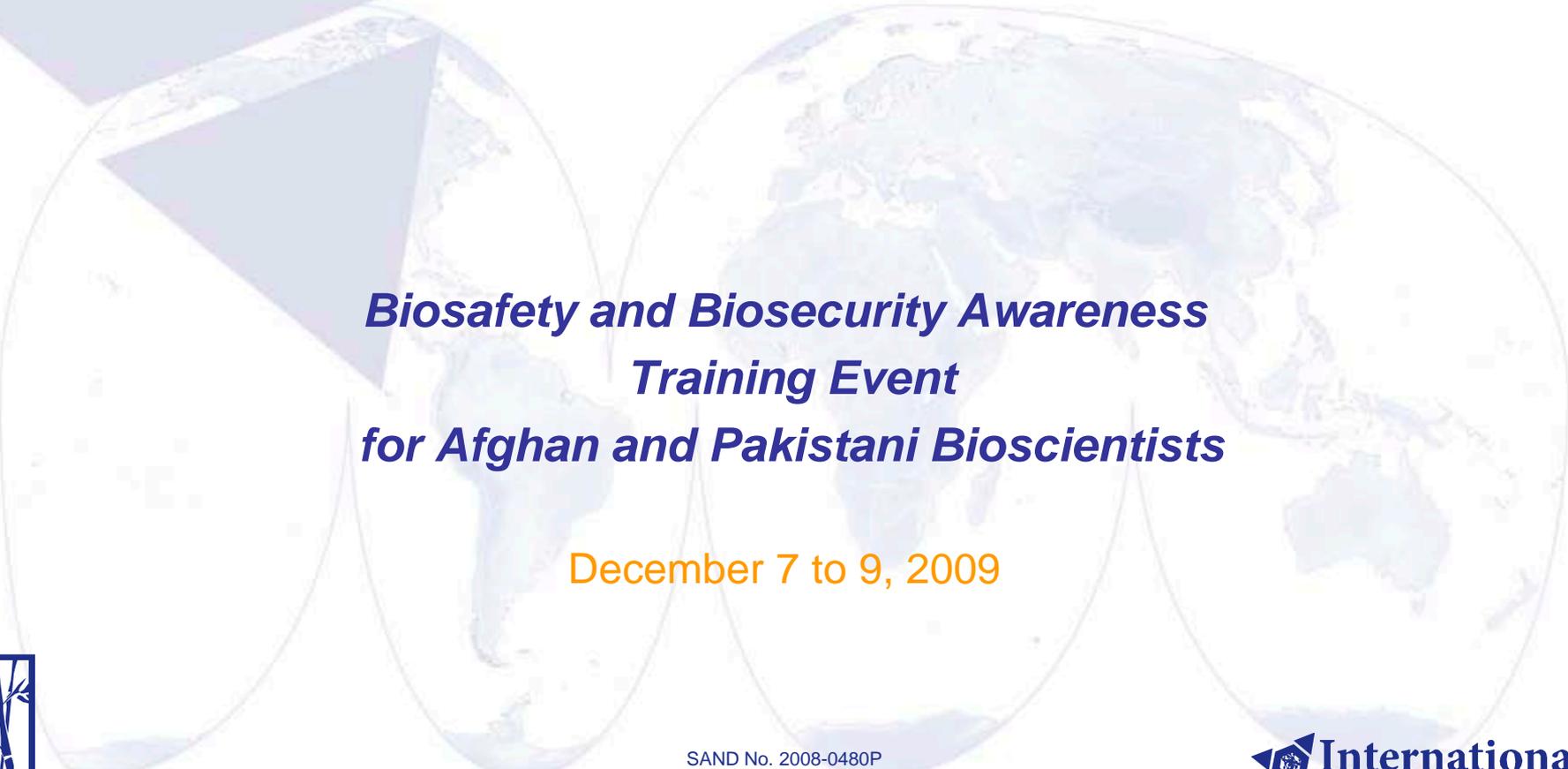




Course Introduction



Biosafety and Biosecurity Awareness Training Event for Afghan and Pakistani Bioscientists

December 7 to 9, 2009

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.

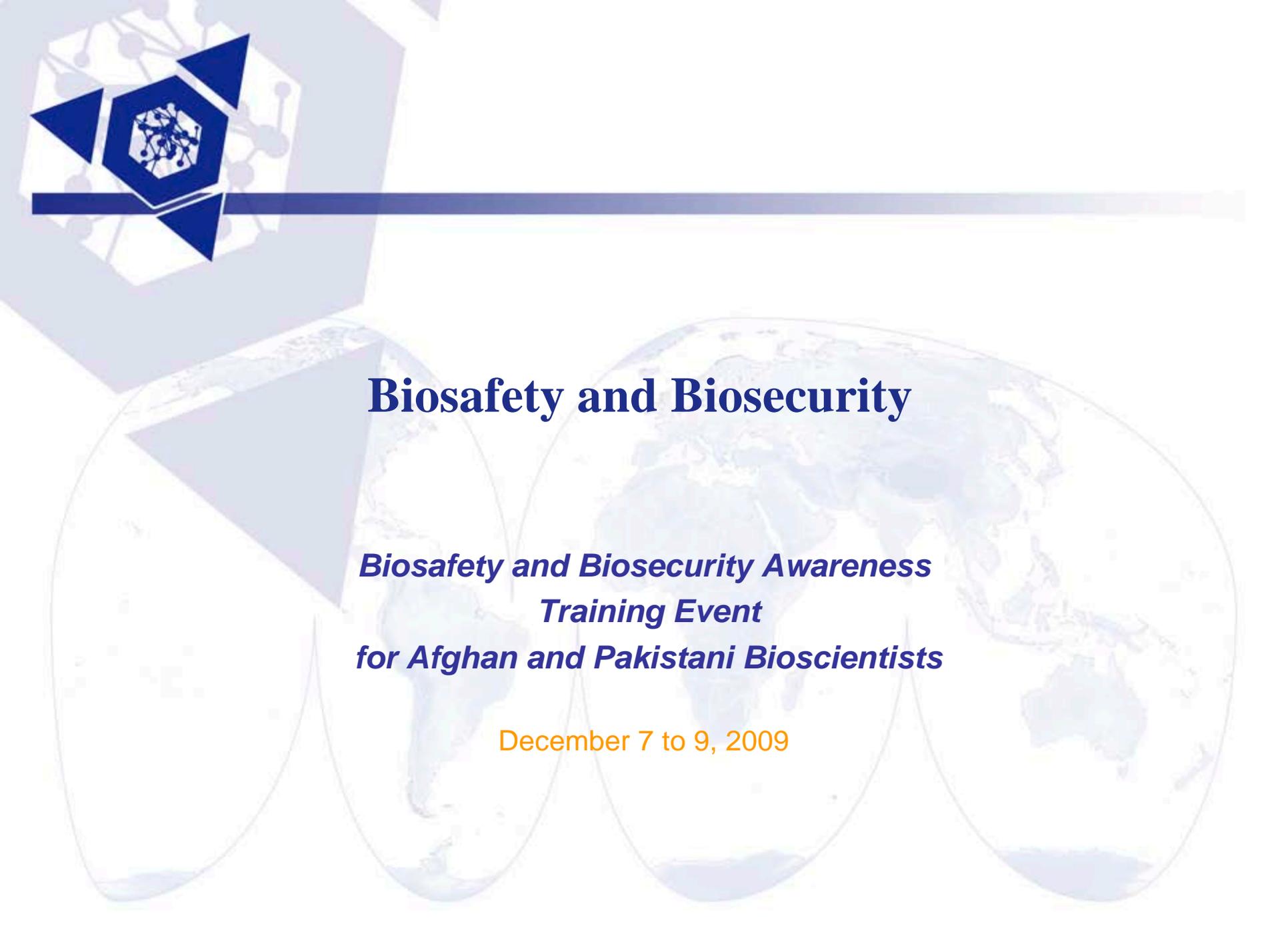




Course Outline

Course will include lecture, discussion, and activities

- **Key Modules include:**
 - Principles of Biosafety and Biosecurity
 - Introduction to Biorisk management
 - Introduction to Risk Assessment
 - Discussions on South Asian diseases and laboratory needs
 - Introductions and demonstrations on Biorisk mitigation measures
- **This course is an introduction and summary of the key concepts**



Biosafety and Biosecurity

***Biosafety and Biosecurity Awareness
Training Event
for Afghan and Pakistani Bioscientists***

December 7 to 9, 2009



Biosafety

- **What is Biosafety?**
- **Where do we do biosafety?**
- **Why do we do biosafety?**
 - Who/What is it protecting?



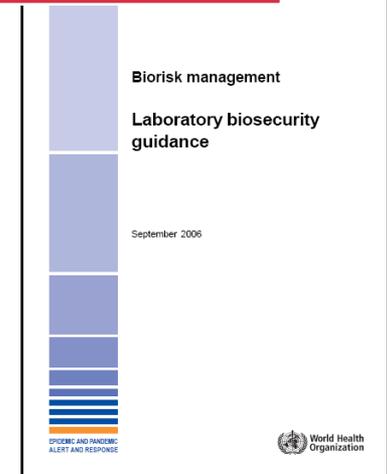
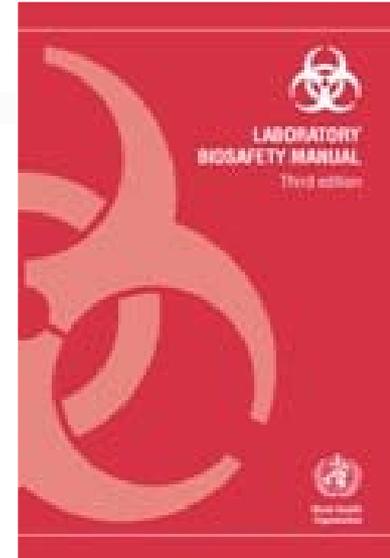
Biosecurity

- **What is biosecurity?**
- **Where do we do biosecurity?**
- **Why do we do biosecurity?**
 - Who/What is it protecting?



A Focus on the Laboratory

- **Laboratory Biosafety**
 - A set of preventive measures designed to reduce the risk of accidental exposure to or release of a biological agent
- **Laboratory Biosecurity**
 - A set of preventive measures designed to reduce the risk of intentional removal (theft) and misuse of a biological agent – intent to cause harm
- **Fundamentally, there are risks to working with pathogens and toxins**





Questions to Think About

- **What are the primary reasons for implementing biosafety?**
- **What are the primary reasons for implementing biosecurity?**
- **Whose role is it to determine what mitigation measures are needed?**
- **Whose role is it to determine what type and how much mitigation is needed?**
 - How do you decide what type and how much mitigation is needed?

Strengthening Biological Risk Management



Vision for Integrated BioRisk Management:

- ✓ Increased focus on "awareness" to change current culture
- ✓ Clarify terminology
- ✓ Development of targeted "training strategies"
- ✓ Securing "commitment" from key stakeholders, including government officials, who must be on board
- ✓ Continue increasing "capacity" based on Regional/Country needs and establish accountability through development of Country "report cards"