of Success



Systems Engineering = Optimized Performance

Honest Broker = Long-Standing Governmental Partnerships  
*“System Performance is our focus....no loyalty to industry or profit”*

Sandia provides world-wide security training  
*“We write the books on Security”*



# Physical Security Methodology

*Balanced Approach  
for Optimal Security*



## DETECTION



## DELAY

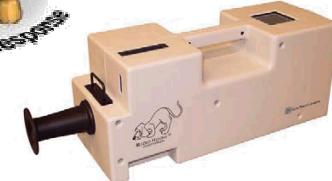
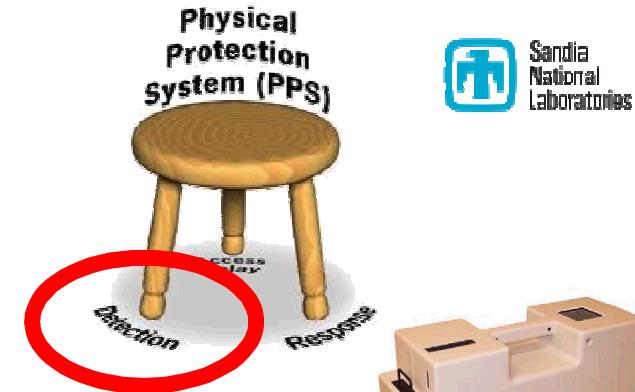


## RESPONSE



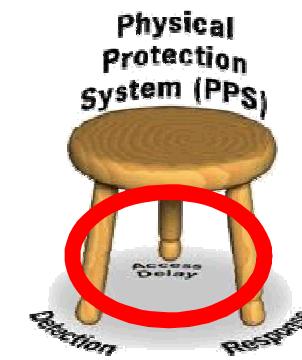
# Detection Subsystems

- Microwave
- Infrared
- Vibration
- Fiber Optics
- Sniper
- CBRNE, Cyber
- Early Warning
- Virtual Perimeter
- Video Motion Detectors



# Delay Subsystems

## ■ Passive and Active

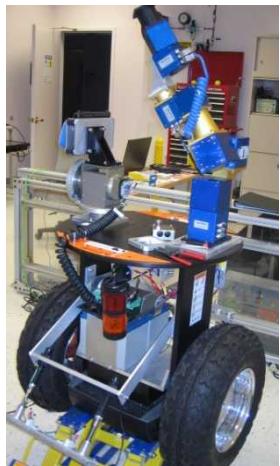
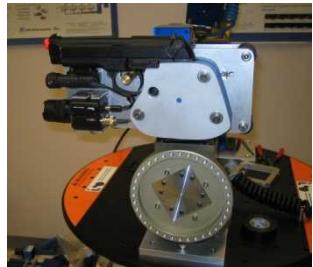


# Response Subsystems

- Training
- Response Time



Physical  
Protection  
System (PPS)



# Intelligent Systems, Robotics, and Cybernetics

# Sandia's Expertise

- Advanced Controls
- Enhanced Perception
- Cybernetics
- Innovative Mechanical Design
- Robust Manipulation
- Unique Mobility
- Fail-Safe Design and Integration

