

Tuesday, October 21, 2008

7:30 a.m. - 8:30 a.m.

REGISTRATION

8:30 a.m. - 10:00 a.m.

OPENING PLENARY SESSION

Grand Station Ballroom I and II

“The Impact of Occupational Injury Research:
Science-Based Prevention at Work”

Welcome: **Christine Branche, Ph.D.**, Acting Director, NIOSH

Nancy A. Stout, Ed.D.
Division of Safety Research, NIOSH

Letitia Davis, Sc.D., Ed.M.
Massachusetts Department of Public Health

Corinne Peek-Asa, MPH, Ph.D.
University of Iowa

Audrey Nelson, Ph.D., RN, FAAN
James A. Haley Veterans Administration Medical Center

Stacy W. Smallwood, MPH
University of South Carolina

10:00 a.m. - 10:30 a.m.

BREAK

Tuesday, October 21, 2008

10:30 a.m. - 12:00 p.m.

CONCURRENT SESSION A

A1.0

Describing and Preventing Falls From Heights in Construction
Moderator: Paul Becker

Grand Station III

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|-------------------|---|------------------------|
| 10:30 a.m. | <i>Observation of Fall Risks in Residential Construction Sites</i> | Vicki Kaskutas
A1.1 |
| 10:50 a.m. | <i>Interventions for Overhead Drilling in Construction</i> | David Rempel
A1.2 |
| 11:10 a.m. | <i>Development of a Unique Fall-Prevention Guardrail System for the Construction Industry</i> | Thomas Bobick
A1.3 |
| 11:30 a.m. | <i>Plantar Vibration Effects on Postural Balance at Elevation</i> | Peter Simeonov
A1.4 |
| 11:50 a.m. | Questions and Discussion | |

A2.0

Cutting Edge Research: The NORA Intervention Evaluation Contest
Moderator: James Collins

Grand Station IV

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|-------------------|---|------------------------|
| 10:30 a.m. | <i>Applying Research to Practice: Anti-Vibration Interventions in Sheet Metal Assemblers</i> | Amanda Burwell
A2.1 |
| 10:50 a.m. | <i>Prevention of Traumatic Nail Gun Injuries in Apprentice Carpenters: Use of Population-Based Measures to Monitor Intervention Effectiveness</i> | John Dement
A2.2 |
| 11:10 a.m. | <i>A Randomized-Controlled Intervention of Machine Guarding and Related-Safety Programs in Small Metal Fabrication Businesses</i> | David Parker
A2.3 |
| 11:30 a.m. | <i>Evaluation of a Community Based Effort to Reduce Injuries and Illnesses to Wild Blueberry Harvesters</i> | Lynae Hawkes
A2.4 |
| 11:50 a.m. | Questions and Discussion | |

Tuesday, October 21, 2008

1:30 p.m. - 3:00 p.m. CONCURRENT SESSION B (cont'd)

B4.0 *Emergency Responders Safety* Brighton II
Moderator: Timothy Pizatella

1:30 p.m. *Fireground Command Decision Making: Understanding the Barriers Impacting Situation Awareness* Richard Gasaway
B4.1

1:50 p.m. *Correlation Relationship of Fire Fighter Anthropometry, Hand Grip and Lateral Thumb Pinch Peak Strength Measurement* James Spahr
B4.2

2:10 p.m. *Identifying and Preventing Traumatic Injuries in Hazardous Material Events, the Experience of 14 Hazardous Substances Emergency Events Surveillance System States* Chrystine Kelley
B4.3

2:30 p.m. *NIOSH's Fire Fighters Fatality Investigation Program Raises Awareness of Quiet Alarms* Robert Stein
B4.4

2:50 p.m. Questions and Discussion

B5.0 *The Relationship of Organizational Culture, Climate, and Safety* Brighton IV
Moderator: Robyn Gershon

1:30 p.m. *Narratives in Safety and Health Communications* Mitch Ricketts
B5.1

1:50 p.m. *The Role of Organizational Policies and Practices in Injury Prevention and the Management and Prevention of Work Disability* Benjamin Amick, III
B5.2

2:10 p.m. *Safety Culture in Extended Care: The Innovation Project* Waqar Mughal
B5.3

2:30 p.m. *Inter-Rater Reliability Assessment of an OH&S Management System Audit Tool* Anna Matheson
B5.4

2:50 p.m. Questions and Discussion

3:00 p.m. - 3:30 p.m. BREAK

Tuesday, October 21, 2008

3:30 p.m. - 5:00 p.m.

CONCURRENT SESSION C

C1.0

Ladder Safety

Moderator: Hongwei Hsiao

Grand Station III

3:30 p.m.

Prevalence of Hazards Associated With Falls from Stepladders and Targets for Intervention

Chris Ronk
C1.1

3:50 p.m.

Portable Ladder Tool Development and Validation—Quantifying Best Practice in the Field

Jack Dennerlein
C1.2

4:10 p.m.

Can a CSA Standard Certified Type-2 Ladder Design Hold a 0.41m Free Fall?

Brian Varrasso
C1.3

4:30 p.m.

Effect of Ladder Types on Energy Expenditure, Forearm Force Exertion and Climbing Behavior

Peter Vi
C1.4

4:50 p.m.

Questions and Discussion

C2.0

Intervention Evaluation in Healthcare Settings

Moderator: James Collins

Grand Station IV

3:30 p.m.

Musculoskeletal Injuries Resulting From Patient-Handling Activities Among Hospital Workers

Lisa Pompeii
C2.1

3:50 p.m.

The Importance of Observational Methods in Intervention Evaluation: Patient-Handling Injuries at Two Hospitals Before and After Implementation of Patient Lifting Equipment

Ashley Schoenfisch
C2.2

4:10 p.m.

Evaluation of a Comprehensive Slip, Trip, and Fall Prevention Program for Hospital Employees

Jennifer Bell
C2.3

4:30 p.m.

Evaluation of the Impact of Workers' Compensation Sponsored Interventions on Musculoskeletal Injuries in Nursing Homes

Robert Park
C2.4

4:50 p.m.

Questions and Discussion

Tuesday, October 21, 2008

3:30 p.m. - 5:00 p.m.

CONCURRENT SESSION C (cont'd)

C3.0

Characterizing and Preventing Injuries to Hispanic Workers

Grand Station V

Moderator: Cammie Chaumont Menéndez

3:30 p.m.

Hand Injury Outcomes in Hispanic Workers: Translation and Validation of the DASH Questionnaire

Linda Forst
C3.1

3:50 p.m.

Exploring the Excess Burden of Traumatic Workplace Injury to Hispanic Workers in Heavy Manufacturing

Keisha Pollack
C3.2

4:10 p.m.

Preventing Hispanic Fatalities

Virgil Casini
C3.3

4:30 p.m.

Fatal Occupational Falls Among Hispanic Construction Workers, 1992-2006

Sue Dong
C3.4

4:50 p.m.

Questions and Discussion

C4.0

Needlestick Injuries Among Healthcare Workers

Brighton II

Moderator: Letitia Davis

3:30 p.m.

Blood and Body Fluid Exposure Risks in Operating Room

Douglas Myers
C4.1

3:50 p.m.

Cost of Needlestick Injuries and Subsequent Hepatitis and HIV

Paul Leigh
C4.2

4:10 p.m.

Development of an Evidence-based Evaluation Framework for a Safety Engineered Needle Program

Prescillia Chua
C4.3

4:30 p.m.

Blood Exposure in the Home Care Workplace: Comparing Risks Among Registered Nurses and Personal Care Assistants

Carla Storr
C4.4

4:50 p.m.

Questions and Discussion

Tuesday, October 21, 2008

3:30 p.m. - 5:00 p.m. **CONCURRENT SESSION C (cont'd)**

C5.0 ***Assessing the Safety Experience in Coal Mining*** **Brighton IV**
Moderator: Gail McConnell

3:30 p.m. *From Scotia to Brookwood, Fatal U.S. Underground Coal Mine Explosions Ignited in Intake Air Courses* Thomas Dubaniewicz, Jr.
C5.1

3:50 p.m. *Effect of Mine Size on the Rate and Type of Fatal Accidents in Underground Coal* Linda McWilliams
C5.2

4:10 p.m. *Expectations Training for Self-Contained Self Rescuers in Escape from Underground Coal Mines* Kathleen Kowalski-Trakofler
C5.3

4:30 p.m. *Workers' Compensation Insurance Costs Associated With Rockfall Injuries in Underground Coal Mines* Suresh Bhatt
C5.4

4:50 p.m. Questions and Discussion

5:30 p.m. - 7:30 p.m. **POSTER SOCIAL**
Sheraton Station Square
Admiral Room

Wednesday, October 22, 2008

8:30 a.m. - 10:00 a.m. CONCURRENT SESSION D (cont'd)

D3.0 *Nonfatal Injury Prevention Activities in Other Countries* **Grand Station V**
Moderator: Larry Jackson

- 8:30 a.m.** *A Method to Calculate the Period Prevalence of Workers Receiving Compensation Benefits* Richard Phaneuf D3.1
- 8:50 a.m.** *Patterns of Severe Work-Related Traumatic Hand Injury in the People's Republic of China* Kezhi Jin D3.2
- 9:10 a.m.** *Prevalence and Predictors of Work-Related Injuries Among Children Laboring in the Streets of Latin America* Angela Pinzon-Rondon D3.3
- 9:30 a.m.** *Development and Evaluation of an Intervention Study to Prevent Injuries at Work Among Stevedores in Havana* Caristina Robaina Aguirre D3.4
- 9:50 a.m.** Questions and Discussion

D4.0 *Identifying and Characterizing Injuries in Agriculture* **Brighton II**
Moderator: James Harris

- 8:30 a.m.** *Statewide Surveillance of New York Farm Injuries: An EMS-based Method* Melissa Brower D4.1
- 8:50 a.m.** *Occupational Injury Rates and Treatment Patterns Among Migrant and Seasonal Farm Workers in the Northeast* Giulia Earle-Richardson D4.2
- 9:10 a.m.** *Impact on the Agricultural Industry: Animal-Related Injuries* Susan Gerberich D4.3
- 9:30 a.m.** *Injury Severity Related to Overturn Characteristics of Tractors* Melvin Myers D4.4
- 9:50 a.m.** Questions and Discussion

Wednesday, October 22, 2008

10:30 a.m. - 12:00 p.m. CONCURRENT SESSION E (cont'd)

E2.0 *Physical and Ergonomic Risk Factors Associated With Slips* **Grand Station IV**
Moderator: Sharon Chiou

- 10:30 a.m.** *Physics-Based Computational Modeling for Shoe-Floor-Contaminant Friction* Kurt Beschoner E2.1
- 10:50 a.m.** *The Stochastic Distribution of Available Friction Coefficient for Human Locomotion* Wen-Ruey Chang E2.2
- 11:10 a.m.** *Assessing Floor Slipperiness: The Effects of Friction and Perception on Gait* Chien-Chi Chang E2.3
- 11:30 a.m.** *Influence of Localized Muscle Fatigue of the Knee Joint on Kinematics and Kinetics Related to Slip-induced Falls* Thurmon Lockhart E2.4
- 11:50 a.m.** Questions and Discussion

E3.0 *Injury Assessment and Methods* **Grand Station V**
Moderator: Suzanne Marsh

- 10:30 a.m.** *Modeling Occupational Low Back Injury Risk Due to Repeated Joint Loading* Waqar Mughal E3.1
- 10:50 a.m.** *Comparison of Injury Types and Severity Among Workers Admitted to Hospitals vs. Treated in Emergency Departments* Patricia Dischinger E3.2
- 11:10 a.m.** *Work-Related Physical and Psychosocial Exposures are Risk Factors for Incident Symptoms and Functional Impairment of the Hands and Wrists* Bradley Evanoff E3.3
- 11:30 a.m.** *Etiology of Work-Related Electrical Injuries: A Novel Taxonomy and In-Depth Narrative Analysis of Workers' Compensation Claims* David Lombardi E3.4
- 11:50 a.m.** Questions and Discussion

Wednesday, October 22, 2008

10:30 a.m. - 12:00 p.m. CONCURRENT SESSION E (cont'd)

E4.0 *Youth in Agriculture* **Brighton II**
Moderator: Susan Gerberich

10:30 a.m. *Identifying Determinants of Being a Child Bystander on
Midwestern Agricultural Operations* Quintin Williams, Jr.
E4.1

10:50 a.m. *Farm Chores Worked by Youth and Adherence to the North
American Guidelines for Children's Agricultural Tasks* Jay Wilkins
E4.2

11:10 a.m. *Enhancing Adherence to the North American Guidelines for
Children's Agricultural Tasks* Catherine Heaney
E4.3

11:30 a.m. *Using Longitudinal Data Analysis Methods to Assess the
Effectiveness of the North American Guidelines for Children's
Agricultural Tasks in Reducing Childhood Agricultural Injury Risk* Jay Wilkins
E4.4

11:50 a.m. Questions and Discussion

E5.0 *Assessing Injury Risk Factors* **Brighton IV**
Moderator: Theodore Courtney

10:30 a.m. *Gender Differences in Injury Patterns Among Workers in
Heavy Manufacturing* Linda Cantley
E5.1

10:50 a.m. *Acute Injury and Heat Stress Level in an Aluminum Smelter* Thomas Bernard
E5.2

11:10 a.m. **A Case-Crossover Study of Occupational Laceration Injuries in
Pork Processing: Methods and Preliminary Findings* Lina Lander
E5.3

11:30 a.m. **A Descriptive Study of Workers' Compensation Claims in
Washington State Orchards* Jon Hofmann
E5.4

11:50 a.m. Questions and Discussion

* Winning submissions for the Liberty Mutual Student Paper Contest

12:00 p.m. - 1:30 p.m. LUNCH (On Your Own)

Wednesday, October 22, 2008

1:30 p.m. - 3:00 p.m.

CONCURRENT SESSION F

F1.0

Injury Prevention in Construction - II
Moderator: David Fosbroke

Grand Station III

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|------------------|---|--------------------------|
| 1:30 p.m. | <i>Applying NIOSH Prevention Through Design to Electrical Hazards in Construction Work Environments</i> | Landis Floyd
F1.1 |
| 1:50 p.m. | <i>Construction Safety Training Issues for Hispanic Construction Employees</i> | James McGlothlin
F1.2 |
| 2:10 p.m. | <i>A Community-based Participatory Approach to Prevent Falls Among Latino Construction Workers</i> | Maria Brunette
F1.3 |
| 2:30 p.m. | <i>Reducing Exposure to Pedestrian In Blind Zones</i> | Spencer Barclay
F1.4 |
| 2:50 p.m. | Questions and Discussion | |

F2.0

Workplace Violence in Healthcare Settings
Moderator: Daniel Hartley

Grand Station IV

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| 1:30 p.m. | <i>Emergency Department Security Programs, Community Crime, and Employee Assaults</i> | James Blando
F2.1 |
| 1:50 p.m. | <i>Hospital Employee Assault Rates Before and After Enactment of the California Hospital Safety and Security Act</i> | Carri Casteel
F2.2 |
| 2:10 p.m. | <i>Evaluation of Workplace Violence at a Tertiary Hospital</i> | Magdalena Meudra Sánchez
F2.3 |
| 2:30 p.m. | <i>Workplace Violence Prevention in Public Sector Addiction Treatment Centers</i> | Kate McPhaul
F2.4 |
| 2:50 p.m. | Questions and Discussion | |

Wednesday, October 22, 2008

3:30 p.m. - 5:00 p.m. CONCURRENT SESSION G (cont'd)

G4.0 *Effects of Work Organization on Safety* **Brighton II**
Moderator: Fred Blosser

- 3:30 p.m.** *Risk Evaluation Index of Psychophysical Hazard Exposures in Electronics and Garments* Jinky Leilanie Lu
G4.1
- 3:50 p.m.** *Cancelled* G4.2
- 4:10 p.m.** *Safety Issues in the Workplace Confronting Those in Extended Shift Work* Jinky Leilanie Lu
G4.3
- 4:30 p.m.** *Health Outcomes Associated With Perceived Work Stress in Police Officers* Robyn Gershon
G4.4
- 4:50 p.m.** Questions and Discussion

G5.0 *Systematic Review of Occupational Injury Literature* **Brighton IV**
Moderator: Bradley Evanoff

- 3:30 p.m.** *Workplace Injury/Illness Prevention and Loss Control Programs: A Series of Systematic Reviews* Shelley Brewer
G5.1
- 3:50 p.m.** *Sharing Best Evidence: Results From Four Systematic Reviews of the Occupational Health and Safety Literature* Emma Irvin
G5.2
- 4:10 p.m.** *A Review of the Literature on Process and Implementation of Participatory Ergonomics* Dwayne Van Eerd
G5.3
- 4:30 p.m.** *Interventions in Healthcare Settings to Protect Musculoskeletal Health: A Systematic Review* Jessica Tullar
G5.4
- 4:50 p.m.** Questions and Discussion

Thursday, October 23, 2008

8:30 a.m. - 10:00 a.m.

CONCURRENT SESSION H

H1.0

Using Surveillance Systems to Identify Injury Characteristics in Construction

Grand Station III

Moderator: David Fosbroke

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|------------------|---|---------------------------|
| 8:30 a.m. | <i>Fatal and Nonfatal Injuries in Construction Industry, 1992-2006</i> | Sue Dong
H1.1 |
| 8:50 a.m. | <i>Are Back Injuries in Carpenters Decreasing or Not?</i> | Hester Lipscomb
H1.2 |
| 9:10 a.m. | <i>Fractures in Construction—Activities, Events, Sources, and Disability Duration</i> | Theodore Courtney
H1.3 |
| 9:30 a.m. | <i>Relationships Between Medical Care and Paid Lost Time From Work After Work-Related Back Injury Among Washington State Union Carpenters</i> | Kristen Kucera
H1.4 |
| 9:50 a.m. | Questions and Discussion | |

H2.0

Injury Experience of Public Safety Workers

Grand Station IV

Moderator: Anita Schill

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| 8:30 a.m. | <i>Evaluating the Ambulance Patient Compartment as a Work Environment Using Digital Human Modeling Tools</i> | Douglas Ammons
H2.1 |
| 8:50 a.m. | <i>Occupational Injury Experiences of EMS Providers</i> | Rebecca Heick
H2.2 |
| 9:10 a.m. | <i>Occupational Safety and Health for Public Safety Employees: Assessing the Evidence and Implications for Public Policy</i> | Seth Seabury
H2.3 |
| 9:30 a.m. | <i>Contrasting the Transportation Safety Data for Emergency Medical Services With Other Commercial Vehicles</i> | Nadine Levick
H2.4 |
| 9:50 a.m. | Questions and Discussion | |

Thursday, October 23, 2008

10:30 a.m. - 12:00 p.m.

CLOSING PLENARY SESSION

Grand Station Ballroom I

“Using Evidence-Based Results to
Change Industry Practice”

Moderator: **Nancy A. Stout, Ed.D.**
Division of Safety Research, NIOSH

James Collins, Ph.D.
Division of Safety Research, NIOSH

Joseph Feldstein, B.S.
Mining Safety Appliances Corporation

Dave Eherts, Ph.D, CIH
Sikorsky Aircraft Corporation

Brad Boehler, P.Eng.
Skyjack Manlift Corporation

Steve Spata, BSME
National Truck Equipment Association