

Moving Beyond the Safety Inspection...

Our Efforts to advance the Culture of Safety

Amy Haberman, Director of Laboratory Safety

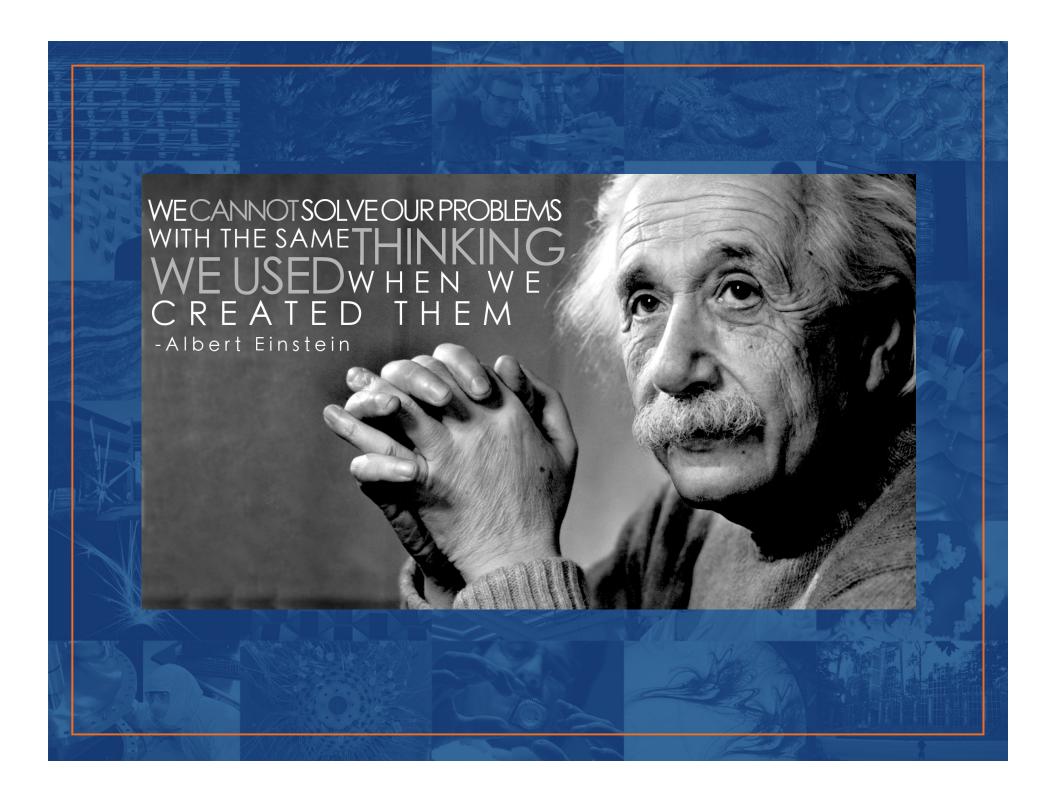
WE ARE POWERING THE NEW ENGINEER



UF Long-standing Model (pre-2013)

- EHS "police" us vs. them attitude
- Annual (if not more sparse) Inspections
 - Focused on physical items, not research
 - Bypass "death-machine" to go to first-aid kit (84% of findings related to contents)
- Empty threats of funding removal
 - Known non-compliance, no consequences
- No college or departmental oversight or expectations; only EHS
- Bottom line: it's not working...Major incidents across academia– including UF





COE Actions to Address Issues

- Formed Faculty Safety Committee
 - Reps from each department and EHS
- #1 deliverable create Safety position at College Level
 - Reporting lines to Associate Dean for Research and Facilities (implied authority)
 - A lot of focus on establishing a "Culture of Safety"
- Safety Culture Survey in development when I started, I assumed lead when I started in July 2013



ENGINEERING





of graduate students are working with hazardous materials











About 88% said they are comfortable talking to their peers, their P1 and EHS about safety concerns.



23% AFTER-HOURS



only 65% of those that should, DO

34% didn't know no was in charge of o-day safety matters





ONLY 25% PERFORM DOCUMENTED HAZARD **ASSESSMENTS**

96% say SAFETY is VERY important





84% think they have gotten sufficient safety training

WE ARE POWERING THE NEW ENGINEER



Health and Safety Objectives

- The College of Engineering is committed to providing a safe and healthy working and learning environment. We are dedicated to continuous improvement of our health and safety performance and culture by adhering to the following objectives, which align with our Gator Engineering Attributes:
- Leadership: Develop, implement, monitor and improve safety systems programs and policies to meet or exceed University standards.
- Integrity: Hold all accountable for contributing to the improvement of our safety culture by taking appropriate actions to remove hazards, minimize risk, and learn from incidents, accidents and near-misses.
- Professional Excellence: Establish a culture that fosters sound decision making and standardized processes in order to achieve continuous improvement in safety outcomes.
- Creativity: Identify innovative techniques that encourage everyone to develop a safety-awareness mindset, affecting motivation, behavior and attitudes in a positive way.
- Service to the Global Community: Prepare faculty and students to become safety ambassadors, possessing knowledge and skill sets that can translate into leading safety practices globally.

*Gator Attribute Awards - next year Safety Attribute Awardee





CONNECT, Not Inspect

Check-In

College of Engineering Staff <COESTAFF+L@LISTS.UFL.EDU> on behalf of Abernathy, Cammy <caber@ENG.UFL.EDU>

**Taculty/staff newsletter*

Also feature Lab Safety

Also feature Lab Safety Quarterly Newsletter

Offer help

Get to kNow the labs

- Introduce New programs
- **E**valuate hazards

more

LAB SAFETY NEWS

New Initiative: CONNECT

The COE Laboratory Safety office has launched a new initiative to CONNECT with the research labs. CONNECT is an acronym which stands for: Check-In, Offer help, get to kNow the labs, introduce New programs, Evaluate hazards, Correct concerns (non-punitive), and Tout (identify and recognize/reward best

In order to meet these objectives, we plan to visit each research lab 2-4 times per year. Our aim is to promote a positive safety culture by creating a strong relationship with researchers, so that the safety office feels like an extension of every lab - a resource that can focus on finding safety solutions. To set up a CONNECT visit, contact Amy Hab

No Findings Club

The College will recognize labs that have no findings on their <u>Correct concerns (non-punitive)</u>

Spring Commencement for Masters & Specialist

May 2, 2015 • 7:00 p.m. - 10 p.m. Ben Hill Griffin Stadium

Spring Commencement for Bachelor's Degrees

May 3, 2015 • All Day Phillips Center for the Performing Arts Morning Ceremony: 9:00 a.m.- CISE, ECE, ISE, ABE Afternoon Ceremony: 2:00 p.m. - MAE, BME Evening Ceremony: 7:00 p.m. - MSE, NEP, CCE, EES,

More information »

STUDENT SUCCESS

IPPD Students partner with Morphogenesis to develop innovative device for capturing rare cells

Tout (identify and recognize/reward best practices)

Opportunities for Involvement

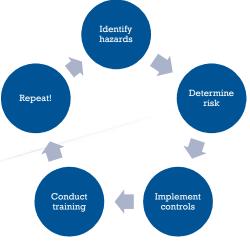
- Faculty Safety Steering Committee reps from each department and EHS (group renamed)
 - High level college-wide initatives
- Safety Action Team (Staff) facilities staff from each department
 - Identification of systemic failures to address (fume hood testing protocol, electrical wiring issues, etc...)



New Faculty Orientation

- COE Health and Safety Objectives
- Roles and Responsibilities
- Lab Registration Form
- Lab Safety Kick-Starter
- Training Expectations
- Hazard Identification and Risk Assessment
- Maintaining Safe Conditions
- Responding to Incidents
- Enhancing Safety Culture







Monthly Safety Seminars

- Started in October
- Supplemental to EHS training, more in-depth topic specific
- Various training topics:
 - Outside vendors: Airgas, Sartoris, Swagelok, Parker-Hannifin, Labconco, HumanScale...
 - COE Safety Director: SOP writing workshop, GHS update, etc...



Engineering Safety Certificate

Gator Engineers...Engineered for Safety

- Complete all UF offered EHS training that is applicable to your research.
- Attend 10 Safety Seminars offered by the College of Engineering; or find comparable external safety training (at least 10 hours)
- Serve as an active member of your department's Student Safety Council for at least one semester.
- Demonstration of practical application of safety knowledge through a case study. To include:
 - Background of issue, risk assessment, specific solution and implementation plan, mechanism to eliminate future issues with this safety concern, metric to track the effectiveness and success of implementation



PALS with ExxonMobil

Partners in Academic Laboratory
Safety

- UF site visit June 2014
- UF Safety Workshop: Dec. 2014
- 10 UF Faculty, Staff and Students to EM site in TX Jan. of 2015
- Student presentation to Faculty and students to kick off Student Safety Councils





Incorporating Lessons Learned

From Student Presentation after PALS visits

- Safety as a culture, not just issue of compliance
- Safety comes from leadership/management
- Actively caring and accepting feedback

- Student Safety Councils in Materials Science and Environmental Eng.
 - Started initiative for students to collaborate and communicate
- Improved incident reporting including near-misses



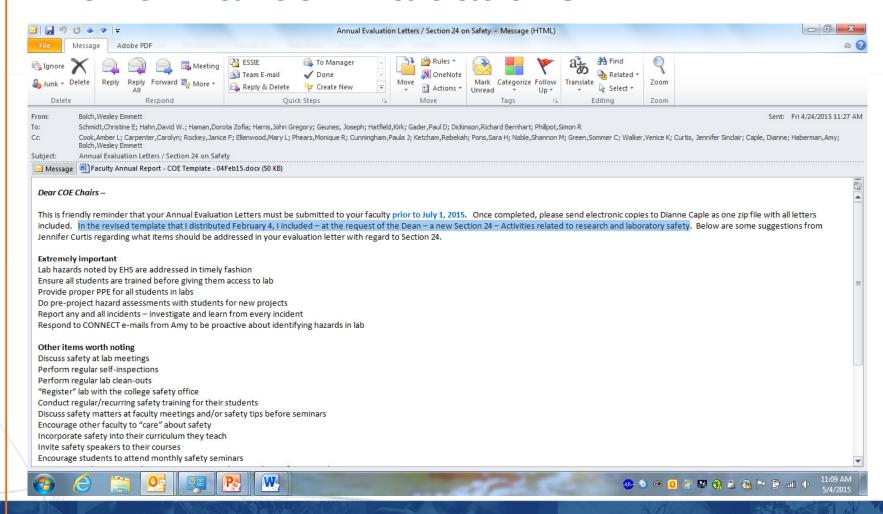
Unreasonable/Difficult Safety Improvements

From Student Presentation after PALS visits

- Exxon's safety program has been in development for 11 years
- Due to transient nature of lab employees, various safety standards cannot be universally incorporated
- Engineering controls for every test/ machine to protect against all possible eventuality
- BBSOs
 - At least not at this early stage



Performance Evaluations





Future items

- Additional industry partnerships (sponsorship of Student Safety Councils)
- Self-assessments
- Project reviews either before funding or shortly after being funded
- Graduation Requirement
- Enforcement



Thank you! Questions?

