Safety from “10,000 meters”

- Most KSU HEP work is at three different sites: Manhattan campus, Fermilab, and CERN
- Each has its own safety structure.
K-State Manhattan campus

General Safety Policies\(^1\):

- “Occupational safety and health is the responsibility of each employee at the university.”
- “In addition, each person of authority at the university is responsible for those employees under his or her supervision.”
- “This responsibility begins with the President and flows down to each person within the structure of the university.”

\(^{[1]}\) [http://www.k-state.edu/policies/ppm/3700/3720.html](http://www.k-state.edu/policies/ppm/3700/3720.html)
General safety responsibility structure
(conceptually like links on a chain)

President

People the President supervises

Department head

Professors

Students, postdocs, etc...

People who they supervise...
What you need to know at KSU (generalities)

- **There's no specific general safety training course to orient you to this.**
  The university policy simply says, in part:
  
  - “Under all circumstances, employees must be *properly trained* to perform their required tasks.”
  
  - “The Division of Public Safety in cooperation with the Campus Environmental Health and Safety Committee develops *guidelines*...”
  
  - **Each employee** is *responsible to know, understand and follow the guidelines* and should be continually on guard to prevent unsafe work practices.”
  
  - “The employee should *report to the Department Head* or Director any *work related accidents, near-accidents or occupational safety and health problems that need to be addressed.*”

- How are you supposed to do all this when there's no required training?
What you need to know at KSU
(practicalities)

- **Being properly trained**: You make sure your supervisor knows what you are doing, supervisor tells you about safety issues and required training.

- **Knowing guidelines**: They are at [http://www.k-state.edu/safety/safety/](http://www.k-state.edu/safety/safety/).
  
  - Official guidelines include Chemical Hygiene Program; Hazard Communication Program; Hazardous Waste Minimization Program; Hearing Conservation Program; **Good Laboratory Safety Practices**; Procedure for Handling Asbestos; **Radiation Safety Manual**; Respirator Program; Safety with Chemical Carcinogens in Research and Teaching; and Workplace Precautions for Bloodborne Pathogens.

  - You only need to know the ones that apply to your work – talk to your supervisor.

- **Training materials**: Some are at [http://www.k-state.edu/safety/safety/training/](http://www.k-state.edu/safety/safety/training/), and we also have some department-owned resources.
  
  - Possibly relevant ones include Chemical Hazcom Training, Hazardous Waste Training, **“Ergo Training”** (i.e., ergonomics), and **Radiation Safety** training (on department PCs).

- **Reporting accidents, near-misses, and issues to Department Head**: Simply tell Peggy or Amit by e-mail, phone, or in person.

If you work on a computer or at a desk a lot, see the **Ergo Training**.

In addition, we proactively require all HEP experimenters at KSU to take **Radiation Safety** training, even if their current research task doesn't require it.
FNAL and CERN

• Both have individual responsibility and lines of authority for safety, similar to KSU.
• Even when working there, you're still working for KSU.
• For the above two reasons, all the points on the previous slide apply (doubly).
• In addition, FNAL and CERN each have required general training for users.
What you need to know at FNAL (practicalities)

- **Being properly trained**: You make sure your supervisor knows what you are doing, supervisor tells you about safety issues and required training.

- **Where to find guidelines and other safety information**: They are at [http://esh.fnal.gov/](http://esh.fnal.gov/).

- **Training**: See the “Training Page” and your “ITNA” (Individual Training Needs Assessment), found on the page above.

We proactively require all HEP experimenters to take Radiation Safety training, even if their current research task doesn't require it. Fermilab's General Employee Radiation Training satisfies our requirement. It's online and takes 14 minutes. (I timed it.)
What you need to know at CERN
(practicalities)

- **Being properly trained**: You make sure your supervisor knows what you are doing, supervisor tells you about safety issues and required training.

- **Where to find guidelines and other safety information**: They are on the CERN HSE website: https://espace.cern.ch/hse-unit/en/Pages/default.aspx

- **Training**: Follow the Safety Training & Awareness link on the page above.

We proactively require all HEP experimenters to take **Radiation Safety** training, even if their current research task doesn't require it. There are two possibilities at CERN: "RP Training for CERN Supervised Radiation Areas" (e-training through sir.cern.ch) or the "General Radiation Protection Training" (half-day classroom course).
A K-State Online “course” for the “10,000 meter” safety overview

- I said above “There's no specific general safety training course” for this...
- So I made one in K-State Online: http://public.online.ksu.edu/
- The course is named “High Energy Physics group safety”, and it's really easy.
This is a K-State Online “course” to convey the most basic, initial safety information for those working in the High Energy Physics group.

If you work at Manhattan campus: Complete the Manhattan Campus Safety Knowledge Signoff assignment in this K-State Online "course" after reading General Safety Information for KSU HEP Researchers Working at the Manhattan Campus in the Course Materials folder and completing a radiation safety course.

If you work at Fermilab: Complete the Fermilab Safety Knowledge Signoff assignment in this K-State Online "course" after completing Fermilab's Employee/User Orientation and Training.

If you work at CERN: Complete CERN Safety Knowledge Signoff assignment in this K-State Online "course" after completing CERN's basic Safety Awareness courses and a radiation safety course.
Only three questions on the “test”
What's the point of the K-State Online “course”?

- It serves as a mechanism to aggregate self-reporting from everyone at all three sites regarding their safety training status.
- It provides a way to get the “10,000 meter” view to new hires.
- It does also have one question on the “test” that isn't just true-false. If you can't answer that one correctly, you really need to study more!