



---

---

## *Welcome*

**International Biological Threat Reduction Department  
Sandia National Laboratories  
October 15, 2006**

**Managing a Laboratory Biosecurity Program  
ABSA pre-conference course**

[www.biosecurity.sandia.gov](http://www.biosecurity.sandia.gov)

---

---

## Course Overview

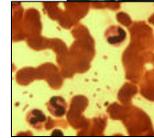
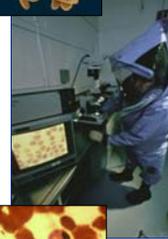
- **Risk Assessment as a Foundation for Laboratory Biosecurity**
  - Risk assessment and risk management key to developing a sustainable biosecurity program
- **Case Studies**
  - **Case 1: Risk Assessment and Risk Management**
  - **Cases 2 – 4: Resolving Potential Conflicts Between Biosafety and Biosecurity**
    - Signage
    - Emergency Response
    - Emergency Egress and Alarms
    - Keys/Badges and Contamination
- **Putting It All Together: Program Management**

## Laboratory Biosafety and Biosecurity

- **Laboratory Biosafety**
  - Objective: reduce or eliminate accidental exposure to or release of potentially hazardous agents
- **Laboratory Biosecurity**
  - Objective: protect biological agents against theft by those who intend to pursue bioterrorism or biological weapons proliferation
- **Common strategy**
  - Implement graded levels of protection based on a risk management methodology
- **Control of certain biological materials is necessary, but *how* that is achieved must be carefully considered**
  - Biosafety and biosafety should be integrated systems that avoid compromising necessary infectious disease research and diagnostics



*Francisella tularensis*



*Yersinia pestis*

3

## Resources to be Discussed

- **Questionnaires to help with Risk Assessment**
  - Law Enforcement questionnaire
  - Guard Force questionnaire
  - Site Evaluation questionnaire
- **Select Agent Security Plan Template**
- **Example Memorandum Of Understanding with Local Law Enforcement**
- **Example Testing Protocol for Access Control System**
- **Example Data Sheet for Testing Access Control System**

4

## Additional Resources

---

---

- WHO Laboratory Biosafety Manual – 3<sup>rd</sup> edition
  - Chapter 9: Laboratory Biosecurity Concepts
- WHO Guidance on Laboratory Biosecurity – anticipated Fall 2006
- Biosafety in Bioscience and Medical Laboratories (BMBL) – 5<sup>th</sup> edition, anticipated Fall 2006
- Laboratory Biosecurity Handbook, CRC Press, forthcoming
- <http://hazmat.dot.gov>

5

## Contact Information

---

---

Jennifer Gaudioso, Ph.D  
(505) 284-9489  
[jmgaudi@sandia.gov](mailto:jmgaudi@sandia.gov)

Paula Austin  
(505) 844-4272  
[paustin@sandia.gov](mailto:paustin@sandia.gov)

Sandia National Laboratories  
PO Box 5800, MS 1371  
Albuquerque, NM 87185  
USA

[www.biosecurity.sandia.gov](http://www.biosecurity.sandia.gov)

6