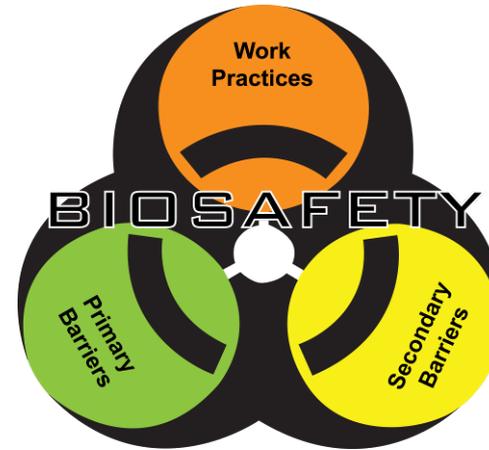
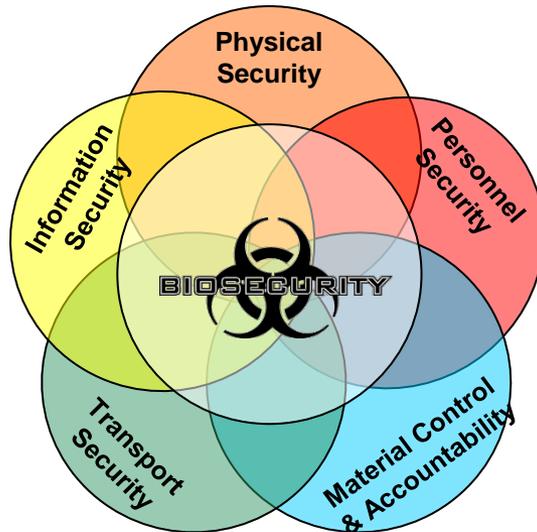




Program Management



Controlling Laboratory Biorisks Training Course

International Biological Threat Reduction Program

Global Security Programs

Sandia National Laboratories

Albuquerque, NM USA



SAND No. 2008-0480P

Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000.



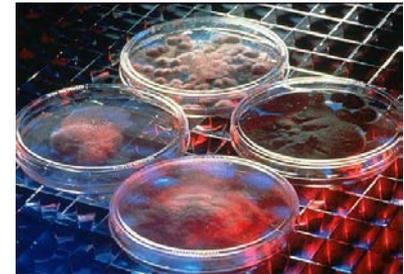
Learning Objectives

- **Be able to discuss the tradeoffs and implementation of measures based on different risk levels.**
- **Stress the importance of Program Management in a laboratory**
- **Describe specific laboratory roles and responsibilities**



What is Program Management?

- **A laboratory program which seeks to effectively and efficiently manage an institution's laboratory biorisks**
- **Effective program management is central to the success of implementing biosafety and biosecurity in any laboratory!**
- **Laboratory biorisk management programs need:**
 - Resources
 - Institutional guidelines and operating procedures
 - Training
 - Oversight





Common Concerns with Implementing Program Management

- How do you allocate scarce resources?
- What do you address in operating procedures?
- Which training is required and for whom?
- What level of oversight is appropriate?

It Depends on the Risk Assessment!!



Roles and Responsibilities

- **In your group, identify the responsibilities for your assigned role**
 - Senior Management
 - Biorisk Management Committee (Institution Biosafety Committee)
 - Biorisk Management Advisor (Biosafety or Biosecurity Officer)
 - Scientific Management (Principle Investigator)



Biorisk Management Systems Approach

- All rely on a “Plan-Do-Check-Act” approach with the goal of continuous improvement
- **Plan**
 - Planning, including identification of hazards and risks and establishing program goals
- **Do**
 - Implementing, including training and operational issues
- **Check**
 - Checking, including monitoring and corrective action
- **Act**
 - Reviewing, including process innovation and acting to make needed changes to the management system.



AMP Model

Biorisk Management
Assessment Mitigation **Performance**



Learning Objectives

- **Be able to explain the importance of performance measures and how to use them effectively.**



What is Performance?

- **Performance is the way in which someone or something functions**
- **Performance is the result of all the efforts of a company or organization**
- **Performance improves biorisk management: you know that your system works and is sustainable, and that the risk is acceptable**



System Effectiveness:

- **In your group define the following type of performance indicators:**
 - Management performance indicators
 - Operational performance indicators
 - Biorisk status indicators
- **Identify what verification or performance indicators might be used to measure the effectiveness of a facility's risk management system?**
 - Management performance indicators?
 - Operational performance indicators?
 - Biorisk status indicators?
- **Can the same metrics be used for biosafety and biosecurity?**