

# NIEHS Worker Training Program Grantee Meeting March 30, 2017

THE CONDADO PLAZA  
HILTON

SAN JUAN, PUERTO  
RICO





# **Joseph T. Hughes Jr.**

**Director**

**Worker Training Program**

**Division of Extramural Research & Training**

**National Institute of Environmental Health Sciences**

## WTP Awardee Agenda

- 1:00–1:05 p.m. Welcome: Royal Ballroom
- 1:05–1:35 p.m. Brief Grantee Introductions
- 1:35–2:30 p.m. NIEHS Updates
- 2:30–2:45 p.m. Clearinghouse Update
- 2:45–3:30p.m 2017 Operational Matrix
- 3:30–3:45 p.m. Break
- 3:45–5:00 p.m. Concurrent Sessions
  - Business Official Meeting Royal Ballroom
  - Program Official Meeting Mezzanine, Laguna I
  - ECWTP Meeting Mezzanine, Condado Room
- 5:00 p.m. Adjourn



# Setting the Stage for the Worker Training Program 2015-2020

*Leveraging Program Collaborations,  
Strengths, and Data*

**Fall 2015 Awardee Meeting and Workshop**

SEPTEMBER 28-30, 2015 • Research Triangle Park, NC

# Outcomes and metrics of success

- **Being in a position to choose battles, issues and opportunities as a metric.**
- **Creating growth and leadership opportunities for younger people.**
- **Collecting and arraying our sources of data so it can tell us something usable**
- **Defining what impacts are durable in the long term -- what is the program's legacy for the future?**
- **How do we make evaluation into a participatory process with our partners?**



# Current Operational Matrix

- WTP Program Areas
- Short and Long Term Activities
- Defines roles, Awardees, WTP, and/or Clearinghouse

**NIEHS WTP FY 2016 Operational Matrix**

Head-IRW/IT Green-ECWT Blue-HDPT Orange-DOE Purple-Infectious Disease/Biosecurity Light Blue-SSR Black-OCB

Activity	Awardees	WTP	Clearinghouse
<b>Goal 1: Improved Safety Culture in the Workplace</b>			
<b>1a. Increased Worker Empowerment</b>			
• Ensure worker transfer concept survives	•	•	•
• Develop Pathogen Safety Data Sheets	•	•	•
• Focus on Infectious Disease/Biosecurity Training	•	•	•
<b>1b. Trained Workers Who Can Identify Workplace Hazards</b>			
• Develop/distribute training preparedness/deployment guide to grantees for use	•	•	•
• Develop & incorporate training modules for emerging threats (e.g., Nano, Fracking)	•	•	•
• Develop training modules based on the climate vulnerability assessment	•	•	•
<b>1c. Trained workers who understand how to take action</b>			
• Organize/participate in DOE trainer exchanges	•	•	•
• Integrate disaster resilience & mental health materials into training (possible area for supplement)	•	•	•
<b>1d. Safe company practices and policies</b>			
• Focus on meaningful worker involvement	•	•	•
<b>Goal 2: Reduced Morbidity and Mortality</b>			
<b>2a. Improved Policies and Regulations/ Improved enforcement of health and safety practice/policy/regulation</b>			
• Engage with OSHA regarding chemical plant safety, climate change	•	•	•
<b>2b. Updated policy and regulation</b>			
• Engage with Defense Nuclear Facilities Safety Board/DOE	•	•	•
• Monitor new proposals and engage with EPA	•	•	•
• Monitor new proposals and engage with OSHA	•	•	•
<b>Goal 3: Increased Opportunities for Occupational Hazard Mitigation and Remediation in Communities</b>			
<b>3a. Increased job opportunities/increased links between workers, workplace, and communities</b>			
• Continued outreach to aid collaboration with local/state gov't and private contractors	•	•	•
• Encourage EDWTP grantees to pilot Work & Health Equity curricula	•	•	•
• Nurture OSHA/NIOSH disaster relationships	•	•	•
• Use HHS strategic plan to engage with Native Americans and Hispanics (minorities)	•	•	•
• Partner with Energy Community Alliance (ECA)	•	•	•
• Support Good Jobs Green Jobs Conference	•	•	•
• Work towards NIEHS/DOE collaboration on Legacy Management pilot training	•	•	•
<b>3b. Increased grantee knowledge base</b>			
• Share best practices & mobile training (Methods, Partnerships, Evaluation, etc.)	•	•	•
<b>3c. Improved capacities to effectively train, evaluate, communicate, collaborate, build/sustain partnerships, and accomplish WTP goals</b>			
• Develop and implement communication plan (PI's, Boards, Communications offices, Others)	•	•	•
• Document Program History and Common Messages for 50th Anniversary	•	•	•
• Develop common evaluation question template	•	•	•
• Data Mining, coding, and other activities to evaluate programs	•	•	•
• Complete data in progress reports and OMS for consistency	•	•	•
• Continue to use and modify template of the disaster evaluation tool	•	•	•
• Ensure accuracy and high quality of training & use of Minimum Criteria	•	•	•
• Share economics benefits report	•	•	•
• Quantify minority population in new EDWTP programs	•	•	•
• Develop fact sheets describing SSR awardees (include past awards and outcomes)	•	•	•
• Participate in HHS Training WG	•	•	•
• Update WTP Strategic Plan	•	•	•
• Integrate the economic value of partnerships as a theme moving forward	•	•	•
• Market SSR program to encourage more applications	•	•	•
• Continue efforts to integrate into HHS response plan(s) and framework(s)	•	•	•
• Participate in efforts to integrate into HHS Operational Planning for Chemical Incidents	•	•	•
• Participate in NRT Subcommittee(s) & continue integration efforts	•	•	•
• Participate in Work & Health Equity Working group of APHA OHS Section	•	•	•
• Find training modules on Work & Health Equity to OI website once finalized	•	•	•
<b>Goal 4: A Sustainable Program Based in Science and That Incorporates Current Technologies and Promotes Innovation in all Aspects of its Mission</b>			
<b>4a. Appropriate levels of funding</b>			
• Create/update map of places where WTP has responded	•	•	•
• Track success stories and geo-location via new OMS feeds for all program areas	•	•	•
<b>4b. Use of current technologies in training</b>			
• Inventory current technologies used by awardees	•	•	•
<b>4c. Promotion of innovation through research and grants</b>			
• Support awardee involvement in Disaster Research Response (DR2) research, response, and training	•	•	•
<b>4d. Science-based activities</b>			
• Encourage grantees to seek opportunities for publication	•	•	•

Red - IRW/IT Green-ECWT Blue-HDPT Orange-DOE Purple-Infectious Disease/Biosecurity Light Blue-SSR Black-OCB  
Solid color/white dot: Lead Organization; White/colored dot: Organizational awareness/involvement  
OCB: Office of the Director, Bethesda; NRT: National Response Team; HHS: Health and Human Services

## Javier Saracho Retires from UMET and Rutgers





## Javier's view from his place now in Malaga, Spain....



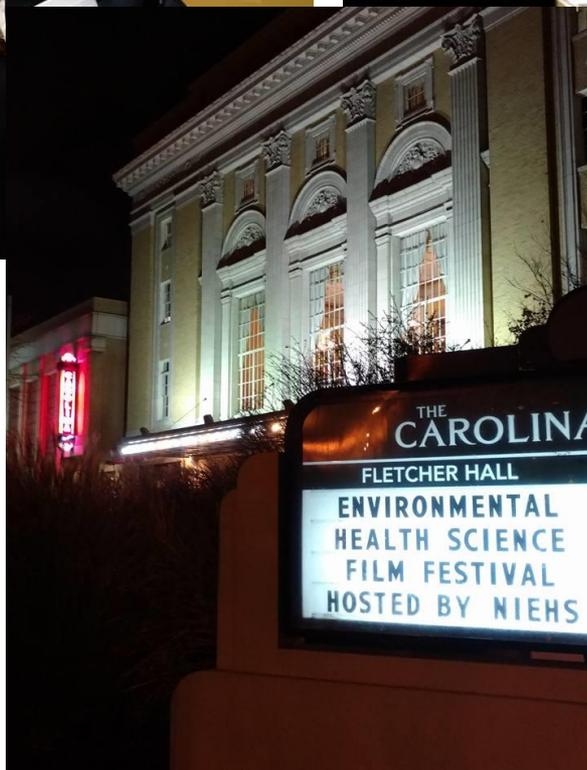


## It was Our Anniversary – Celebrating 50 Years of NIEHS!

- NIEHS hosted the **Environmental Health Science FEST** -  
- a grand meeting of NIEHS-funded grantees
- **“FEST” stands for**  
Facilities, Engagement, Scientific Advancement, and  
Training from December 5-8, 2016 in the North Carolina  
Triangle Area



A truly historic day at the 50th anniversary NIEHS EHS FEST with the man who really made it all happen!!!



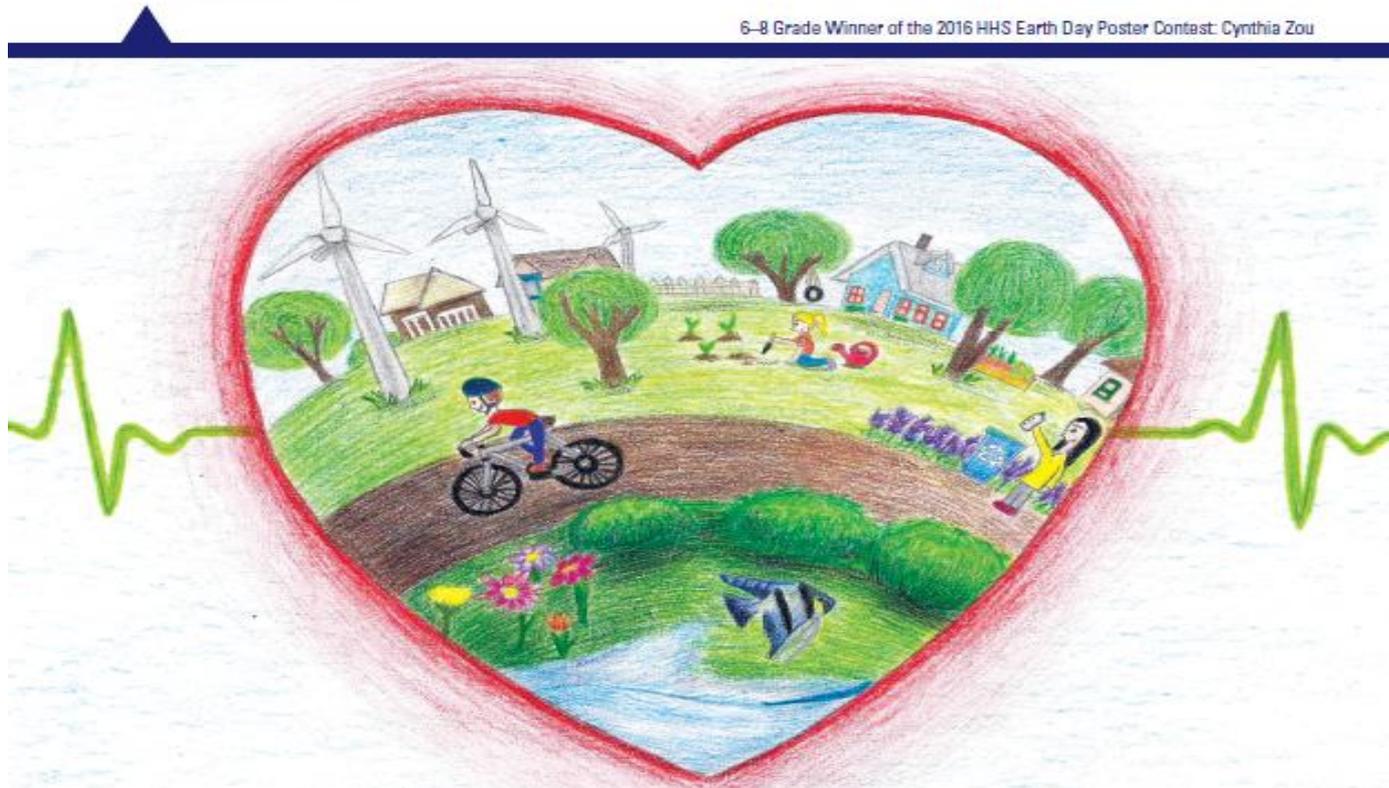


# 2017 Environmental Justice Implementation Progress Report

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES | WASHINGTON, D.C.

JANUARY 2017

6-8 Grade Winner of the 2016 HHS Earth Day Poster Contest: Cynthia Zou





National Institute of  
Environmental Health Sciences  
*Worker Training Program*

The National Institute of Environmental Health Sciences  
Worker Training Program with the Department of Energy

# NUCLEAR WORKER TRAINING PROGRAM

## Accomplishments and Highlights

September 1, 2015 to August 31, 2016

# NIEHS White Paper on Safety Culture for DOE Workers

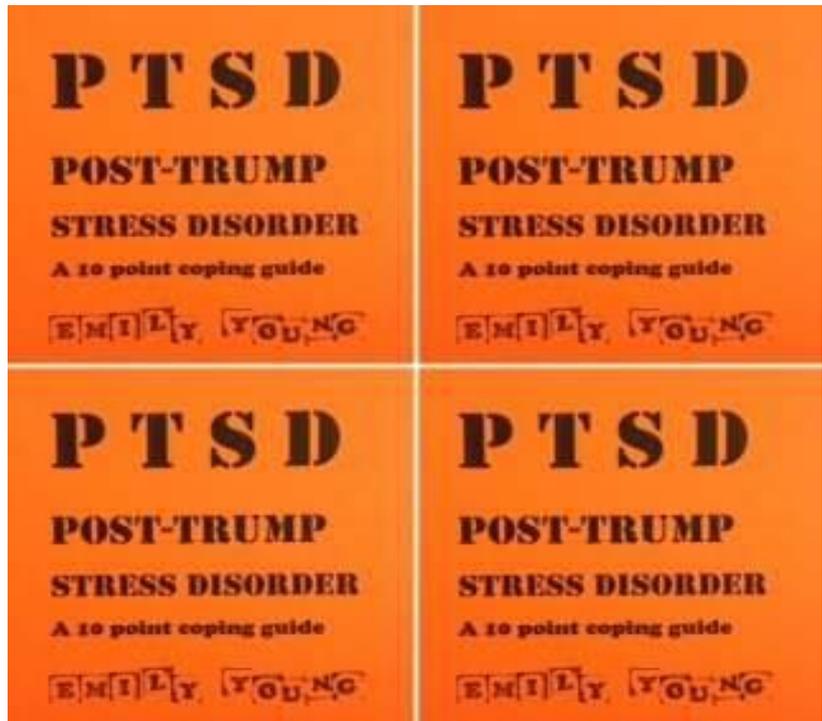


The U.S. Department of Energy  
Integrated Safety Management System  
and Safety Culture Initiatives

A DISCUSSION PAPER

# Disaster Responder Resilience Training Carries on!

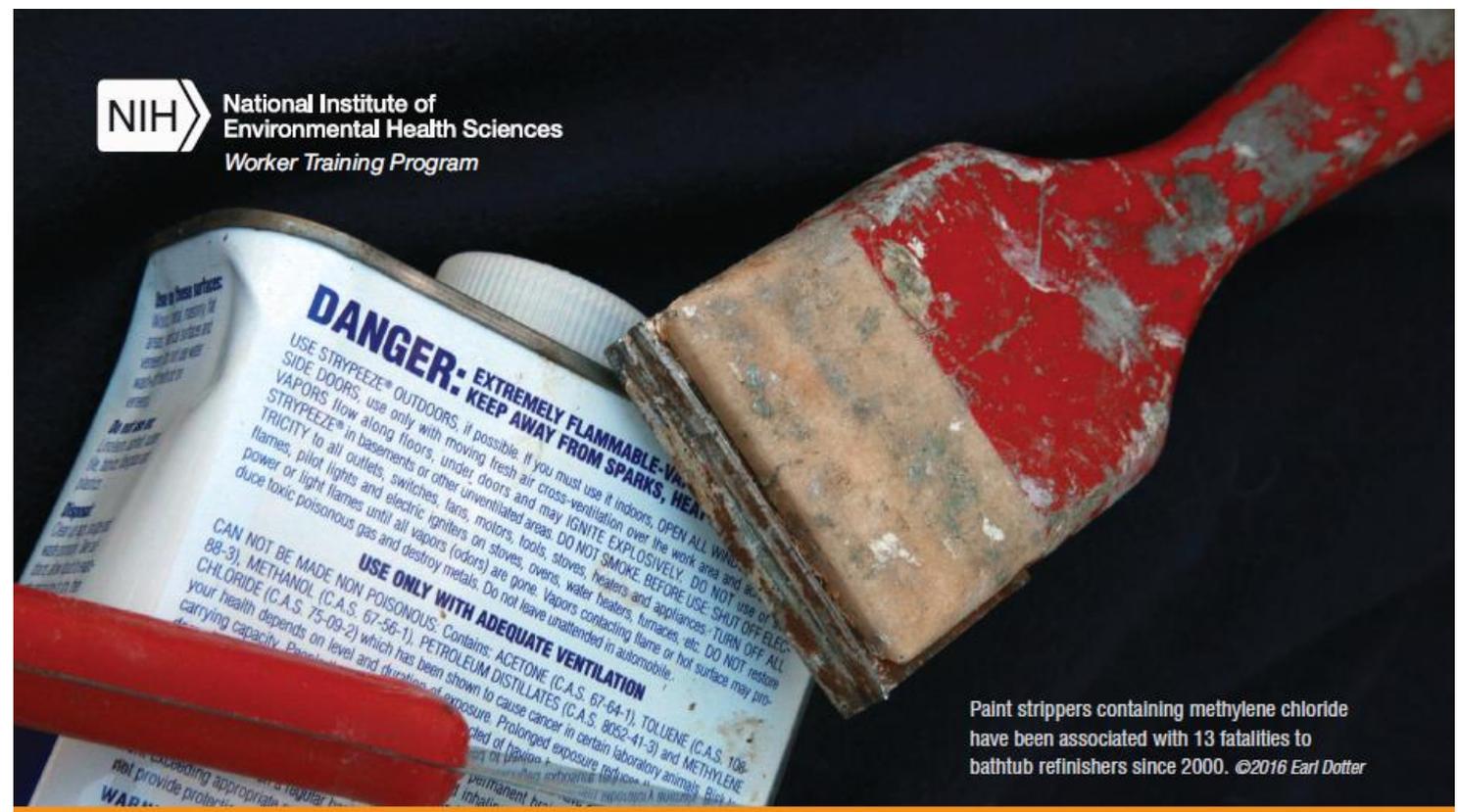
Be **STRONG** enough to stand alone,  
**SMART** enough to know when you need help,  
and **BRAVE** enough to ask for it.



## The “retirement” of HHS ASPER Nicole Lurie



# NIEHS Initiative on TSCA for Workers

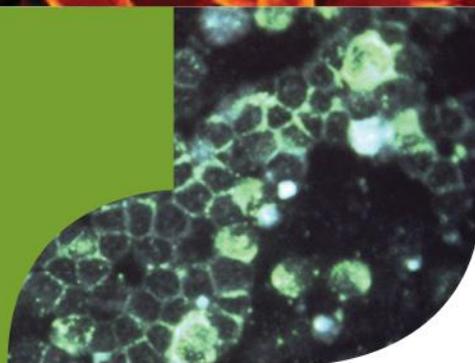
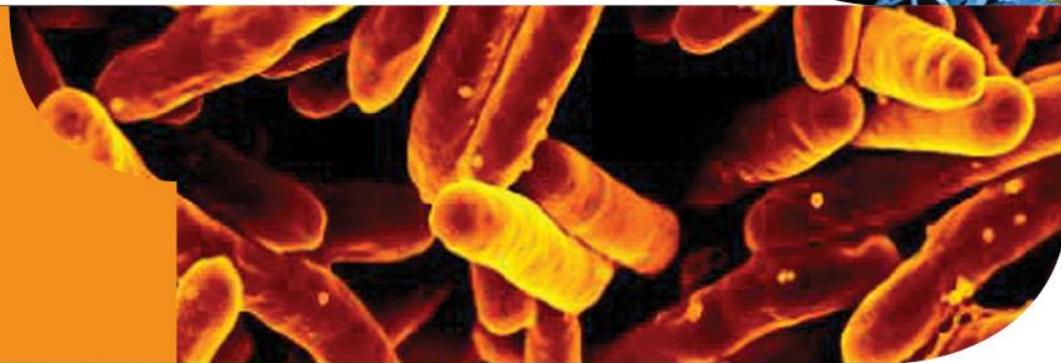
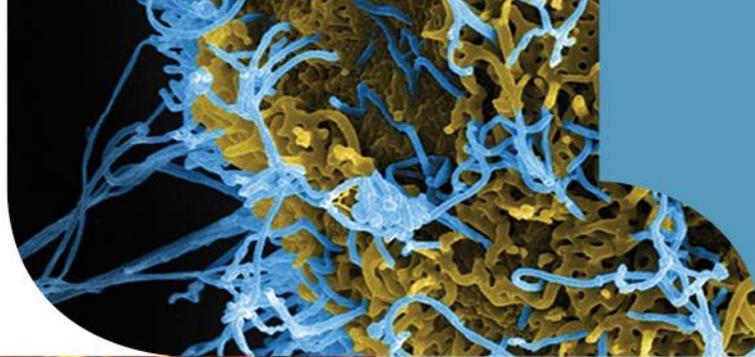


Paint strippers containing methylene chloride have been associated with 13 fatalities to bathtub refinishers since 2000. ©2016 Earl Dotter

How will the changes to the Toxic Substances Control Act (TSCA) impact workplace chemical safety and health?



National Institute of  
Environmental Health Sciences  
*Worker Training Program*



# Pathogen Safety Data (PSD) Guide Training Module

SEPTEMBER 2016

NOTE: This module should not be used as a comprehensive stand alone safety & health training module on infectious diseases. Rather, users are encouraged to adapt and incorporate this module into new and existing programs. Also, the Trainer notes below each slide contain important information that should be reviewed prior to using this module.

## PSD Guide Formats

NIEHS grantees and the safety and health community are encouraged to make use of NIEHS educational resources to strengthen their infectious disease training programs. The Guide can be integrated, adapted, and modified into existing training programs



- **PSD Pilot with LIUNA Training in NYC**



## PSD Pilot at Emory in Atlanta



## Upcoming Events

- Our 2 upcoming meetings:

Fall in RTP on Oct 16-18 2017 and

Spring TRX March 19-21 2018 in CA or AZ;

- Please talk to your NIEHS program Administrator if you would like to be a planning committee volunteer

# NIEHS Award for ECWTP Economic Study





# Sharon Beard



**Industrial Hygienist**

**Worker Education and Training Branch**

**Division of Extramural Research & Training**

**National Institute of Environmental Health Sciences**





## Clifton Baldwin's Retirement



You are invited to the

### *Retirement Celebration for Clifton Baldwin*



Come help us wish Clifton a fun and exciting farewell after 38 years of Federal Service! He is off to play tennis, enjoy good music, and spend time with family and friends!

**Where:** NIEHS Cafe

**When:** Tuesday, January 10, 2017

**Time:** 2:30-3:30 pm



Please contact the following individuals to sign cards and for donations:

Keystone: Sharon D. Beard, Room KY3038, phone 1-1863 and Linda Bass, Room KY3074, phone 1-1307

Main Campus: Marva Wood, Room A248, phone 1-3209 and Leslie Lynch, Room B227, phone 1-7856



## Topics to be discussed

1. NIEHS EHS Fest Sessions

2. DOE Environmental Justice and Training Conference – Work Health Equity Curricula

3. CPWR ECWTP Site Visit and HBCU Climate Change Conference – Hosts Dillard and Texas South University

4. Update on Environmental Career Training Program Training Numbers – Sharing Success Stories

6. Brownfields and APHA

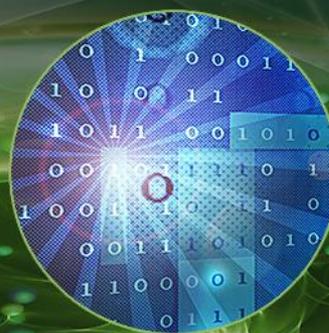
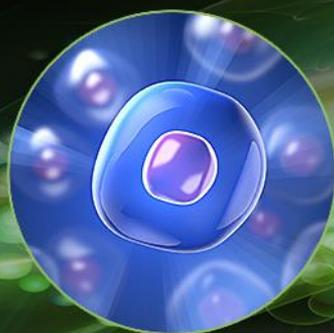
7. Podcasts and other stories



National Institute of Environmental Health Sciences  
*Your Environment. Your Health.*



# Sharing NIEHS Training Strategies: Evaluation Methods, Outcomes, and Impacts



**EHS FEST: Wednesday, December 7 (3:15 – 4:45)**

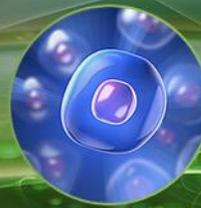
**Sharon Beard and Demia Wright**

Worker Training Program

National Institute of Environmental Health Sciences



National Institute of Environmental Health Sciences  
*Your Environment. Your Health.*



## Today's Speakers:

**Mollie Dowling, MACD and Sean Phillips**

*OAI, Inc.*

Dynamite Impact through Social Media

**Tammy Collins, PhD**

*NIEHS Office of Fellows' Career Development*

Where Are Postdocs Employed? Looking Back 15 Years—  
Visualizing the Career Outcomes of NIEHS Postdoctoral  
Fellows

**Sue Ann Sarpy, MS, PhD**

*Sarpy and Associates, LLC*

Innovative Approaches to Improving Effectiveness and  
Impact of Occupational Health and Safety Training Programs

**Discussion**

# Teaching the Social Determinants of Occupational Health Equity:

## NIEHS Educational Resources to Promote Work Environment Justice and Sustainable Jobs

Presenters:

Sharon D. Beard, MS

NIEHS Worker Training Program



Linda Delp, PhD, MPH, University of California, Los Angeles (UCLA)

Deborah Weinstock, MS, National Clearinghouse for Worker Safety and Health Training



# Work & Health Equity Module

4 to 6 hour module to help students recognize worker health inequities and how they can be eliminated:

- **Section 1:** Introduction to Occupational Health and Safety
- **Section 2:** Social Determinants of Worker Health & Equity – Pathways through which inequities occur by race/ethnicity, gender, class, immigrant status and age
- **Section 3:** Ways to Better Working Conditions – Strategies and Partnerships
- Includes video clips, case studies, and assignments

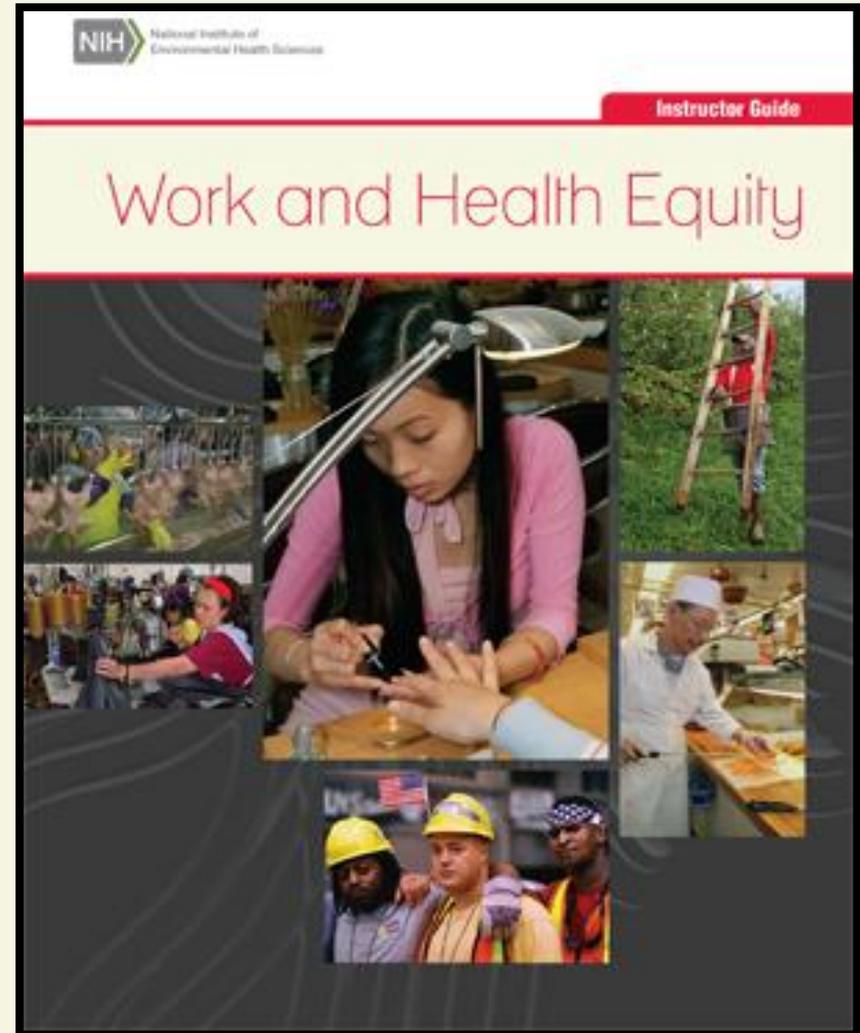
# Accessing the Curriculum Module

<http://losh.ucla.edu/resources-2/work-health-equity-module/>

**Register – Get password**

**Download:**

- Instructor Guide
- PPT for each section
- Family Work History assignment





# First Certified Pre-Apprenticeship Program in Louisiana -<http://www.ecpapno.org/>



ENVIRONMENTAL & CONSTRUCTION  
PRE-APPRENTICESHIP PROGRAM

## Training Tomorrow's Craftsmen Today

Superior Training. Professional Craftsmen. Productive Workforce.



Alumni Profile - Emmanuel Mitchell

November 12, 2015

Emmanuel Mitchell is a 1998 graduate of the New Orleans ECPAP. Emmanuel has reached a multitude of success benchmarks since graduating the program. He entered the ECPAP as a 19 year old, unemployed African American male with a high school diploma.



Since Emmanuel had taken some carpentry training through the Louisiana Technical College system he was able to start as a 2nd Year Apprentice when he joined the apprenticeship program.

Emmanuel was the first ECPAP graduate in the first year the program worked with the Carpenters Union to reach journeyman status. Now in his 30's, Emmanuel is still a Carpenters Union.

Over the years, Emmanuel purchases a truck, got married, purchased a home, built an addition to his house for his wife's beauty shop, and had 3 children. He recently purchased a second home and is renting out his first home.



## 5<sup>th</sup> Anniversary HBCU Climate Change Conference 2017 Schedule

5:00 pm – 6:15 pm

**Moderator:**

Dr. Ebony Turner

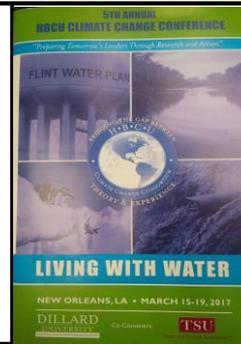
**Workforce Development:** *Creating Strategies to Develop the Resilient Worker in an Extreme Environment*

**Dr. Gerald Poje** Fairfax County Human Services Council, *Think globally, embed locally for action*

**Sharon Beard**, National Institute of Environmental Health Sciences, *Training to Protect Vulnerable Workers and Communities*

**Donele Wilkins**, Green Door Initiative, *Workforce Development*

**Jose Bravo**, Just Transition



# My Experience and Why Am I Here: Training to Protect Vulnerable Workers and Communities

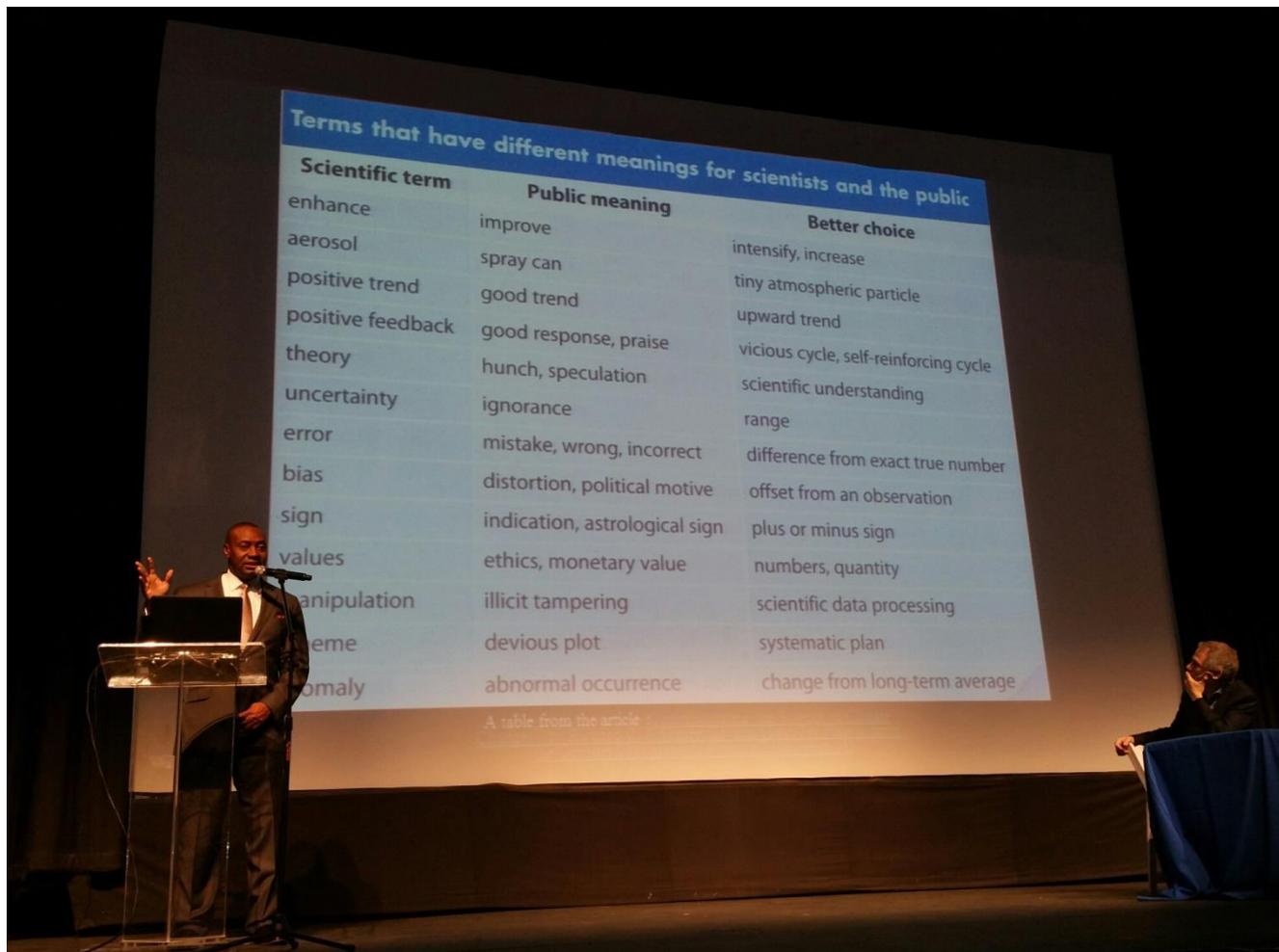
Sharon D. Beard

Industrial Hygienist, Worker Training Program  
National Institute of Environmental Health Sciences

HBCU Climate Change Conference New Orleans, Louisiana | March 18, 2016



# HBCU Climate Change Workshop



## ECWTP Awardees

- Center for Construction Research and Training
  - [New Orleans, LA](#); St. Paul, MN; and East Palo Alto, CA.
- OAI
  - Chicago, IL; Dallas, TX; Kansas City KS/MO.
- University of California, Los Angeles
  - Los Angeles, CA; [Seattle, WA](#); and [Portland, OR](#)
- Rutgers School of Public Health-NJ/NY Consortium
  - Newark, NJ and New York City, NY
- Dillard University
  - New Orleans, LA; [Pensacola, FL](#); Houston, TX; and Detroit, MI.
- United Steelworkers
  - [New York City, NJ](#)



Photo: Katherine Turner.





**NIEHS Environmental Career Worker Training Program Update  
Twenty-Year Summary of Training  
For Budget Period 09/01/1996-10/28/2016 Final**

<b>Year</b>	<b>Students Trained</b>	<b>Placed in Jobs</b>	<b>Percentage of Students Placed in Jobs</b>
1996-2006	3,499	2,346	67%
2007	385	241	63%
2008	317	222	70%
2009	379	285	75%
2010	531	372	70%
2011	396	291	73%
2012	366	274	75%
2013	367	279	76%
2014	348	269	77%
2015	397	323	81%
2016	440	334	76%
<b>Total</b>	<b>7,425</b>	<b>5,236</b>	<b>71%</b>

- University of Washington PACE – (ECWTP) <http://deohs.washington.edu/environmental-health-news/investing-those-most-risk>
- CPWR Carpenters [Alumni Profiles](http://www.ecpapno.org/news/) -<http://www.ecpapno.org/news/>

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Over the years, Emmanuel purchases a truck, got married, purchased a home, built an addition to his house for his wife's beauty shop, and had 3 children. He recently purchased a second home and is renting out his first home. In his career, Emmanuel moved up the ladder to supervisory positions, started his own side business doing residential construction/renovation, and even taught carpentry for the Louisiana Technical College.

Emmanuel is a long-time member of the ECPAP Advisory Board. Emmanuel's latest milestone was being elected a Trustee of the Central South Carpenters Regional Council.

### DEPARTMENT OF ENVIRONMENTAL & OCCUPATIONAL HEALTH SCIENCES

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## ENVIRONMENTAL HEALTH NEWS

### Investing in Those Most At Risk

Return to 2015, Issue #2 Issue



Jar Kizaveshi was among the students in the first PACE training cohort. Photo: Katherine Turner

PACE provides trade-related job skills toward a construction industry apprenticeship, which is an on-the-job training for novices under an experienced practitioner. PACE is a grueling 11-week or 350-hour program.

The folks watching, taking notes, are looking for drive, a person who won't quit. They test for drugs. They ask personal questions. What would prevent a person finishing the program? They are judging the applicants by their perseverance, positive attitude, punctuality, and work ethic, not their histories.

Not everyone makes it to graduation. But for those that do, there is a 50-percent placement rate and the opportunity to make \$15-20 an hour.

Job security and a steady paycheck aren't taken for granted by these prospective students. Many are minorities, from low-income groups. Some didn't graduate from high school. They may have learning disabilities. A couple have served time in prison. One has a mom who was hooked on drugs and living on the streets when she was growing up, a father murdered at a Jack in the Box.

The program is a means for students to get back on their feet and break the cycle, said Michael Dunn, who was among the interviewers at PACE tryouts. He manages the Worker Training Program in the Department of Environmental and Occupational Health Sciences, which provides health and safety training in PACE.

Butch de Castro, an adjunct associate professor, in the department directs the Worker Training Program funded by the National Institute of Environmental Health Sciences. He explains that the construction industry is rife with hazards and job safety is key, particularly for workers new to the industry.

**6.5 million** people work at approximately 252,000 construction sites across the nation. **1 in 5** worker deaths were in construction in 2014.



the environment, and OSHA regulations.

They are also taught life skills, such as managing finances.

Basic industry knowledge and skills are taught by Scott Sanchez, the trades instructor hand tool & power tool use, trades math, blueprint reading, certifications in forklift, rigging, and first aid/CPR. Sanchez has 22 years of experience in the industry.

He knows how to do it right," said Janey Simpson, a single mother in the first PACE cohort. "It's 11 weeks for the rest of your life," she said. "As long as you show up and show Scott and Diane that you are ready and you want to learn, they're going to sell you up to it."

Diane Davies administers the PACE program. She also helps students manage some of the obstacles and barriers they have and gives them support and structure. When they're needed, bus passes are available. Food is provided by a food bank and Salway. The students' uniform, their standard equipment—hard hats, boots, gloves, tool belts—are donated by local construction companies, general contractors and labor and electrician unions.

It's the industry investing in the apprenticeship program as a pipeline into the industry," she said. There are multi-billion-dollar projects all over the city that need skilled workers. "There's a need in the industry, there's a need in our community," Davies said.

The City of Seattle must hire a percentage of workers from the local area where the

By Elizabeth Sherga. Photos and Video by Katherine Turner

Construction pre-apprentices get safety training and job skills in 11 weeks

There are over a dozen men and women on the second day of tryouts for the Washington State Building and Construction Trades Council's King County Pre-Apprenticeship Construction Education (PACE) program, the first nationally to be sponsored by a building and construction trades council.

It's a typical day in Seattle, Overcast. Soon the sky opens, releases a sprinkle, sometimes a deluge. But those trying out for admittance into PACE aren't as typical, and that's why they're there. Melissa Donahue and Tonika Marie Love are one-by-one lifting three 50-pound bags of cement out of a wheelbarrow with a flat tire, then returning them again, and putting it down the dock. Love is breathing hard. Her face is red, grim, determined. Inside, another four-person team is taking turns carrying, then lining up two-by-four pieces of wood or stacking cement blocks.

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The City of Seattle must hire a percentage of workers from the local area where the



Building Up: Investing in Those Most at Risk



- AIHCE 2017 – Seattle, WA
  - Pathogen Safety session
  - Site Visit to WRUC/Univ. of Washington
- APHA 2017 –Atlanta, GA
  - Several sessions have been submitted by NIEHS WTP and NIEHS WTP Awardees
    - Jobs and infrastructure development in coastal communities after disasters
    - Worker Vulnerability and Preparedness for Severe Weather Events: Capacity Building and Response from the NIEHS Worker Training Program
- Brownfields 2017 – Pittsburg, PA
  - United Steelworkers will host
  - Several Sessions
    - *Technology in the classroom: Blended learning and LMS*
    - *Pre-apprenticeship partnership model: Building partners in the community to ensure career entry into the trades*
    - *Living Beyond the Disaster: A Resilient Recovery Utilizing Education and Training*



**APHA 2017**  
ANNUAL MEETING & EXPO  
ATLANTA | NOV. 4 – 8



# Infinite Radio Series – Outgrowth of the Vulnerable communities conference

## Linked Audio



[Listen to Beard describe how WTP helps train workers, especially those in disadvantaged communities, for jobs cleaning up hazardous or polluted sites while protecting the health and safety of themselves and others, with Infinite Earth Radio co-host Vernice Miller-Travis. \(33:00\)](#)

(Launches in a new window) 

EPISODE 43 | 33 MINS

## Moving Vulnerable Communities from Surviving to Thriving, Part 4

Worker Training and Workforce Development





# **Jim Remington**

**Program Analyst**

**Worker Training Program**

**Division of Extramural Research & Training**

**National Institute of Environmental Health Sciences**

# Hazmat Disaster Preparedness Training Program

- Numbers

Year	Number Grantee	Courses	Workers	Contact Hours
2016	13	784	12,550	109,081
2015	11	899	12,953	145,699
2014	11	935	12,984	128,070
2013	11	827	12,473	112,7001
2012	11	684	9,327	94,096

## HDPTP Activities

- Flint, MI
- Louisiana Floods
- Infectious Disease
- Trainer Deployment Guide
- ESAP
- Researcher Deployment Guide
- Division of Extramural Research and Training SP 5
  - Disaster Research Response (DR2)
  - Researcher Deployment Guide
  - September DR2 Meeting RTP



## WTP SBIR's Being Funded in 2017

PI	Company	Title
Bandera, Cesar	CELL PODIUM	Novel Augmented Reality Training System for HAZOPS Training
Ryng, Henry	INXSOL LLC	HazPrep Worker Training - Community Risk Profile
Barnes, Rhett James	SPECTRAL LABS, INC.	Realistic Adaptive Immersive Learning System (RAILS) for HAZMAT Site Monitoring Characterization and Remediation Training
Motakef, Shariar	CAPESYM, INC.	Smartphone Simulator for Realistic Radiation HAZMAT and Emergency Response Training
Shetty, Radhakishan	JANUS RESEARCH GROUP, INC.	Advanced technology for the improvement of Modular Emergency Radiological Response Transportation Training
O'Brien, James Patrick	D AND E TECHNICAL, INC.	Oil Spill Response Using In Situ Burning: e-Learning for Responder Safety and Effectiveness



# **Demia Wright**

**Public Health Educator**

**Worker Training Program**

**Division of Extramural Research & Training**

**National Institute of Environmental Health Sciences**

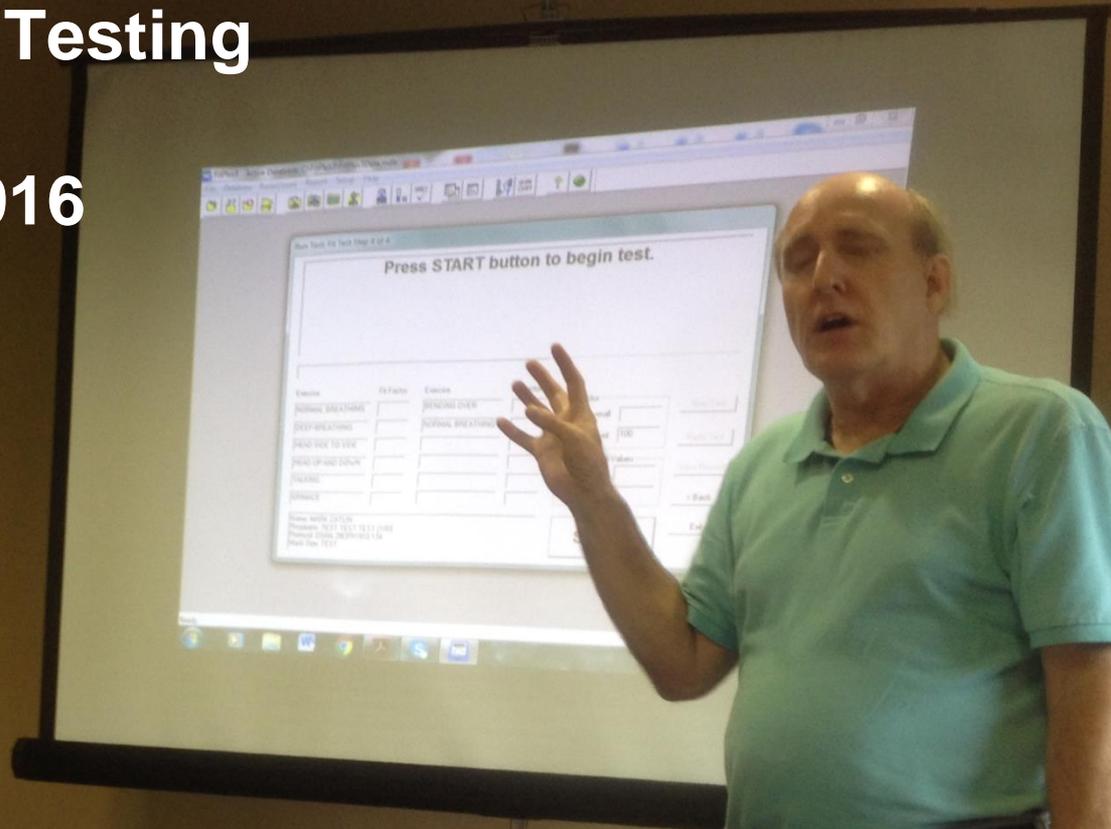
# Ford Michigan Assembly Plant, Wayne, MI

Tour during Midwest Consortium Trainer's Exchange,  
July 2015

Photo from [Wikimedia Commons](#)



# ICWUC Infectious Disease Meeting, Respirator Fit Testing Durham, NC September, 2016



**Alabama Fire  
College  
Confined Space  
Rescue Training,  
on board the  
U.S.S. Yorktown,  
Mt. Pleasant, SC  
February 2016**



**United Auto  
Workers  
Spanish  
Language Train  
the Trainer;  
Tour of the  
UAW-GM  
Training Facility,  
Detroit, MI  
February 2017**

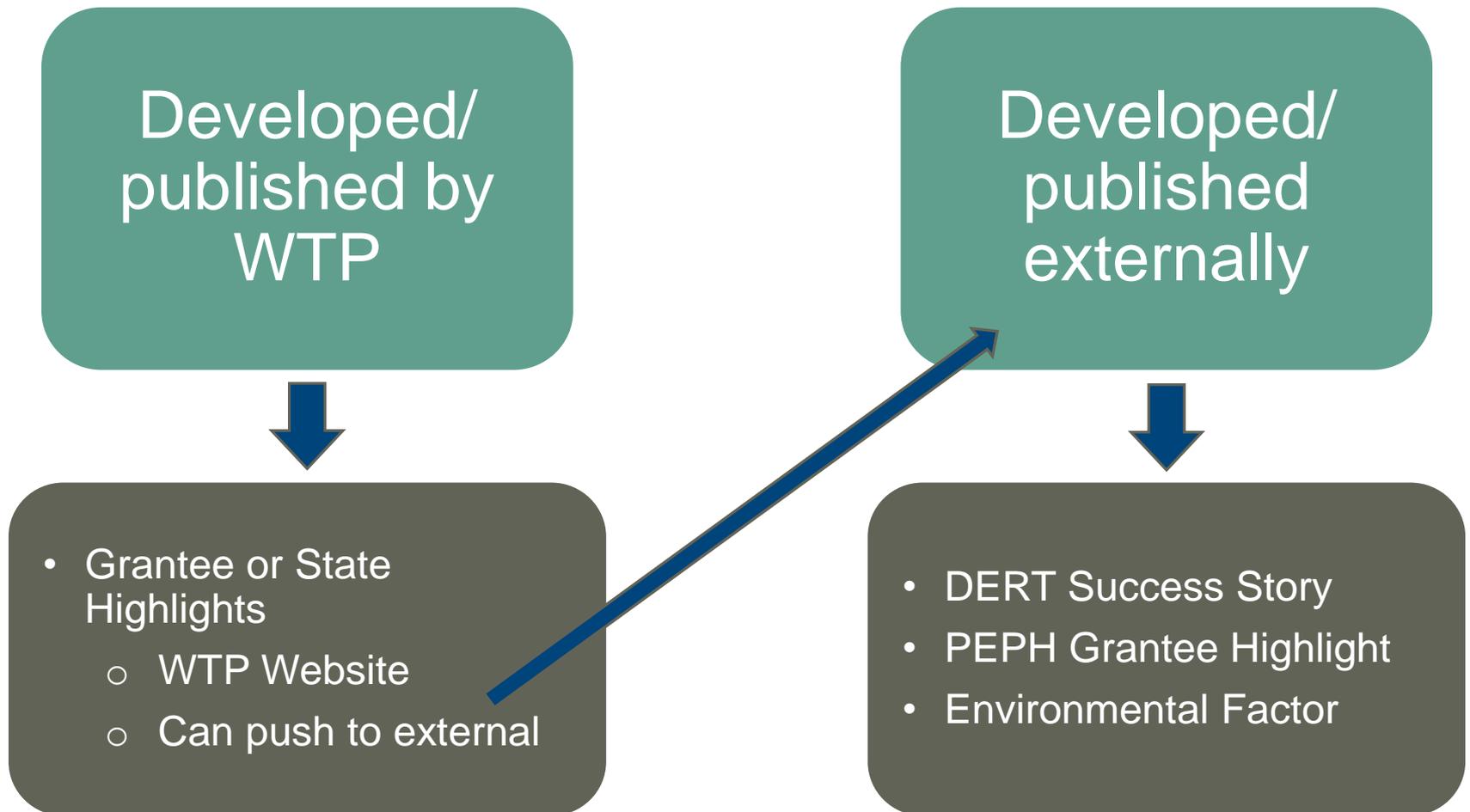


**NIEHS  
HAZWOPER  
Refresher – Joint  
Spill Refresher  
with EPA  
December 2015**





## Two Approaches to Program Stories



Research

Funded by NIEHS Grants

Stories of Success

COMMUNITY COUNCIL: LATINO YOUTH WORK WITH INVESTIGATORS TO FACILITATE COMMUNITY-BASED ENVIRONMENTAL HEALTH RESEARCH PROJECTS

COMMERCIALIZING A NEW PORTABLE MERCURY DETECTOR

ELUCIDATING RISK FACTORS FOR BREAST CANCER: PUBERTY, DIET, AND ENVIRONMENTAL EXPOSURES

ENABLING COMMUNITY SCIENCE THROUGH A POINT-OF-CARE SENSOR TO DETECT TOXIC HEAVY METALS

EXPLORING THE IMPACTS OF PARTICULATE MATTER ON LUNG INJURY AND CARDIOVASCULAR HEALTH

GRANTEE LINKS EARLY LEAD EXPOSURE WITH BEHAVIORAL PROBLEMS IN CHILDREN

HIGH SCHOOL TEACHER'S RESEARCH EXPERIENCE BENEFITS STUDENTS

HIGH-THROUGHPUT DNA

PROTEIN ANALYSIS MOVES FROM

## WTP Grantee Advances Worker Health, Safety, and Environmental Training

### DERT Success Story

#### James (Jim) S. Frederick, Steelworkers' Mazzocchi Center

Jim Frederick's career is dedicated to helping workers protect themselves from hazards on the job. As a child growing up in Elkhart, Indiana, he witnessed first-hand why protecting workers from chemical and physical exposures is critically important. He vividly recalls sitting in his third-grade classroom and hearing the loud explosion of a nearby chemical processing facility blowing up. Many of the workers inside were badly injured or killed.

"Considering whose family member or relative might have been injured, or killed, was incredibly surreal," said Frederick. "I never forgot that experience - it really stuck with me."

This childhood experience primed Frederick's commitment to the worker safety field. Today, Frederick is assistant director of the United Steelworkers' Health, Safety, and Environment department, where he is actively involved in a variety of initiatives aimed at protecting workers and the environments where they work and live. He is also principal investigator for the Steelworkers Charitable and Educational Organization's [Tony Mazzocchi Center](#) (TMC). TMC is an [awardee](#) of the NIEHS Worker Training Program (WTP).



Jim Frederick speaks on the challenges and successes in the occupational health and safety field. (Photo courtesy of United Steelworkers)

**NIEHS  
Div. of  
Extramural  
Research  
and  
Training  
(DERT)  
Success  
Story**

<b>Research</b>
Funded by NIEHS Grants
Translational Science, Outreach, and Education
Partnerships for Environmental Public Health (PEPH)
Grantee Highlights
2017
<b>2016</b>
2015
2014
2013
All Scientists
All Research Groups

2016

▶ Table of Contents

**Tipawan Reed – Building Program Capacity and Economic Self-Sufficiency for Underserved Populations**

December 12, 2016

Tipawan “Tippi” Reed, the former president and founder of [OAI, Inc.](#), a Chicago-based nonprofit agency, has devoted her career to providing education and workforce development to disadvantaged people for nearly 40 years. Since 1995, Reed also has been the Principal Investigator of the OAI [Hazardous Waste Worker Training Program](#) (HWWTP) Consortium and the [Environmental Career Worker Training Program](#) (ECWTP) Consortium. However, she has taken a winding path to get to where she is.



(Photo courtesy of OAI, Inc.)

Born in Thailand to Vietnamese parents, Reed always knew she wanted to do something that would have a positive impact. From an early age, she held a deep fascination with language, culture, and peoples of the world – which inspired her to move to the United States on her own when she was just 18. After completing academic degrees in cultural anthropology and adult education, she began her career teaching English as a second language and wrote grant proposals for a community college’s adult education program. Her passion to assist underserved populations continued to grow, compelling her to establish OAI. During its early stages, OAI focused on providing services to immigrants and refugees, especially those from Indochina.

**Partnerships  
for  
Environmental  
Public Health  
(PEPH)  
Grantee  
Highlight**

# Environmental Factor

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**Environmental  
Factor Story**

## NIEHS supports tribal emergency preparedness in North Dakota

By Ernie Hood

Through NIEHS support, Cliff Whitman Sr. works to make sure that tribal members on the Fort Berthold Reservation in North Dakota will be ready to act, saving lives and property, in the event of an emergency.

Whitman is the emergency manager and director for Homeland Security for the [Three Affiliated Tribes](#) (TAT) — a single organization comprised of members of the Mandan, Hidatsa, and Arikara Nations.

The Fort Berthold Reservation in central North Dakota lies in the heart of the massive Bakken oil fields. Since the introduction of hydraulic fracturing, or fracking, North Dakota has vaulted into second place in United States oil production, trailing only Texas.

### Preparing for oil transportation emergencies

Approximately 30 percent of North Dakota oil production flows from the reservation. Products from the Bakken fields are transported by truck to storage facilities, for delivery by rail and pipeline across the United States and Canada. One of the major transloading facilities, as such terminals are known, is located just outside the city limits of New Town, a community of nearly 2,000 residents and home to the TAT tribal offices.

◀ Previous Article

Next Article ▶



Oil wells like this one dot the reservation. The flare is to burn off methane, releasing volatile organic compounds. (Photo courtesy of Carol Rice)

# DOE/NIEHS Nuclear Worker Training Program

## Overview and Highlights

September 2015 -  
August 2016



## DOE/NIEHS WTP: Providing High-Quality Training Since 1993

Ensuring that DOE site workers are prepared to

- Work safely in hazardous environments
- Identify hazardous situations
- Take appropriate actions to protect themselves, fellow workers, and the environment



## Site-Specific and Trade-Specific Training

Grantees address complicated DOE sites through training, featuring a combination of nuclear, industrial, demolition, and construction activities.



# Target Occupations Include:

- Crane operators
- Carpenters
- Chemical operators
- Construction workers
- Electricians
- Environmental technicians
- Firefighters
- Laboratory technicians
- Machinists
- Painters
- Pipe fitters
- Truck drivers



## Program History: Defense Authorization

Authorized by National Defense Authorization Act: Section 3131 (FY 1992)

Implemented through Interagency Agreement with DOE

- Adapt existing NIEHS program to the DOE nuclear weapons complex.

Supports worker safety & health training for DOE

- Site clean-up activities
- Waste management
- Hazardous materials response.





## Program Awardees, 2015 - 2020

### CPWR

The Center for  
Construction  
Research and Training

### IAFF

International  
Association of  
Firefighters

### IBT

International  
Brotherhood of  
Teamsters

### ICWUC

International Chemical  
Workers Union  
Council

### IUOE

International Union of  
Operating Engineers

### PETE

Partnership for  
Environmental  
Training and  
Education

### SCEO

The Steelworkers  
Charitable and  
Educational  
Organization



National Institute of Environmental Health Sciences

*Your Environment. Your Health.*

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# Training Accomplishments

## From the beginning of the program in 1994 through 2016



39,139 Courses provided



\$199,527,472 Dollars awarded



562,230 Workers trained



\$29.13 Average cost per contact hour

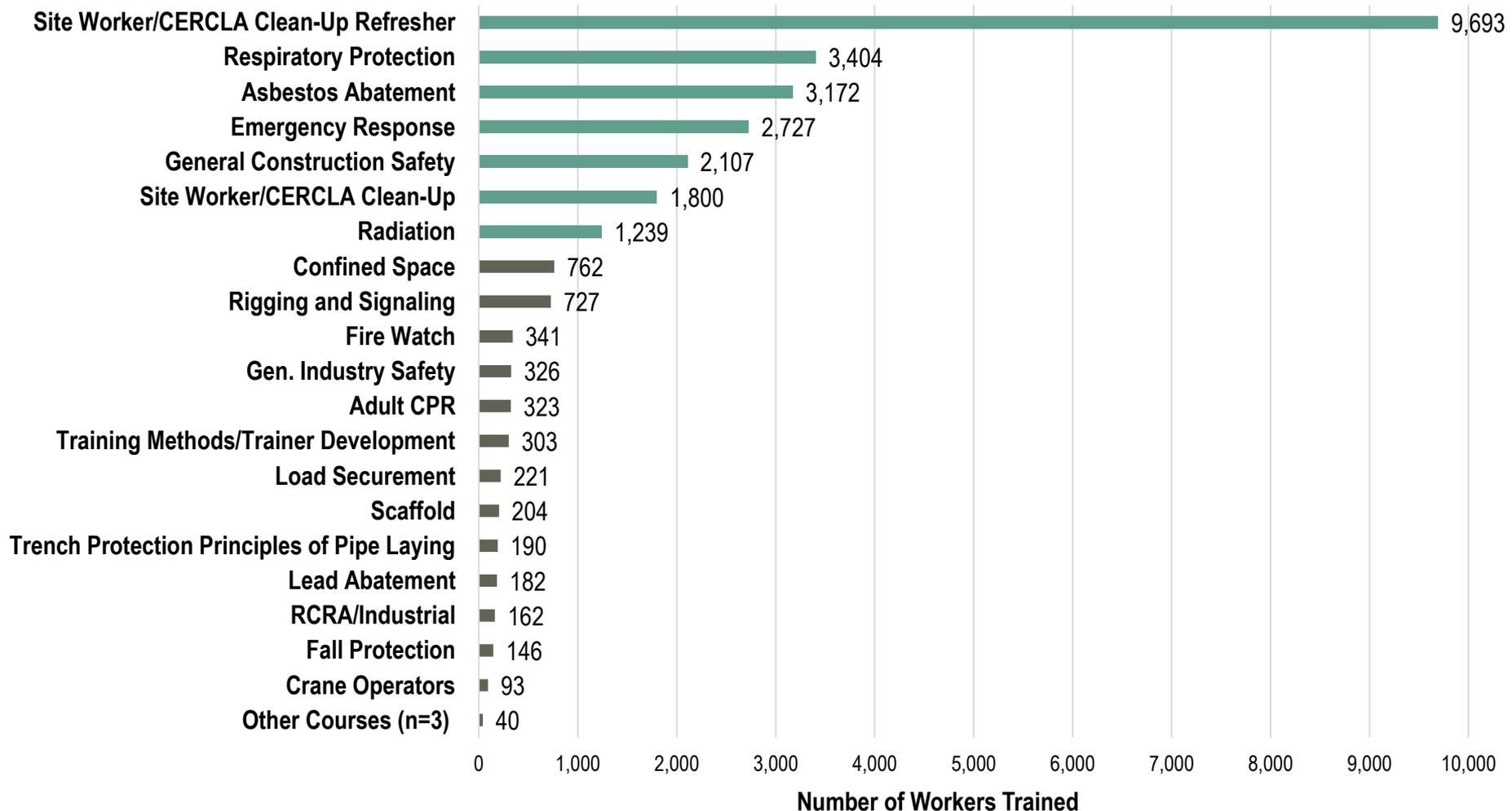


7,443,541 Contact Hours

**From September 2015–August, 2016:** 28,162 workers received 368,680 contact hours of training in 1,927 courses covering 34 DOE sites.

The table represents the number of workers trained in various course categories/courses for the NIEHS-DOE Program, Sept 1, 2015- Aug 31, 2016.

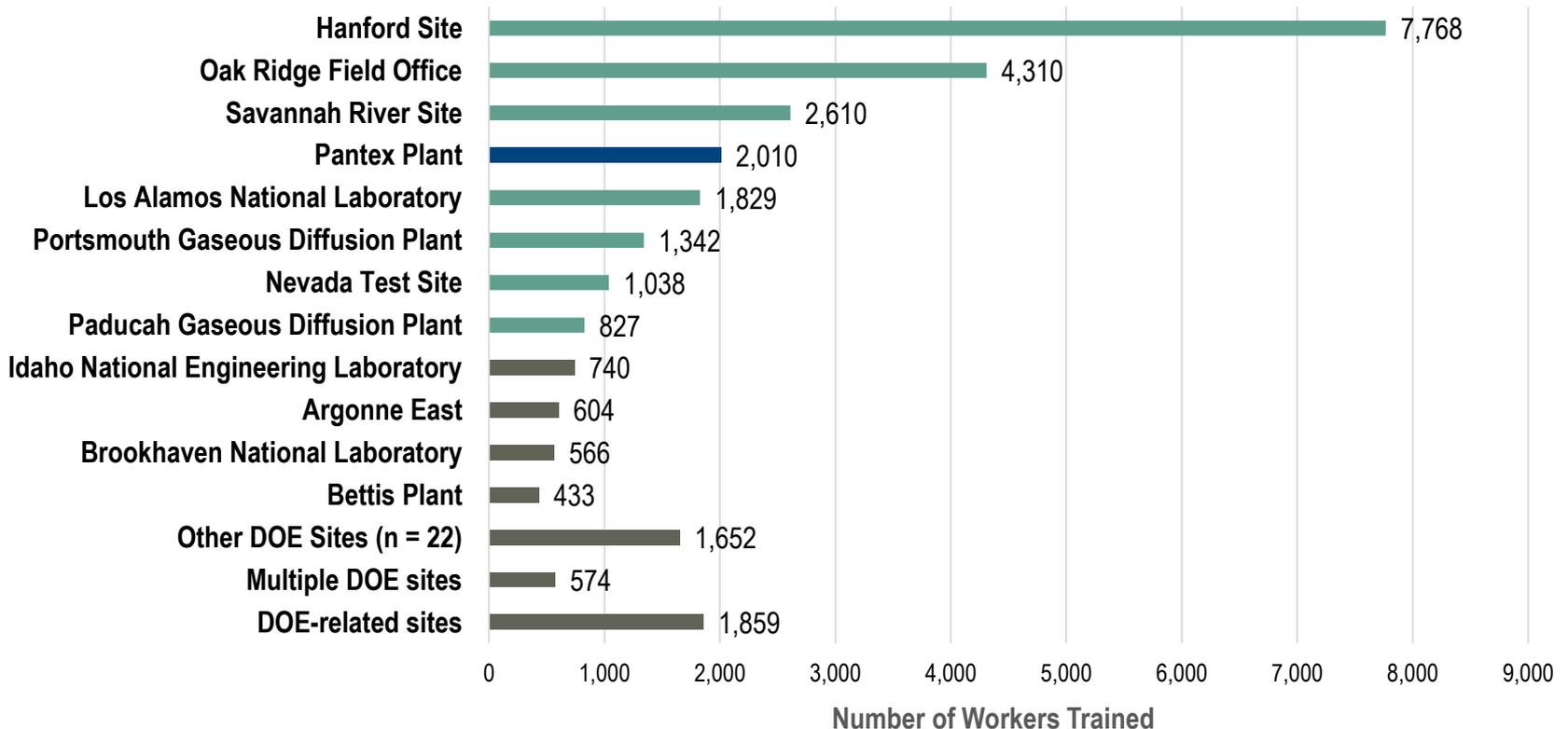
**Courses with the most workers trained (over 1,000) were all courses critical for DOE site safety.**



The table represents the number of workers trained for the DOE sites under

The highest numbers of workers trained reflect the sites with the largest site clean-up operations for the DOE Office of Environmental Management (EM), as discussed in the EM 2015 Year in Review Report.

Additionally, the Pantex Plant in Amarillo, Texas had a large number of workers trained this year. (See following highlight)



## ***Grantee Spotlight***

### **Partnership for Environmental Technology Education (PETE):**

Training for the Pantex Plant, at Amarillo Community College, Amarillo, TX



Filling a much-needed role for Pantex Plant. Over 3x as many workers were trained this budget year over prior year.

- Large hiring increase at Pantex, one-third of whom needed Hazwoper & related training.

Developed a 5-yr training plan that reduces duplication of training and enhances efficiency

- Including blended learning HAZWOPER refresher.

Amarillo provides assistance to students on job training/skills development.

## ***Grantee Spotlight***

# **Steelworker Charitable and Educational Organization's Tony Mazzocchi Center: Implementation, Evaluation, and Capacity Building**



2016: 193 training courses to 2,808 students for 33,059 hrs.

Positive 8-hr Refresher evaluation feedback, e.g.

- 96% of course participants rated excellent or good for the utility of the information received in their job or health and safety work

48 site-worker trainers, participated in ongoing trainer development.

TMC leadership - ongoing part of the DOE Integrated Safety Management approach to Health and Safety.

Conducted community-based, outreach training around DOE training sites to residents and stakeholders.



National Institute of Environmental Health Sciences

*Your Environment. Your Health.*

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# 2015-16 Activities in the DOE-NIEHS Program

## DOE Trainers' Exchange

June 7-8, 2016, Albuquerque, NM

Organized with DOE Training Institute (DTI)

30 sessions for approx. 120 participants

- 7 sessions led by NIEHS-DOE grantees
- 52 NIEHS-DOE grantees attended

Included a Labor Training Working Group Meeting

- Discuss safety culture and the development of a safety culture course.



**Evan Dunne, National Training Center**

# Integrated Safety Management System and Safety Culture Initiatives

White paper with recommendations on improving safety culture across the complex.

Supplemental grants, 2016-2017

- CPWR
  - Tailoring existing Foundations for Safety Leadership training to DOE
  - Pilot trainings in 2 DOE Sites: Oak Ridge, TN and Hanford, WA
- International Association of Firefighters
  - Expanding and enhancing a program presented on Safety Climate/Safety Culture at 2016 DOE Trainers Exchange.
  - Tailoring to include DOE-specific case studies and incidents.

## NIEHS-DOE Training Institute (DTI) Partnership

DTI brings NTC and HAMMER together to support DOE enterprise training needs. Looks to

- Achieve reduction in training redundancy.
- Introduce opportunities for cost reduction and avoidance.
- Improve training quality by ensuring a consistent enterprise message and incorporation of complex-wide lessons.

### NIEHS-DTI collaboration

- Prior years: Reciprocity for specific courses.
- This year: Formalizing the partnership with DTI.



## Feedback

What types of information should we highlight in the future? E.g.,

- Locations/sites
- Specific training courses
- Looking at courses over time
- How your work is tied to DOE clean-up goals



# **George Tucker**

**Chief Grants Management Officer**

**Grants Management Branch**

**Division of Extramural Research & Training**

**National Institute of Environmental Health Sciences**

## NIH FY 2017 Continuing Resolution

- NIH is funded under the Continuing Appropriations Act, 2017 ([Public Law 114-254](#)) signed by former President Obama on December 10, 2016 which funds the government until April 28, 2017.
- Funding is continued at 99.8 percent of FY 2016 level.
- All FY 2016 legislative mandates remain in effect.

Stay tuned for additional information!!

- <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-17-048.html>



# FY 2017 NIH Grants Policy Statement

- **The FY 17 NIHGPS and Significant Changes document was published.**
  - The [Grants Policy Statement](#) is applicable to all NIH grants and cooperative agreements with budget periods beginning on or after October 1, 2016.
  - The [Significant Changes](#) document summarizes the notable grants policy changes and clarifications implemented in the NIH GPS.

**NIH will continue to publish interim grants policy changes through the issuance of NIH Guide Notices via the NIH Guide for Grants and Contracts.**

See [NOT-OD-17-021](#) for additional information

# 21<sup>st</sup> Century Cures Act

- Landmark piece of legislation - accelerating the discovery, development and delivery of 21<sup>st</sup> century cures and other purposes.
- Reducing Administration Burden for Researchers
  - Sub-recipient monitoring
  - The care and use of laboratory animals
- Privacy and Data Access Provisions
  - Authorizes NIH Director to require funding recipients to share data
  - Requires issuance of Certificates of Confidentiality and enhances their protections
- Inclusion and Workforce Provisions
  - Ensure women, children and racial/ethnic minorities are appropriately represented in clinical research
  - Assemble data on study populations in clinical research on women, minorities, and age categories
- New Programs/Authorities
  - Precision Medicine Initiative
  - Next Generation Researchers Initiative

<https://www.congress.gov/bill/114th-congress/house-bill/34>



# POLICY UPDATES

## Budget News!! Salary Cap Changes.....

- **FY 2017**
  - **Interim Guidance on Salary Cap Limitation for Grants and Cooperative Agreements**

**The Consolidated Appropriations Act, 2016 restricts the amount of direct salary to Executive Level II of the Federal Executive pay scale.**

Limited to Executive Level II – Set at \$187,000 effective

**January 8, 2017 See NOT-OD-17-049**

<https://grants.nih.gov/grants/guide/notice-files/NOT-OD-17-049.html>



## Final Research Performance Progress Report (FRPPR)

The Final Research Performance Progress Report (F-RPPR) has replaced the Final Progress Report (FPR) for closeout effective January 1, 2017.

- The general format is the same as the interim/annual RPPR
- Recipients are required to report on Project Outcomes.
- Due dates have not changed.

\*\* Implementation of the F-RPPR for SBIR and STTR grants will occur approx. 2 months after the implementation of all other NIH grants and cooperative agreements.\*\*

See [NOT-OD-17-022](#) for additional information.



## Interim-Research Performance Progress Reports (I-RPPR)

Effective February 9, 2017, NIH requires that organizations submit an “Interim-RPPR” while their renewal application (Type 2) is under consideration.

- In the event that the Type 2 is funded, NIH will treat the Interim-RPPR as the annual performance report for the final year of the previous competitive segment.
- If the Type 2 is not funded, NIH will treat the Interim-RPPR as the institution’s Final-RPPR.

Like the Final-RPPR, recipients are required to report on Project outcomes in the Interim-RPPR.

See [NOT-OD-17-037](#) for additional information.



# Final Rule -- Federal Policy for the Protections of Human Subjects

The Final Rule – effective January 19, 2018 – is intended to enhance protections for human research participants, facilitate valuable research, and reduce burdens for investigators, research institutions, and Institutional Review Boards (IRBs).

- Studies that have not undergone initial IRB review will be subject to the new Final Rule requirements.
- Research ongoing on that date will continue to be subject to the current Common Rule requirements.
- The single IRB requirement for cooperative research vs. multi-site studies takes effect three years later (January 20, 2020).

\*\*The NIH policy on the use of single IRBs in multi-site studies takes effect in September 2017.\*\*

See [NOT-OD-17-038](#) for additional information



# NIH Policy - Use of a Single IRB for Multi-Site Research

Effective for competing grant applications with receipt dates on or after September 25, 2017.

- Domestic sites participating in multi-site studies involving non-exempt human subjects research funded by NIH are expected to use a sIRB to conduct the ethical review required by the DHHS regulations for the Protection of Human Subjects.
- Single Institutional Review Board (sIRB)  
Costs – sIRB costs can be a direct or indirect charge to an NIH award as long as such costs are reasonable and consistent with the cost principles.
- Exceptions to this policy will be made where review by the proposed sIRB would be prohibited by a federal, tribal or state law, regulation or policy. Requests for exceptions that are not based on a legal, regulatory or policy requirement will be considered if there is a compelling justification for the exception.
- FAQ's for sIRB implementation and sIRB cost have recently been posted. Any questions should be sent to [SingleIRBPolicy@mail.nih.gov](mailto:SingleIRBPolicy@mail.nih.gov).

# Revised SF424 (R&R) Application Guides and Supplemental Instructions Available

NIH application guides and supplemental instructions have been updated as of November 22, 2016.

## Key changes:

- How to Apply - Application Guide webpage: direct hyperlinks to data tables, reference letters, and biosketch format pages added.
- Plain language edits: implemented a new format and structure for application instructions.
- Biosketch clarifications in the instructions and format page.
- Multi-project applications – changes to overall component information submitted
- Appendix policy incorporated.

See [NOT-OD-17-023](#) for additional information.



# **POLICY REMINDERS**

# Reminder.....Timely Progress Reports

- Annual progress reports = RPPR format
- Due dates
  - Non-SNAP - approximately 60 days before the start of the next budget period
  - SNAP - approximately 45 days before the start of the next budget period
  - Multi-year funded - on or before anniversary date

Searchable list to determine which progress reports are due:  
<https://public.era.nih.gov/chl/public/search/progressReportByIpf.era>

# Reminder

## Timely Financial Reporting

### Federal Financial Report (FFR) (SF-425) Expenditure Data

- Annual (Non-SNAP Awards)
  - FFR submitted no later than 90 days after the end of the calendar quarter in which the budget period ended.
- Final (SNAP and Non-SNAP Awards)
  - FFR submitted within 120 days following the end of the project period



# Electronic submission & Era commons



## Automated Post Award Changes

Effective March 2, 2017, recipients of NIH awards can submit the following prior approval requests electronically through eRA Commons.

### **Prior Approval Request for Change of PD/PI**

- SOs can initiate the request for a Change of Program Director/Principal Investigator (PD/PI) electronically through eRA Commons via Prior Approval.

### **Prior Approval Request for No Cost Extension (NCE)**

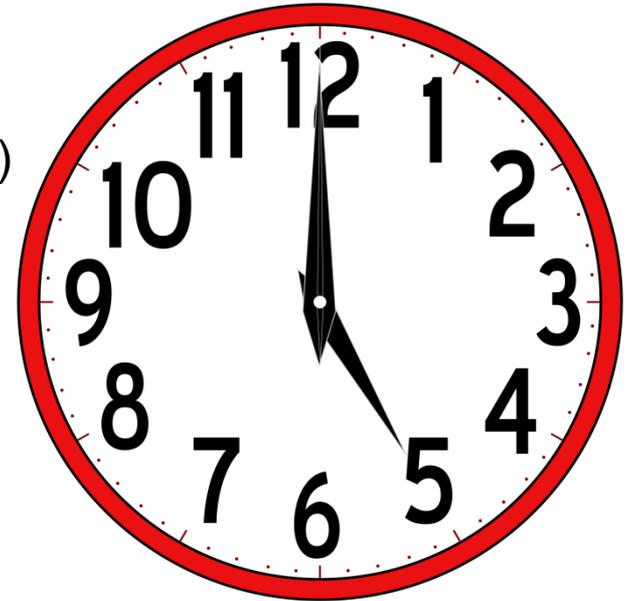
- SOs will be able to request NCEs (in addition to the requests made under expanded authority) electronically through eRA Commons via Prior Approval.

For additional details please see [eRA Commons Online Help](#)

# Finally! Tips for eSubmission Success

## Register Early!

- Required Registrations
  - System for Award Management (SAM)
  - Grants.gov and
  - eRA Commons
- Submit early!
  - Correct any errors before due date
- View your application in Commons



- **If you can't VIEW it, NIH can't REVIEW it!**

# Business Breakout Session

Royal Ballroom  
3:35pm – 5:00pm

To be presented by Pamela B. Clark – GMO/GMS  
Grants Management Branch - [evans3@niehs.nih.gov](mailto:evans3@niehs.nih.gov)

- **Topics:**

- RPPR - Progress Report Submission
- Roles and Responsibilities – (Protocols – BO/SO Signatures)
- Carryover, FFR and Supplement Processes
- Carryover versus Offset (differences)
- Additional NIH Updates



## RESOURCES: Who to Contact?

### Grants Policy:

#### Division of Grants Policy:

- E-Mail: [GrantsPolicy@mail.nih.gov](mailto:GrantsPolicy@mail.nih.gov) - Phone: 301-435-0949

#### Division of Grants Compliance & Oversight:

- E-Mail: [GrantsCompliance@mail.nih.gov](mailto:GrantsCompliance@mail.nih.gov) - Phone: 301-435-0949

#### Division of Extramural Inventions and Technology Resources:

- E-Mail: [Inventions@nih.gov](mailto:Inventions@nih.gov) - Phone: 301-435-1986

### Grants Information:

#### General Application Questions:

- E-Mail: [GrantsInfo@nih.gov](mailto:GrantsInfo@nih.gov) - Phone: 301-435-0714

#### Grants.gov Customer Support:

- E-Mail: [support@grants.gov](mailto:support@grants.gov) - Webpage: <http://grants.gov/> - Phone: 1-800-518-4726

#### eRA Commons Helpdesk:

- Web: <http://era.nih.gov/help/>
- Toll-free: 1-866-504-9552
- Phone: 301-402-7469
- Hours: Mon-Fri, 7a.m. to 8 p.m. Eastern Time



# QUESTIONS ?

