

Overview of National Security Programs

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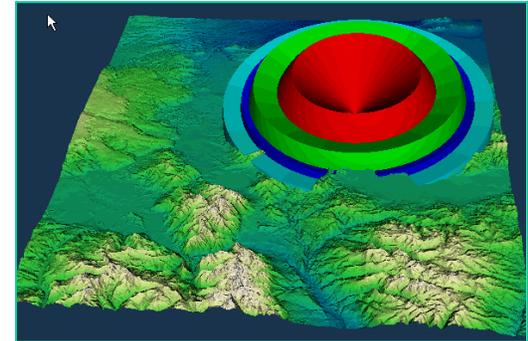
Homeland Defense

- Critical Infrastructure Assurance Initiative
 - Critical Infrastructure Test Range
 - SCADA (Supervisory Control and Data Acquisition) Testbed
 - Next Generation Wireless Testbed
 - Cyber Security Testbed
 - Weapons of Mass Destruction Emergency Response Training
 - Physical Security



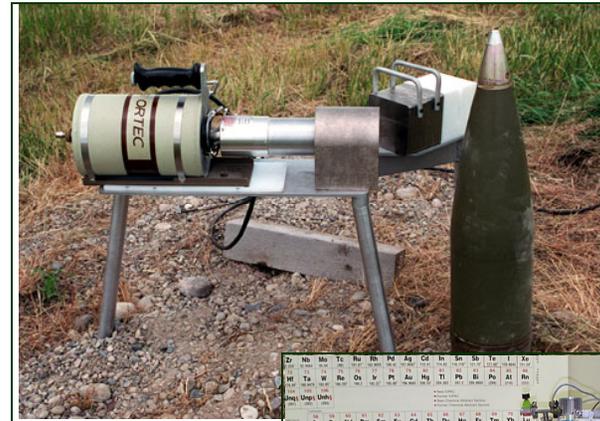
Defense Support

- Munitions Assessment Systems
- Command and Control
- Modeling, Simulation and Mission Planning
- Light Weight Armor



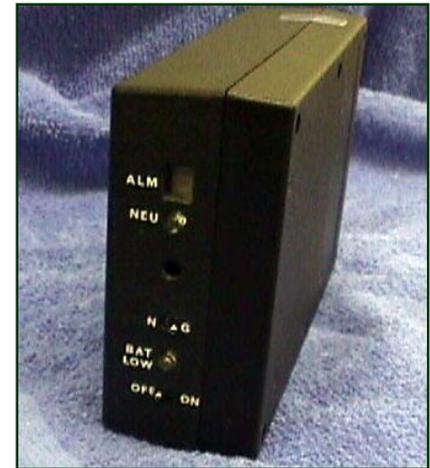
Nonproliferation

- International Threat Reduction and Environmental Security Programs
 - Initiative for Proliferation Prevention
 - Radiation Dispersal Device
- Sensor Development
 - Portable Isotopic Neutron Spectroscopy
 - Secondary Ion Mass Spectrometry
- Nuclear Materials Detection



Intelligence Support

- Support to DOE Office of Intelligence and the Intelligence Community
- Rapidly growing program resulting from an excellent reputation in the Intelligence Community
- Leverage research from broad range of INEEL core capabilities



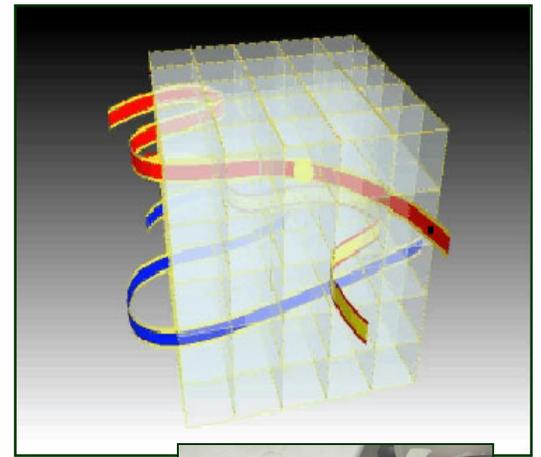
Cross Cutting Research and Development

Brucella DNA Signatures

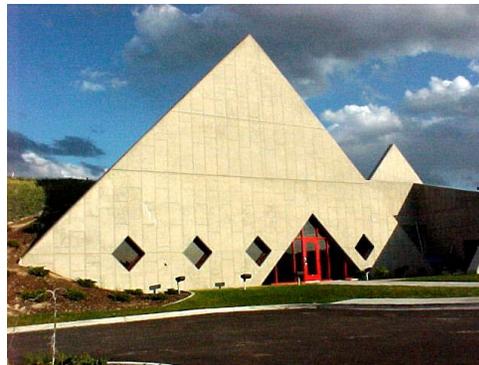


Advanced Control Architecture for Small and Micro-Robots

Lithium Ion Battery Development



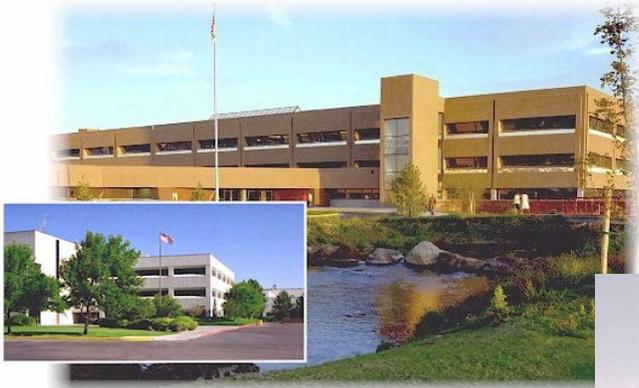
Idaho Accelerator Center



Detection Systems



Infrastructure



Recent Accomplishments

- Received initial \$3M to establish critical infrastructure test range
- Wireless Testbed operational
- Delivered five Mobile Munitions Assessments Systems to the Army in extremely short time frame
- Established Weapons of Mass Destruction Training Program
- Successfully coordinated the “International Conference on Security of Radiation Sources” in support of the International Atomic Energy Agency



Near Term Goals

- Apply laboratory capabilities in support of National and Homeland Security
- Establish a national critical infrastructure protection test range
- Establish long-term viability of the SCADA test bed
- Establish onsite linear accelerator based cargo inspection capability
- Develop a physical security program
- Establish Vulnerability Assessment Training Center of Excellence
- Establish long term viability of the National Security Materials Science Research Programs



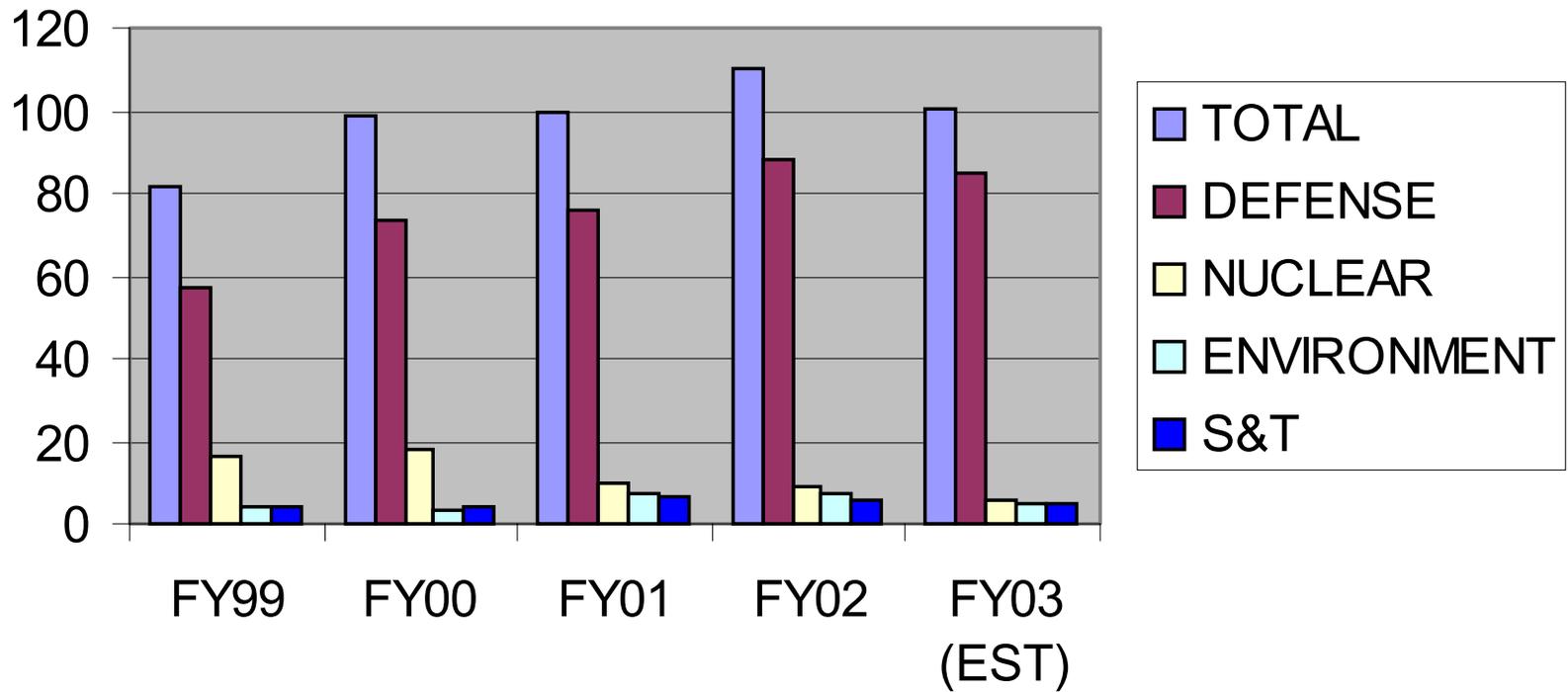
Long Term Goals and Challenges

- Develop a Suite of Sustainable Programs That Provide a Future Foundation for the Development of the INEEL as a National Critical Infrastructure Protection Test Range
- Develop and Maintain Relationships with the National Security Customer Base That Enables the INEEL to Anticipate Future Technology Needs and to Bring the Full Resources of the INEEL to Bear in Meeting Their Needs
- Develop and Maintain Preeminent National Security Programs Using the Entire Resources of the INEEL to Build Upon Current Programs and Projects to Provide Solutions to Critical National and International Security Challenges



Work for Others (WFO)

WFO ANNUAL BUDGET (MILLIONS)



Summary

- The INEEL has established a focused National Security Program
- Critical Infrastructure Assurance Program has created a recognized niche in support of Homeland Security
- National Security Programs will continue to be important to the success of the Idaho National Laboratory

