



ABSA
54th Annual
Biological Safety Conference
Anaheim Marriott Hotel
Anaheim, California
October 27 - November 2, 2011
www.absa.org

Non-Biologists Practicing Biology: *New Threat or Opportunity*

David H. Silberman
Director, Health and Safety Programs
Stanford University School of Medicine

November 1, 2011

Presentation Outline

Just Three Topics

1. Introduction to the Issue
2. The Reality of the Issue
3. What Can Be Done And How To Do It

Collaborations

- Encouraged Among All Scientific Disciplines
- Increasing in Numbers
- Broadening in Breadth and Depth
- Happening at Increasing Rates

A Good Thing

BUT

In Less Than Three Weeks

Two Needlesticks



PI Background: Aeronautical Engineering

In Less Than Three Weeks

One Biosafety Cabinet Fire



PI Background: Chemical Engineering

In Less Than Three Weeks

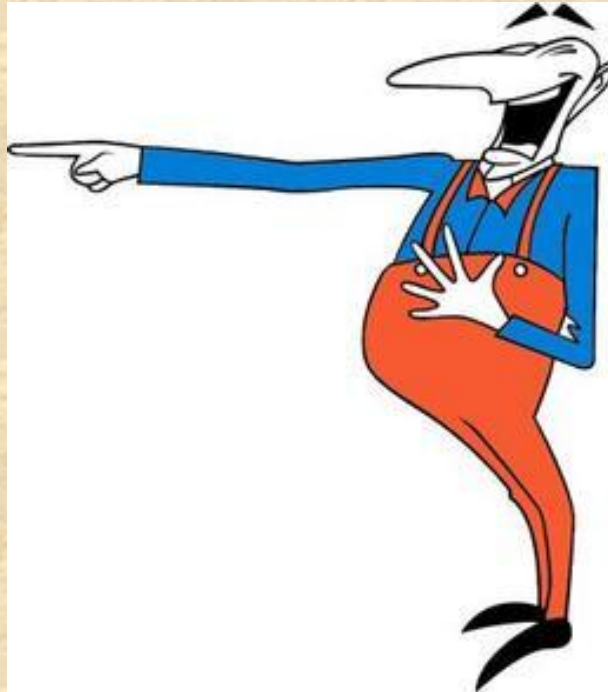
One Cal/OSHA Inspection



PI Background: Chemist

In Less Than Three Weeks

Biosafety Protocol Ridiculed in Committee



PI Background: Electrical Engineer

What To Do ?

- Obvious Need For Engagement, But How ?
 - Looking at “new” PIs can provide a clue
 - First need to know who they are and when they can be expected to arrive
 - Find allies among administrative groups within your institution who can provide this information

October 12, 2011 3:53 PM

Acting appointment

From: Lawrence C. Spencer

To: "Jessica Campbell Olson" <jolson1@stanford.edu>; "Joseph Clark" <clarkjt@stanford.edu>

Cc: jpcain; rrobinso@stanford.edu; kwarmoth@stanford.edu; Nancy M Winningham; skingston@stanford.edu; "Chia-Yu Chan" <chiayuc@stanford.edu>; Kelli Nicholas; "Ann Bjelland" <bjelland@stanford.edu>; sherril@stanford.edu; silberman

This is to notify you that Dr. Stevenson has approved the appointment of

Dr. Kathleen Sakamoto

To Acting Professor of Pediatrics, effective 11-7-11 to 11-6-12

The position number (Acting) is 53063

If your candidate will require animal care and you have not already done so, please contact Dr. Sherrill Green, Professor and Chair of Comparative Medicine, ASAP.

David (Silberman), I believe there is a lab component.

Among the first steps

Craig Spencer

Academic Affairs Manager, Office of the Dean

Medical School Office Building

251 Campus Drive, Room X143

Stanford, CA 94305-5460

Mail Code: 5460

Stanford University School of Medicine, Stanford, CA 94305-5460

Phone: 650-498-4577 Fax: 650-498-4072

<http://www.med.stanford.edu/academicaffairs/> (website)

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Even Before They Arrive

- “Look Them Up”

What Is UCLA Health System?

Hospitals & Medical Offices

Medical Departments

For Patients and Visitors

For Healthcare Professionals

Search our **PHYSICIAN DIRECTORY**



Kathleen Sakamoto, MD, PhD

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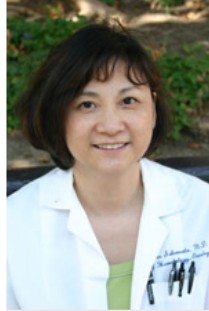
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Physician Directory

- › Physician Referral Service 1-800-UCLA-MD1
- › Cancer Specialists
- › Pediatric Physicians
- › Primary Care Physicians by Location
- › Primary Care Physicians by Specialty
- › Voted Best Doctors
- › Voted Super Doctors

Kathleen Sakamoto, MD, PhD



Specialty
Pediatric Hematology-Oncology

Gender **Language Spoken**
Female English

State License Number
G58328

Contact
(310) 825-6708 Information and referral

Email Address
kms@ucla.edu



PRACTICE LOCATION

UCLA Children's Health Center
200 UCLA Medical Plaza Suite 265
Los Angeles, CA 90095

MEDICAL BOARD CERTIFICATION

Pediatric Hematology-Oncology, American Board of Pediatrics, 1992, 2007
Pediatrics, American Board of Pediatrics, 1989, 2007

EDUCATION

Fellowship
Pediatrics/Hematology-Oncology, Childrens Hospital of Los Angeles, 1988 - 1991

Residency
Pediatrics, Childrens Hospital of Los Angeles, 1986 - 1988

Internship
Pediatrics, Childrens Hospital of Los Angeles, 1985 - 1986

Medical Degree
MD, University of Cincinnati College of Medicine, 1985


Even Before They Arrive

- Get To Know Their Research Interests
- Get To Know Their Backgrounds
- Look for Clues on Their Web Sites
 - Preferably at Their Current Institution
 - Check Their cv's



CLUES


STANFORD MEDICINE Getting Care ▾ Research ▾ Education & Training ▾ Community ▾ About Us ▾ STANFORD UNIVERSITY

 **STANFORD** | Community Academic Profiles

Alumni : Lane Library : Ways to Give


Education **Research** **Patient Care** **Community** **Departments & Institutes** **Find People** **Administration**


School of Medicine » Community Academic Profiles


COMMUNITY ACADEMIC PROFILES Stanford-only view 

Professional Overview

Professional Education

Ph.D.: Stanford University, Aeronautical Engineering 

M.S.: Stanford University, Aeronautical Engineering 

B.S.: University of Pennsylvania, Mechanical Engineering 

Outreach

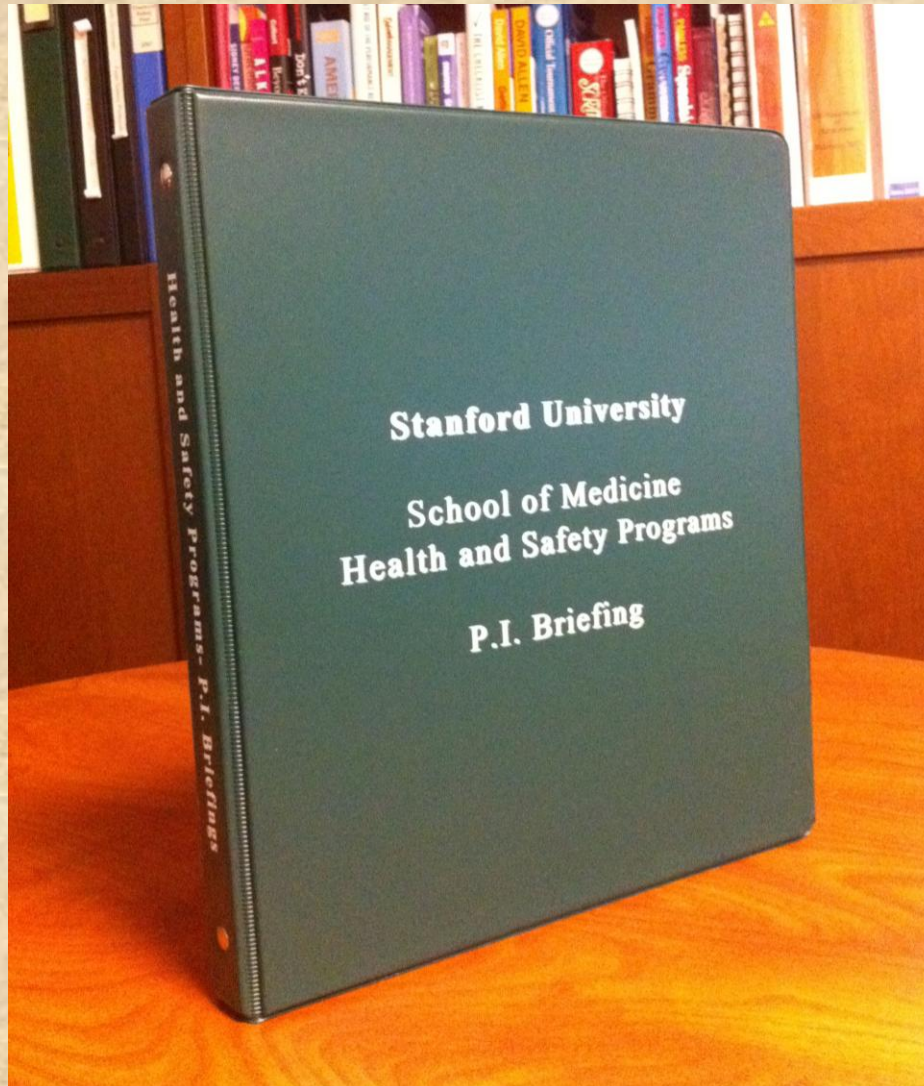
- Arrange for an informal “briefing”
 - Learned that “orientation”, “training” are really four letter words in PI vocabulary... don’t use them.
 - Offer to do a *before, during, and after* survey of their labs
 - But most importantly, make sure you get them to agree to a *Briefing*



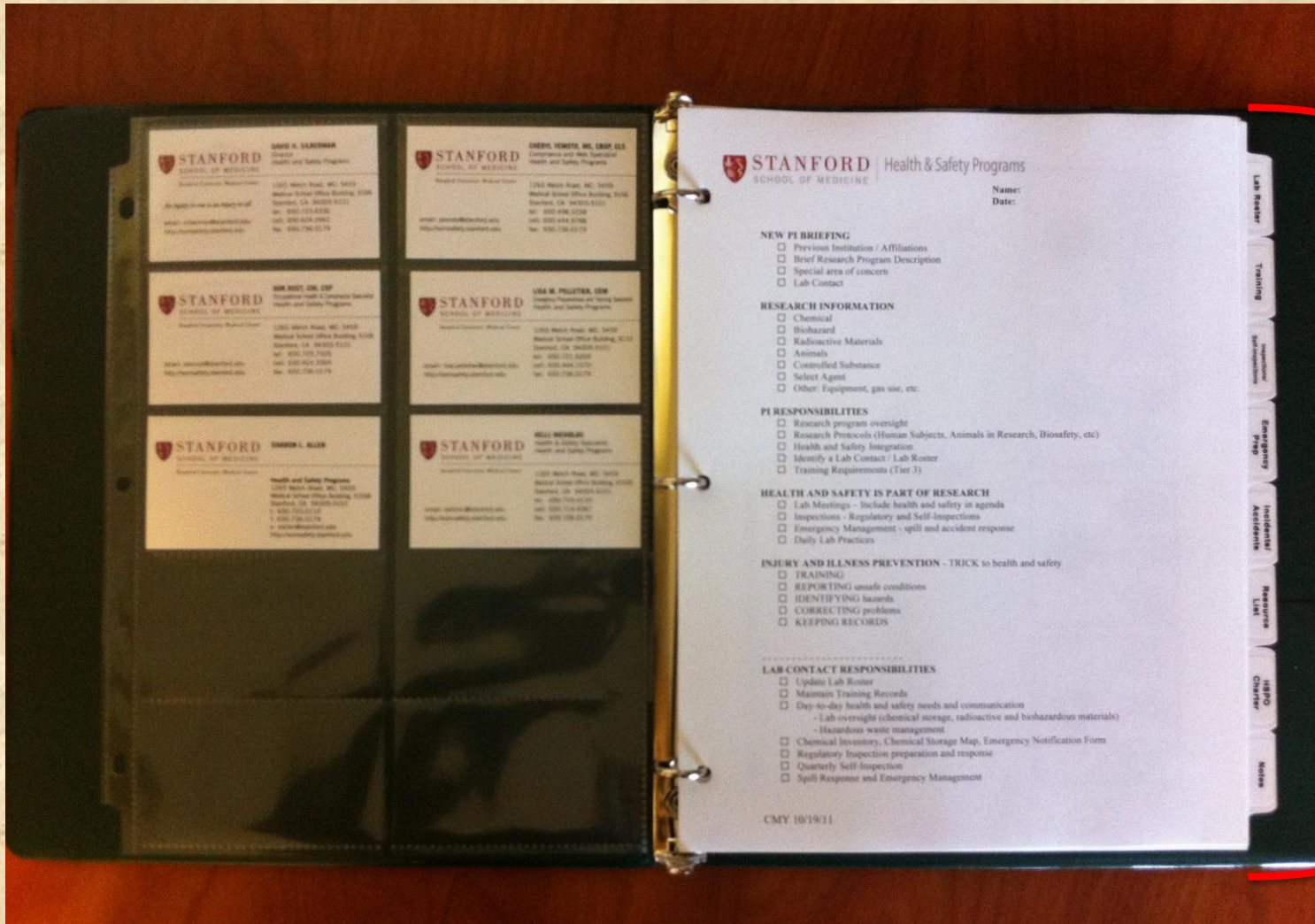
LAB

NEW PI
ORIENTATION

Principal Investigator Briefing



The Inside Scoop



Note Tabs



Name:

Date:

NEW PI BRIEFING

- Previous Institution / Affiliations
- Brief Research Program Description:
- Special area of concern
- Lab Contact:

RESEARCH INFORMATION

- Chemical
- Biohazard
- Radioactive Materials
- Animals
- Controlled Substance
- Select Agent
- Other: Equipment, gas use, etc.

PI RESPONSIBILITIES

- Research program oversight
- Research Protocols (Human Subjects, Animals in Research, Biosafety, etc)
- Health and Safety Integration
- Identify a Lab Contact / Lab Roster
- Training Requirements (Tier 3)

HEALTH AND SAFETY IS PART OF RESEARCH

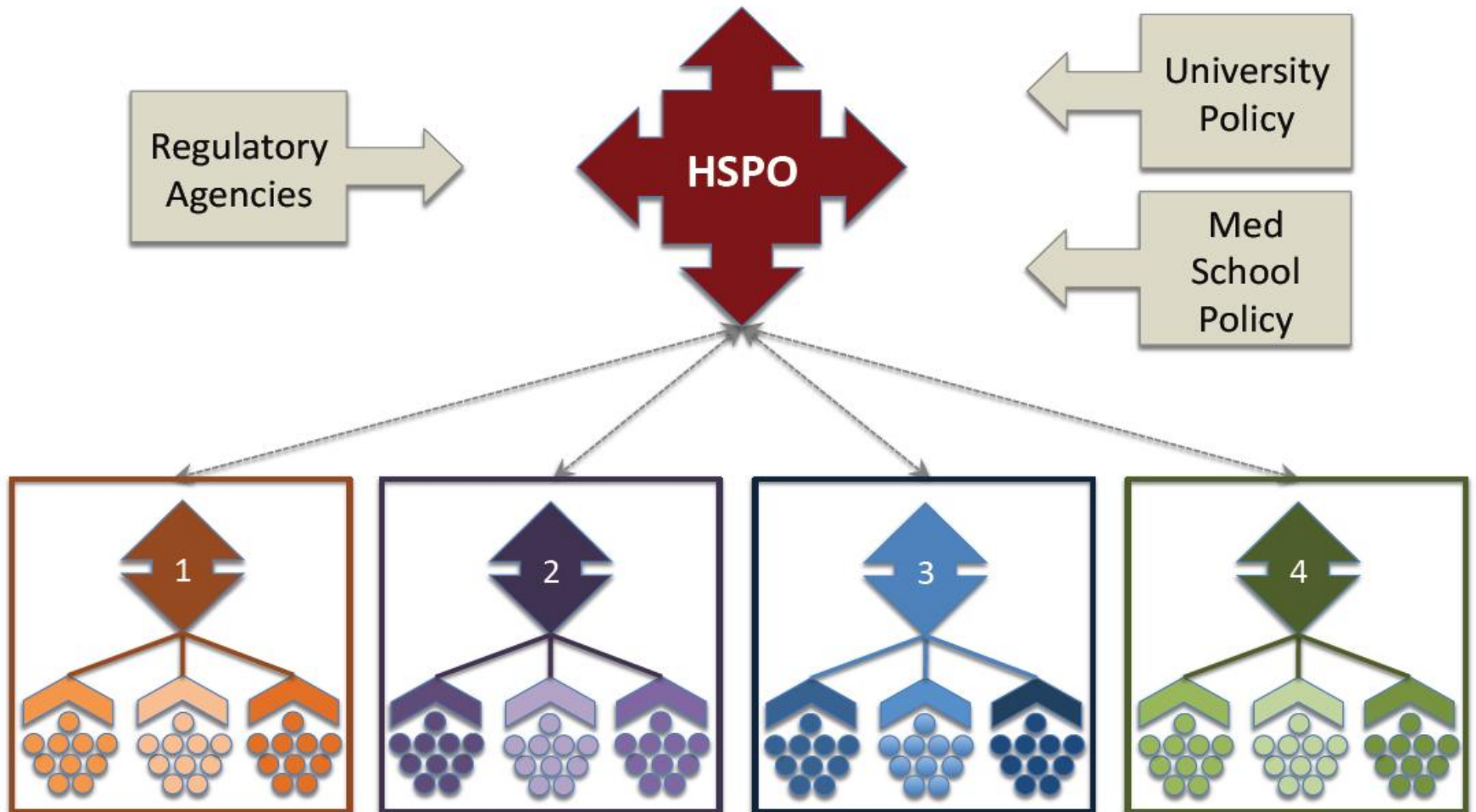
- Lab Meetings – Include health and safety in agenda
- Inspections - Regulatory and Self-Inspections
- Emergency Management - spill and accident response
- Daily Lab Practices

INJURY AND ILLNESS PREVENTION - TRICK to health and safety

- TRAINING
- REPORTING unsafe conditions
- IDENTIFYING hazards
- CORRECTING problems
- KEEPING RECORDS

LAB CONTACT RESPONSIBILITIES

- Update Lab Roster
- Maintain Training Records
- Day-to-day health and safety needs and communication
 - Lab oversight (chemical storage, radioactive and biohazardous materials)
 - Hazardous waste management
- Chemical Inventory, Chemical Storage Map, Emergency Notification Form
- Regulatory Inspection preparation and response
- Quarterly Self-Inspection
- Spill Response and Emergency Management



School of Medicine



Health and Safety Programs Office

- Training information
- Chemical inventory / LSB
- Self-Inspection program
- Regulatory inspection process
- School Emergency Management (SOC)

Department



DFA, Chair

- Lab Roster / Updated Training Log
- Verify Chemical inventory / LSB updates
- Verify Self-Inspection Summary
- Regulatory inspection reports/response
- Department Emergency Plan & Drills

Laboratory

PI

Lab Contact

Researchers



Lab operations oversight

- Maintain Lab roster
- Maintain Training records
- Chemical inventory
- Life Safety Box updates
- Complete Self-Inspections
- Regulatory inspection preparation

Lab work practices

Emergency situations

- Critical Equipment, Data & Specimens



Practice Safe Science

The School of Medicine's Health and Safety Programs Office works for you and your department.

Our web site is designed to communicate information about safety in laboratories and offices, explain the School's emergency preparedness program, offer strategies for regulatory compliance and provide resources to help you work safely.

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MESSAGE BOARD

Special Notices

Self-Inspections

Q3 Lab/Shop Inspection - Self-Inspection information has been sent to Dept-level contacts. Departments/Labs need to complete workspace walk-through by September 30, 2011.

Inspections

HSPO Webinar

October, 2011 Webinar has been canceled.

[Link to MedMeeting](#)

9-1-866-642-1665

Participant Passcode 111483

*6 to mute or un-mute

Chemical Inventory

Don't forget to update your Emergency Notification Form and Chemical Storage Map!

Training

Bloodborne Pathogen Initial and Annual Refresher Training

Need Training?

OBI Reports for Training Coordinators

Emergency Prep

Emergency Plan Update for 2011 -

Due by April 15, 2011

Physician Disaster Cards

Emergency Notification Procedures -

Review and print new flier!

Last update 10/03/11 @ 16:00



Environmental, Health & Safety Training Advisor For Laboratory Employees and Support Staff

This document is designed to identify required safety training for Stanford staff, faculty and students who work in or around laboratories. Trainees should complete this form and discuss the results with their supervisor. Please be aware that there may be additional, local training (Tier III) required based on your job duties. Discuss the need for Tier III training with your supervisor. Questions about required training can be directed to the Environmental Health & Safety Training & Communications Office at 723-0448 or refer to our website at <http://ehs.stanford.edu>. Answer ALL questions below!

Employee Name: _____ SU ID: _____ Date: _____

Supervisor Name: _____ SU ID: _____ Date: _____

1. Have you already completed the Training Advisor document "General Safety training for all staff?"	<input type="checkbox"/> YES ⇨ Good <input type="checkbox"/> NO ⇨ Complete the form first!
If NO, you need to complete the Training Advisor document "General Safety Training for all staff."	
2. Are you responsible for Health & Safety compliance in your laboratory?	<input type="checkbox"/> YES ⇨ Take EHS-5200 <input type="checkbox"/> NO ⇨ No action required.
If YES, you need to take the classroom course "Orientation for Lab Safety Coordinators", EHS-5200. Contact EH&S at 723-7467 to request training.	
3. Do you work with chemicals in the lab?	<input type="checkbox"/> YES ⇨ Take EHS-1900* <input type="checkbox"/> NO ⇨ No action required.
If YES, you need to take the online course "Chemical Safety for Laboratories", EHS-1900.*	
4. Do you work with recombinant DNA and/or biological agents?	<input type="checkbox"/> YES ⇨ Take EHS-1500* <input type="checkbox"/> NO ⇨ No action required.
If YES, you need to take the online course "BioSafety", EHS-1500.*	
5. Do you work with blood, blood products or other potentially infectious materials?	<input type="checkbox"/> YES ⇨ Take EHS-PROG-1600* # <input type="checkbox"/> NO ⇨ No action required.
If YES, you need to take the online course "Bloodborne Pathogen Training", EHS-PROG-1600.* #	
6. Do you work with or handle compressed gases or gas cylinders?	<input type="checkbox"/> YES ⇨ Take EHS-2200* <input type="checkbox"/> NO ⇨ No action required.
If YES, you need to take the online course "Compressed Gas Safety", EHS-2200.	
7. Do you work with radionuclides or radiation producing equipment?	<input type="checkbox"/> YES ⇨ Take EHS-5250 <input type="checkbox"/> NO ⇨ No action required.
If YES, you need to take the classroom course "Radiation Safety Training", EHS-5250. To request training, contact Health Physics at 725-1471.	
8. Does your lab work routinely involve repetitive tasks with laboratory equipment (e.g., frequent pipetting, long hours at a microscope)?	<input type="checkbox"/> YES ⇨ Take EHS-4800* <input type="checkbox"/> NO ⇨ No action required.
If YES, you need to take the classroom course "Laboratory Ergonomics", EHS-4800.*	
9. Do you work with either a Class 3b or Class 4 laser or laser system?	<input type="checkbox"/> YES ⇨ Take EHS-4820 <input type="checkbox"/> NO ⇨ No action required.
If YES, you need to take the online course "Laser Safety", EHS-4820*	
10. Do you use vertebrate animals or their unfixed tissues, blood or body fluids in your research?	<input type="checkbox"/> YES ⇨ Take VSC-0001* <input type="checkbox"/> NO ⇨ No action required.
If YES, you need to take the classroom course "Laboratory Animal Care and Use", VSC-0001.*	
11. Will you manage the chemical inventory for your lab?	<input type="checkbox"/> YES ⇨ Take EHS-1800* <input type="checkbox"/> NO ⇨ No action required.
If YES, we recommend you take the classroom course "Chemical Inventory Management", EHS-1800.*	

More on other side ↓

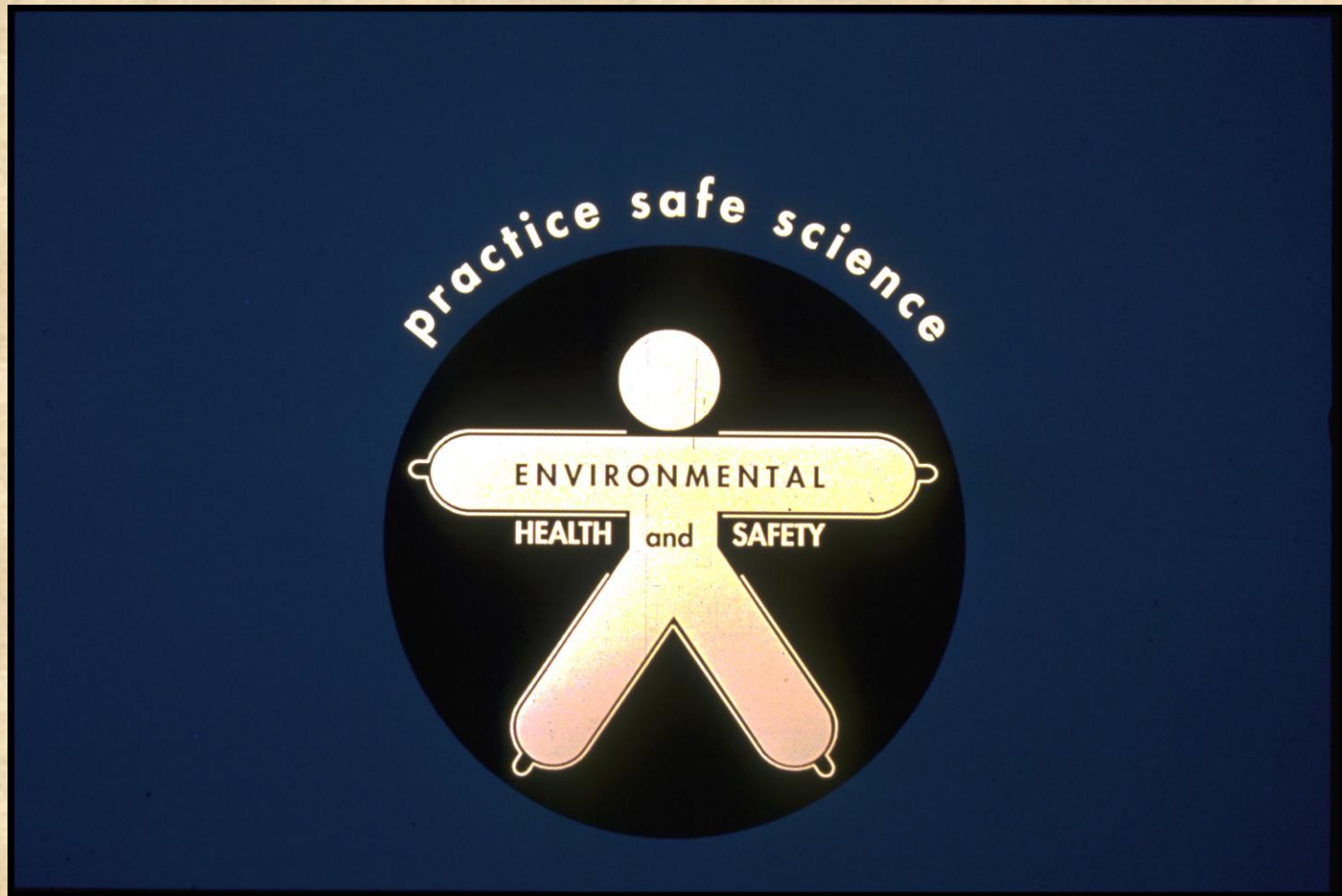
Intelligence Summary

- What have you learned from your interaction
 - Is more training required, and if so,
 - At what level; who needs to take it
 - Is the PI capable of ensuring safety of other lab personnel
 - What about equipment and space
 - Is sufficient safety equipment in place; is there enough room to conduct research safely
 - PPE Awareness
 - Miscellaneous Issues

What About “Old” PIs

- Basically, The Same Approach
- Establish a Meeting as a way to Reconnect
 - Provide information on new training, new regulations, helpful tidbits... food, whatever it takes.

The Bottom Line



Thank You!

Contact Information

David H. Silberman

Director, Health and Safety Programs
Stanford University School of Medicine

silberman@stanford.edu

650-723-6336

All You Need To Fix Anything

