

NIST SAFETY UPDATE

RICHARD KAYSER
CHIEF SAFETY OFFICER
DIRECTOR, OFFICE OF SAFETY, HEALTH, AND ENVIRONMENT (OSHE)

NIST VISITING COMMITTEE ON ADVANCED TECHNOLOGY
GAITHERSBURG, MD
OCTOBER 7, 1014

Agenda



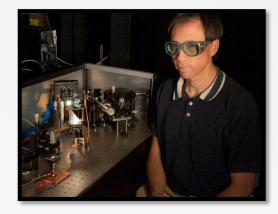
NIST Safety Incident Metrics



Safety Climate Assessment

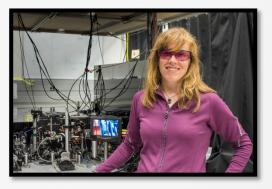


Discussion





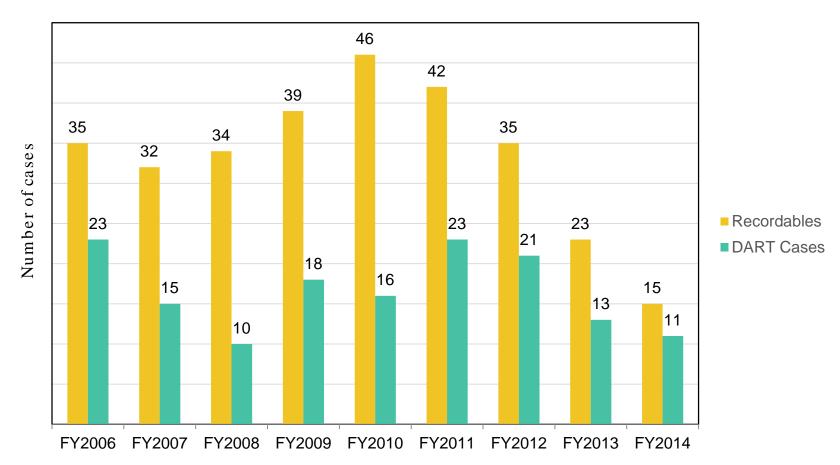






NIST Safety Incident Metrics





FY14 OSHA Recordable Cases

....

Slips, Trips, or Falls

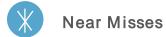
DART Cases

Event	Injury
Employee was using a hand drill to put in a self-tapping screw.	Employee lacerated left thumb with drill bit.
Employee was walking outside and slipped for no known reason.	Employee injured right knee and right shoulder as a result of fall.
Employee was closing cabinet drawer after filing.	Employee sprained finger when it was closed in drawer.
Employee was removing ice build-up on the louvers of chilled-water cooling towers.	Employee experienced tightening of and pain in the lower back and right shoulder.
Employee was walking on icy stairs, lost balance, and fell.	Employee experienced pain in both knees and lower back.
Employee was tightening bolt using long-handled socket wrench.	Employee experienced sharp and sudden pain in the lower back, shooting down the leg.
Employee was exiting vehicle in parking lot and slipped on ice, no fall.	Employee experienced pain in back.
Employee was manually loading a heavy object onto a truck.	Employee experienced pain in lower abdomen area.
Employee tripped on the curb.	Employee sustained a cut lip and an abrasion on the index finger.
Employee walking in a hallway slipped on a wet spot on the floor.	Employee experienced pain in the right foot and bruise on left elbow.
Employee was demonstrating a knife technique to other employees.	One of the other employees received a laceration to the hand.
Employee was walking past a smoker in front of Building 101.	Employee became short of breath and began coughing.
Employee was returning from official NIST business via car and was rear-ended.	Employee experienced pain to shoulder and arm.
Employee was moving about office area and tripped over box on floor.	Employee experienced pain in knees and left wrist.
Employee was moving equipment when hit by a side panel that fell from a rack.	Employee experienced pain in the lower back.

Incident Reporting

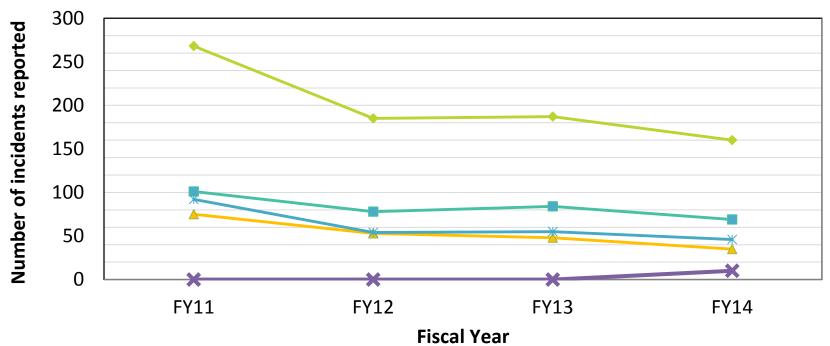






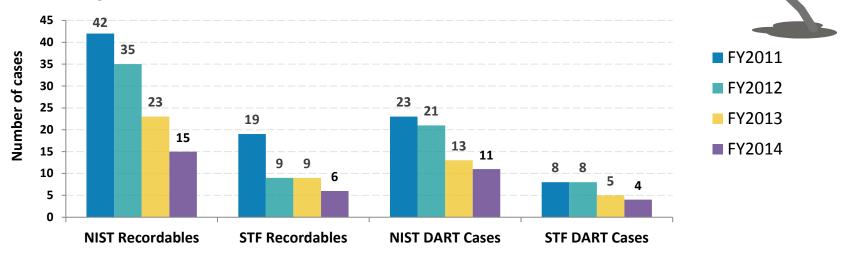


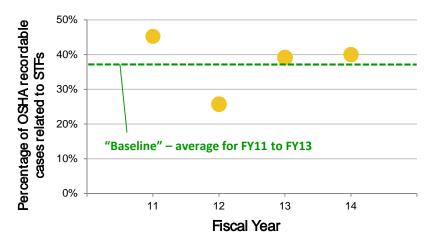


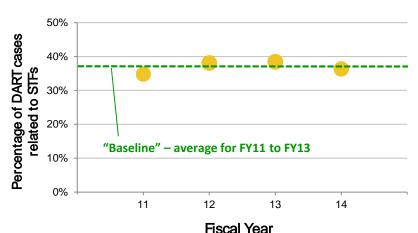


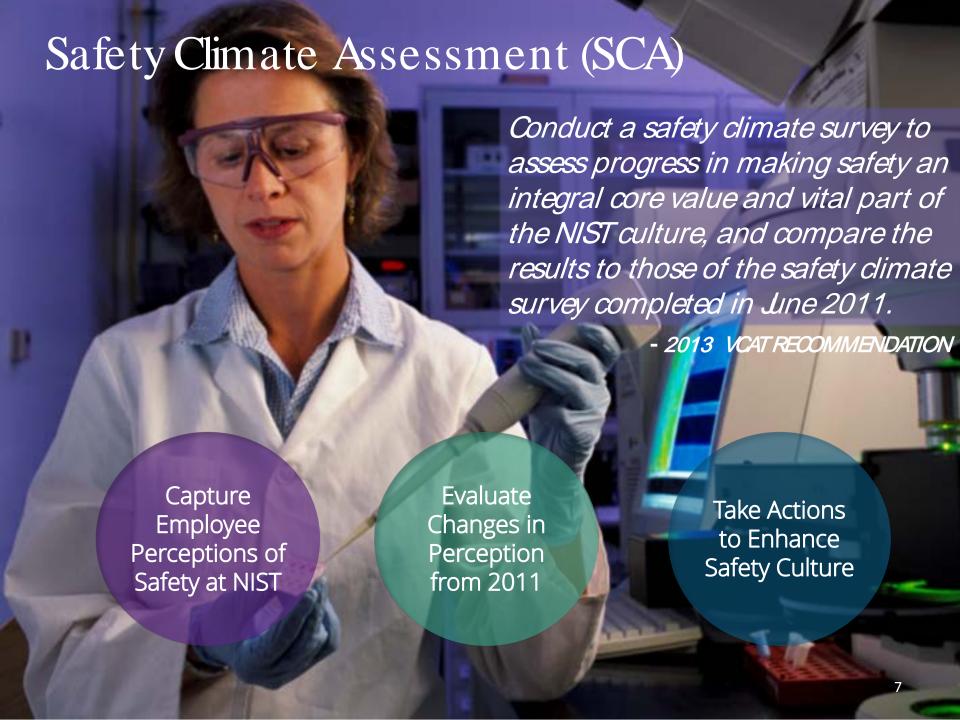
Slips, Trips, and Falls Incident Reduction

Reduce the occurrence of the most common types of incidents resulting in OSHA recordable cases









SCA Current Status

Progress since June 2014

....

Aug/Oct • Compile/Analyze Responses

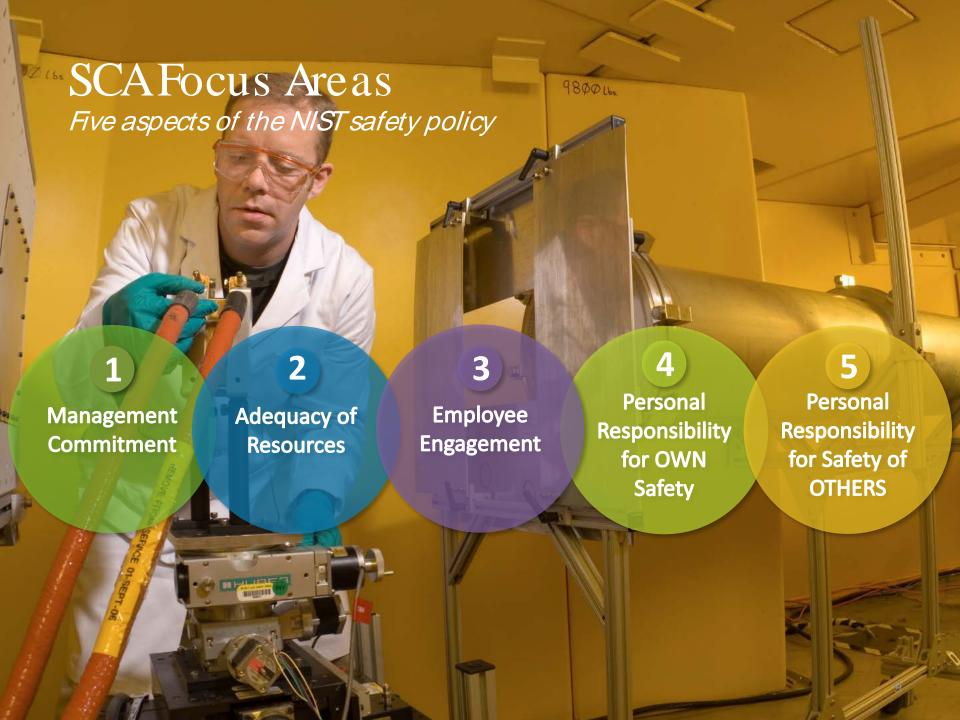
July/Aug • Conducted Survey

June • Conducted Pilot

June • Obtained Feedback on Statements

May • Developed Survey Statements

April • Selected Focus Areas



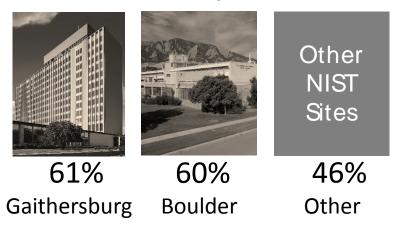
SCA Participation

Total Participation

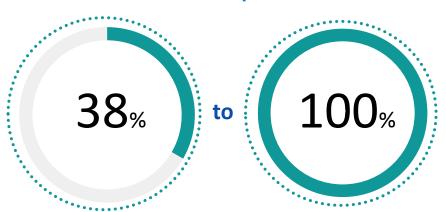
....

46_% 60_% 2014

Site Participation



OU Participation



Total Responses

1,908 Respondents

896 Comments



Comparison to FY2011 SCA

Liekert Scoring: Top score=5, bottom score=1

Top 10

Bottom 10

		2011	2014	% Improved
Ν	I cannot always get the equipment I need to do my job safely.	3.78	4.01	6.1%
Р	I receive safety performance feedback during my annual employee evaluation.	3.47	3.67	5.9%
Р	I am clear about what my responsibilities are for safety and health.	4.12	4.33	5.2%
Р	Managers and supervisors express concern if safety procedures are not adhered to.	4.08	4.28	4.9%
Ν	When people ignore safety procedures, it is none of my business.	4.25	4.37	2.8%
Р	There are always enough people available to get the job done safely.	3.59	3.68	2.5%
Ν	Sometimes I am not given enough time to get the job done safely.	4.01	4.07	1.5%
Ν	Sometimes it is necessary to depart from safety requirements for work's sake.	3.96	4.02	1.5%
Ν	Some safety rules and procedures don't need to be followed to get the job done safely.	3.74	3.77	0.9%
Ν	In my workplace, the chances of being involved in an accident are quite high.	4.12	4.13	0.2%
Р	I am strongly encouraged to report unsafe conditions.	4.23	4.20	-0.8%
Р	I am involved in informing management of important safety issues.	3.83	3.80	-0.8%
Р	There is good communication about safety issues that affect me.	3.93	3.87	-1.5%
Р	Co-workers often give tips to each other on how to work safely.	3.73	3.59	-3.8%
Ν	Some health and safety rules are not really practical.	3.24	3.01	-7.0%

Composite Scores by SCA Focus Area

NIST-wide by Work Environment: Office, Lab, or Other

....

	Office	Lab 💮	Other 💮
Management Commitment	3.94	3.88	3.60
Adequacy of Resources	3.72	3.63	3.37
Employee Engagement	4.04	4.05	3.91
Personal Responsibility for Self	3.99	3.79	3.56
Personal Responsibility for Others	3.53	3.58	3.40

Lowest two scores in each column

Composite Scores by SCA Focus Area

NIST-wide by Management Level

	Non- Supervisor	Group Leader	Division Chief	OU Director
Management Commitment	3.86	4.03	4.22	4.24
Adequacy of Resources	3.65	3.73	3.85	3.96
Employee Engagement	3.99	4.23 4.		4.64
Personal Responsibility for Self	3.86	4.01	4.29	4.55
Personal Responsibility for Others	3.50	3.64	3.82	3.98

Score Breakdown Example

"...clearly considers the safety of employees to be of great importance."

Director's Office	Liekert	SA	Α	N	D	SD	DK
NIST-level management	4.53	60.0%	36.7%	1.7%	0.0%	1.7%	0.0%
My OU management	4.56	60.0%	33.3%	5.0%	0.0%	0.0%	1.7%
My Division management	4.55	60.0%	31.7%	3.3%	1.7%	0.0%	3.3%
My supervisor	4.53	57.6%	39.0%	1.7%	1.7%	0.0%	0.0%
Laboratory Programs	Liekert	SA	Α	N	D	SD	DK
NIST-level management	4.49	57.3%	34.9%	4.6%	0.7%	1.1%	1.4%
My OU management	4.55	60.4%	33.0%	3.0%	1.0%	0.5%	2.0%
My Division management	4.50	58.2%	31.7%	4.9%	1.4%	0.6%	3.1%
My supervisor	4.51	60.1%	30.7%	5.5%	1.5%	0.5%	1.6%
Innovation 0 Industry							
Innovation & Industry	Liekert	SA	Α	N	D	SD	DK
Services	Liekert	SA		N		SD	DK
•	Liekert 4.72	SA 72.3%	A 27.7%	N 0.0%	D 0.0%	SD 0.0%	DK 0.0%
Services							
Services NIST-level management	4.72	72.3%	27.7%	0.0%	0.0%	0.0%	0.0%
Services NIST-level management My OU management	4.72 4.73	72.3% 72.3%	27.7% 26.2%	0.0% 0.0%	0.0% 0.0%	0.0% 0.0%	0.0% 1.5%
Services NIST-level management My OU management My Division management	4.72 4.73 4.69	72.3% 72.3% 67.7%	27.7% 26.2% 26.2%	0.0% 0.0% 1.5%	0.0% 0.0% 0.0%	0.0% 0.0% 0.0%	0.0% 1.5% 4.6%
Services NIST-level management My OU management My Division management My supervisor	4.72 4.73 4.69 4.75	72.3% 72.3% 67.7% 75.4%	27.7% 26.2% 26.2% 21.5%	0.0% 0.0% 1.5% 1.5%	0.0% 0.0% 0.0% 0.0%	0.0% 0.0% 0.0% 0.0%	0.0% 1.5% 4.6% 1.5%
Services NIST-level management My OU management My Division management My supervisor Management Resources	4.72 4.73 4.69 4.75 Liekert	72.3% 72.3% 67.7% 75.4%	27.7% 26.2% 26.2% 21.5%	0.0% 0.0% 1.5% 1.5%	0.0% 0.0% 0.0% 0.0%	0.0% 0.0% 0.0% 0.0%	0.0% 1.5% 4.6% 1.5% DK
Services NIST-level management My OU management My Division management My supervisor Management Resources NIST-level management	4.72 4.73 4.69 4.75 Liekert 4.27	72.3% 72.3% 67.7% 75.4% SA 44.4%	27.7% 26.2% 26.2% 21.5% A 43.2%	0.0% 0.0% 1.5% 1.5% N 7.4%	0.0% 0.0% 0.0% 0.0% D 1.8%	0.0% 0.0% 0.0% 0.0% SD 2.3%	0.0% 1.5% 4.6% 1.5% DK 0.9%

Potential Opportunities for Improvement

Based on preliminary analysis



....

Safety Training Effectiveness



Safety Performance Feedback & Appraisals



Communicating Resource Needs Up & Availability Down



Safety Program Development & Deployment



Addressing Employee Safety Concerns



Effective Safety
Leadership Traits
for
Strengthening
Safety Culture



Incident Reporting
Thresholds & Access
to Data & Lessons
Learned



Perceptions of Personal Responsibility for Safety of Self and Others

Next Steps

••••

What	Who	When
Complete analysis of employee responses	OSHE	Oct
Present results to the Executive Safety Committee	OSHE	Nov
Recommend actions to the NIST Director and Associate Directors	Executive Safety Committee	Nov/Dec
Decide on actions to be taken	NIST Director and Associate Directors	Dec
Communicate SCA results and actions to the NIST Staff	NIST Director, Line Management, OSHE	Jan
Take actions	NIST management and staff	Ongoing

