

## ***NOIRS Participants,***

*Welcome to the first National Occupational Injury Research Symposium (NOIRS). I am very pleased at the tremendous response of the occupational injury research and prevention community to this unique meeting. We received nearly 200 abstracts and have about 350 pre-registered participants, which far exceeded our expectations. As a result, the NOIRS agenda is broad and diverse, and represents some of the best work being done in the world in occupational injury epidemiology, safety engineering, social science, risk analysis, and many other disciplines and research areas.*

*NOIRS would not have been possible without the support and contributions of our co-sponsors. I would like to recognize and thank our co-sponsors for supporting NOIRS, for reviewing abstracts, for helping to promote NOIRS through their publications and news releases, for serving as moderators, for assisting in planning the program, and, in general, for their overall enthusiasm. These co-sponsors are the **American Association of Occupational Health Nurses (AAOHN)**; the **American College of Occupational and Environmental Medicine (ACOEM)**; the **American Physical Therapy Association (APTA)**; the **American Society of Safety Engineers (ASSE)**; the **Center to Protect Workers' Rights (CPWR)**; the **Fogarty International Center, National Institutes of Health**; the **Harvard University School of Public Health**; the **Johns Hopkins University School of Public Health**; the **Liberty Mutual Research Center**; the **National Safety Council (NSC)**; and the **University of Iowa, Institute for Rural and Environmental Health**. A special thanks to the AAOHN, the APTA, and the ASSE for providing complimentary refreshments during our break times, as well as lunches on the two full days of the Symposium.*

*NOIRS is an exciting result of partnerships, which are foundation of the way that NIOSH does business and the hallmark of the National Occupational Research Agenda (NORA). Through NORA, NIOSH will continue to provide a forum for the presentation of diverse, state-of-the-art occupational injury research and serve as a catalyst in the development of partnerships and collaborations among the disciplines and sectors with a common interest in research leading to prevention.*



***Linda Rosenstock, M.D., MPH***  
*Director, National Institute for Occupational  
Safety and Health*

## General Information

### Purpose and Objectives of NOIRS

This **National Occupational Injury Research Symposium (NOIRS)** was originally conceived as a means of implementing the National Occupational Research Agenda (NORA) for traumatic occupational injuries. NORA was formulated through the cooperative efforts of business, labor, academia, safety and health, and government leaders under the sponsorship of the National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention.

Currently, in the United States, there is no national conference or symposium devoted to occupational injury research. NOIRS was initiated and designed to:

- provide a forum for the presentation of scientific research findings and methods in the field of traumatic occupational injury
- foster collaboration among researchers in the various disciplines and among the public and private organizations that conduct or sponsor traumatic occupational injury research
- identify effective interventions, and increase injury prevention efforts based on research findings
- stimulate an increase in the quantity and quality of traumatic occupational injury research
- in addition to traditional disciplines and topic areas, explore nontraditional disciplines and topic areas of traumatic occupational injury research, such as the economics of occupational injury and other social and behavioral science fields
- serve as an element in the implementation of NORA.

Symposium participants include occupational injury researchers from all disciplines, as well as safety practitioners, health care professionals, administrators, employers, manufacturers, educators and trainers, advocates, communicators, regulators, policy makers, insurers, health and science reporters, students, and workers.

### Color Key for Name Badge Ribbons

<b>Keynote Speakers:</b>	WHITE ribbons
<b>Speakers and Moderators:</b>	GREEN ribbons.
<b>Press:</b>	YELLOW ribbons
<b>NOIRS Agenda Committee:</b>	PURPLE ribbons.
<b>Symposium Staff:</b>	RED ribbons.
<b>Session Room Monitors:</b>	YELLOW ribbons

Symposium staff are available to assist you with registration, accommodations, messages, logistics, and any other special needs or questions.

### **Name Badges**

The identification badge you receive at registration will be your pass to the NIOSH facility during the symposium. The badge must be worn at all times while inside the NIOSH building.

### **Messages and Telephones**

A message board has been provided in the corridor near Room 1046. Public telephones are adjacent to the message board. The symposium phone number for incoming calls is (304) 285-5819. If fax services are required, a symposium staff member will assist.

### **Transportation**

Complimentary bus service will be provided daily from Ramada Inn, Lakeview Resort, Hampton Inn, Euro-Suites, and the NIOSH Suncrest Facility. Schedules are posted in the lobby at the meeting site and at each hotel. Parking is extremely limited at NIOSH, and participants are encouraged to use the shuttles. All participants must enter the NIOSH building through the front lobby.

### **Smoking**

NIOSH has been designated as a SMOKE-FREE ENVIRONMENT. In keeping with this health policy, NOIRS has also been designated SMOKE FREE. The security guard will direct you to a designated smoking area, if you smoke.

### **Open Seating Policy**

Seating for all sessions of the symposium will be on a first-come, first-seated basis for preregistered participants. Because of the large number of preregistered participants, participants who register onsite are requested to be seated last. Since it is not possible to determine the number of participants interested in specific concurrent sessions, we urge that you review the agenda and select an alternate session in the event your first choice is filled.

Plenary Sessions will be envisioned to Rooms 3045 and 138, and overflow seating will be available.

### **Poster Session**

The NOIRS poster session will be held at Lakeview Resort and Conference Center from 6:00 p.m. to 8:00 p.m. Wednesday, October 15. A bus will depart the NIOSH building hourly beginning at 1:00 p.m. to allow poster presenters the opportunity to display their materials. At 5:30 p.m., buses will be available to shuttle participants to Lakeview for the session. Buses will depart Lakeview at 8:30 p.m. to return participants to their hotels and to the Prete Building. If a sufficient number wish to remain at Lakeview for dinner, a return bus will be available at 10:15 p.m.

### **Attendance/CE Assessment/Evaluation Forms**

Forms will be distributed in each session. If you are seeking continuing education credits, the form must be completed at the close of the session and dropped in a box provided before you leave the room.

Your evaluation of each session will be helpful to NIOSH in planning for future meetings; therefore, completion of the evaluation is encouraged and appreciated.

## ACCREDITATION STATEMENTS

### **Continuing Medical Education Credits**

The Centers for Disease Control and Prevention (CDC) is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education (CME) for physicians. The Society for Health Care Epidemiology of America, Inc., and the American Hospital Association, in joint sponsorship with CDC designates this continuing medical education activity for 15 credit hours in Category 1 of the Physician's Recognition Award of the American Medical Association.

### **Continuing Education Units**

This program has been structured following the International Association for Continuing Education and Training (IACET) Criteria and Guidelines and therefore is awarding Continuing Education Units (CEUs). The Centers for Disease Control and Prevention (CDC) will award 1.5 CEUs to each participant who successfully completes this training. The CEU is a nationally recognized unit designed to provide a record of an individual's continuing education accomplishments.

### **Continuing Education in Nursing**

The Centers for Disease Control and Prevention (CDC) is accredited as a provider of Continuing Education in Nursing by the American Nurses Credentialing Center's Commission on Accreditation. CDC will award a maximum of 18 contact hours to nurses who complete this training.

Nurses must register for further instructions in the registration area at the table designated "Continuing Education."

### **Certification Maintenance Points for Industrial Hygienists**

The American Board of Industrial Hygiene has, under Certification Maintenance Approval #6211, approved 1.5 certification maintenance points for industrial hygienists who attend all sessions.

*Validation of earned credits will be sent to participants following the symposium.*

## ACKNOWLEDGMENTS

NIOSH gratefully acknowledges the invaluable assistance and support received from the following NOIRS co-sponsors:

**American Association of Occupational Health Nurses**  
**American College of Occupational and Environmental Medicine**  
**American Physical Therapy Association**  
**American Society of Safety Engineers**  
**Center to Protect Workers' Rights**  
**Johns Hopkins University School of Public Health, Educational Resource Center**  
**Fogarty International Center for Advanced Study in Health Sciences, NIH**  
**Harvard University School of Public Health, Educational Resource Center**  
**Liberty Mutual Research Center**  
**National Safety Council**  
**University of Iowa Institute for Rural and Environmental Health**

Special acknowledgments are made to the following committees and staff for their support and dedication to this symposium:

### **AGENDA/PROGRAM PLANNING COMMITTEE**

**David E. Fosbroke, MSF**  
**William E. Halperin, M.D., MPH**  
**Hongwei Hsiao, Ph.D.**  
**Suzanne M. Kisner, B.S.**  
**Douglas P. Landsittel, Ph.D .**  
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**Timothy J. Pizatella, M.S.**  
**Rebecca Stanevich, MPH, COHN**  
**Nancy A. Stout, Ed.D.**

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### **NOIRS ORGANIZATION COMMITTEE**

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<b>Scott A. Hendricks</b>	<b>Barbara J. Phillips</b>	<b>James T. Wassell, Ph.D.</b>
<b>Hongwei Hsiao, Ph.D.</b>	<b>Timothy J. Pizatella</b>	<b>Rex S. Wolfe</b>

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### **NOIRS LOGISTICS COMMITTEE**

<b>Martha Brocato, MEETING PLANNER</b>	<b>Linda L. Morton</b>
<b>Jim DeBerry</b>	<b>Michael M. Roder</b>
<b>Judith K. Fields</b>	<b>Louis D. Smith</b>
<b>Doris J. Hart</b>	<b>Joyce R. Spiker</b>
<b>Richard D. Kennedy</b>	<b>Marc C. Weese</b>
<b>Herbert I. Linn</b>	<b>Gary M. Williams, TEAM LEADER</b>
<b>Mike Moore</b>	<b>Robert K. Wolfe</b>

## NOIRS Agenda

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The following icons were created to make it easier for you to find the sessions and individual presentations and posters of interest. If a session is devoted entirely to one topic area, the icon will appear to the right of the session title in the agenda. If an individual presentation or poster is related to any of these topic areas, a smaller icon will appear to the left of the presentation or poster title.



**Adolescent Workers**



**Agricultural Injury**



**Construction**



**Engineering/Protective Technology**



**Health Care**



**Mining**



**Injury Risk Assessment**



**Social/Economic Impact of Injury**



**Injury Surveillance**



**Occupational Violence**

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**National Occupational Injury Research Symposium--Final Agenda**  
**DAY ONE: Wednesday, October 15, 1997**

7:00 a.m. to 8:30 a.m.                      **REGISTRATION**

8:30 a.m. to 10:00 a.m.                  **Opening Plenary Session**

Introduction

**Nancy A. Stout**  
Director, DSR, NIOSH

Welcoming Remarks

**Linda Rosenstock**  
Director, NIOSH

**Keynote Address**

*Occupational Injury Research from the  
Public Health Perspective*

**Susan Baker**  
Johns Hopkins University

**Keynote Address**

*Occupational Injury Research from the  
Safety Sciences Perspective*

**Gerard Scannell**  
President, National Safety Council

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

10:30 a.m. - 12 noon                      **CONCURRENT SESSIONS**

**Session 1: Fatal Construction Injuries**

Moderator: David E. Fosbroke

*Room: 1047*



*Guiding construction industry research:  
Data coupled with industry experience*

**David E. Fosbroke**  
NIOSH

*Work-related fatal injury risk of construction  
workers by occupation and cause of death*

**Guang-Xiang Chen**  
NIOSH

*Preventing injuries and fatalities in  
highway construction work zones*

**Kenneth W. Hoffner, Jr.**  
Laborers' Health and Safety Fund

*Machinery-related fatalities in the  
U.S. construction industry, 1980-1992*

**Stephanie G. Pratt**  
NIOSH

**Session 2: Manual Material Handling**

Moderator: Mohammed M. Ayoub

*Room 1046*



*Manual materials handling research:  
What we should know*

**Mohammed M. Ayoub**  
Texas Tech University

*Risk factors of muscle injury and falls  
related to load handling technique*

**Lars I. E. Oddsson**  
Boston University

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*Evaluation of the effect on spinal curvature of various lifting regimens and recovery techniques*

**Craig T. Evers**  
Purdue University

*EMG analysis of fatigue during repetitive work*

**Serge H. Roy**  
Neuromuscular Research Center

**Session 3: Human and Economic Costs of Occupational Injuries:  
Research on the Frontiers (INVITED SESSION)**

Moderator: Leslie I. Boden

*Room: 3045*



*The human costs of occupational injuries*

**Lee Strunin**  
Boston University

*Integrating results from quantitative and qualitative studies of workers with soft tissue injuries*

**Harry S. Shannon**  
Institute for Work and Health

*Occupational injury costs per employee:  
Pinpointing the risks*

**Ted R. Miller**  
National Public Services Research  
Institute

**Session 4: Work Organization**

Moderator: Janet C. Haartz

*Room: 1048*

*Encouraging worker participation in safety programs: A selected review of research findings*

**Robert H. Peters**  
PRC, NIOSH



*Management practices affecting safety: An overview of coal industry research findings*

**Robert H. Peters**  
PRC, NIOSH

*Reducing accident rates with organizational performance management*

**Kaija Leena Saarela**  
Finnish Institute of Occupational Health



*The relationship between safety climate and injury/exposure in an acute care hospital*

**Robyn R. M. Gershon**  
Johns Hopkins University

**Session 5: Injury Risk Assessment (INVITED SESSION)**

Moderator: James T. Wassell

*Room: 4045*



*Some methodological concerns in the development of predictive models: Examples from discriminate analysis*

**Edward A. Clancy**  
Liberty Mutual Research Center  
for Safety and Health

*Quantifying and aiding laymen understanding of risk*

**Bernard L. Cohen**  
University of Pittsburgh

*Burden due to occupational hazard*

**Arnab K. Acharya**  
Harvard University

Discussant: John R. Myers

12 noon to 1:30 p.m.

**LUNCH**

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

**CONCURRENT SESSIONS**

**Session 6: Nonfatal Injuries in Construction**

Moderator: Tom Broderick

Room: 1047



*Construction injury rates may exceed national estimates: Evidence from the construction of Denver International Airport (DIA)*

**Judith E. Glazner**  
University of Colorado

*Risk factors for injury among construction workers on the Denver International Airport project*

**Jan T. Lowery**  
University of Colorado

*Trade-specific injury rates at a large construction project*

**Laura S. Welch**  
Washington Hospital Center

*Occupational injury and fatality patterns of females employed in the construction industry: Kentucky, 1991-95*

**Jonathan R. Mays**  
Kentucky Injury Prevention and Research Center

*Injuries among North Carolina residential construction workers, 1986-1994*

**John M. Dement**  
Duke University

**Session 7: Ergonomics and Safety Assessment Methodology**

Moderator: Hongwei Hsiao

Room: 1046



*A review of methods for estimating the amplitude of the surface electromyogram (EMG): A window into assessing muscular effort in musculoskeletal injuries*

**Edward A. Clancy**  
Liberty Mutual Research Center for Safety and Health

*Assessment of a cartographer's workstation*

**John S. Pentikis**  
U.S. Army Center for Health Promotion and Preventive Medicine

*Preventing accidents caused by unrecognized roof beam failures in underground stone mines*

**Anthony T. Iannacchione**  
PRC, NIOSH

*SCOPE: System for the classification of operator performance events*

**Edward A. Kapp**  
University of Wisconsin

*Concrete shoring systems loads and safe design*

**Dryver R. Huston**  
University of Vermont

**Session 8: Social and Economic Impact of Occupational Injuries**

Moderator: Elyce A. Biddle

*Room: 3045*



*Social and economic impact of occupational back and upper extremity injuries: A pilot study*

**Glenn S. Pransky**  
University of Massachusetts

*National costs of occupational injuries in 1992*

**J. Paul Leigh**  
San Jose State University

*Return to work following traumatic injury: A prospective study on the effect of trauma on patients' working lives*

**Jeffrey S. Petersen**  
University of California



*Gaining an economic view of construction-related injury: Integrating quantitative and qualitative data*

**Pamela S. Kidd**  
Kentuck Injury Prevention and Research Center

*Measuring the injury severity of occupational injuries*

**Marion E. Gillen**  
University of California

**Session 9: Methodologies Used to Collect and Analyze Surveillance Data**

Moderator: Gordon S. Smith

*Room: 1048*



*Formal safety analysis methods as tools for hazard surveillance in mining*

**J. Charles Kerkering**  
SRC, NIOSH

*Surveillance of disaster--A view from the denominator*

**Robert F. Chaiken**  
PRC, NIOSH

*The effect of using death certificate information on industry and occupation specific fatality rates*

**Susanne H. Wolf**  
University of North Carolina

*Fatal occupational injury in North Carolina: Using capture-recapture methods to ascertain and evaluate annual mortality from multiple data sources*

**Elizabeth G. Hooten**  
University of North Carolina

**Session 10: Measuring the Risk for Occupational Injury**

Moderator: A. John Bailer

Room: 4045



*A decision model for use in the allocation of safety and health resources*

**Barry J. Warrack and Ted Redekop**  
Manitoba Labor

*Re-conceptualization of measuring musculoskeletal disorders: A pilot test of telecommunications workers*

**Joan Griffin**  
Johns Hopkins University

*New biostatistical approaches to measure and monitor health trends*

**Larry J. Brant**  
National Institute on Aging, NIH

*Counting Concepts: Estimating the population at risk for regulatory action*

**Alex Botkin**  
CONRAD Research Corporation

3:00 p.m. to 3:30 p.m.

**BREAK**

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

**CONCURRENT SESSIONS****Session 11: Fall-related Injuries in Construction**

Moderator: Eric Waterman

Room: 1047



*Slipping, tripping, and falling incidents: Steel erection and metal roofing workers*

**Patrice L. Murphy**  
Liberty Mutual Research Center  
for Safety and Health

*Nonfatal falls in construction workers: Predictors of injury severity*

**Marion E. Gillen**  
University of California

*Risk factors of task performance at elevated and inclined surfaces*

**Angus Bagchee**  
University of Cincinnati

*Fall prevention in construction by organizational intervention*

**Paul E. Becker**  
West Virginia University

**Session 12: Injury Mechanism and Rehabilitation**

Moderator: Joe Sneizek

Room: 1046



*Severe repetitive strain injury—Focal Hand Dystonia: Central neural consequences versus local tissue injury*

**Nancy N. Byl**  
University of California

## NOIRS Agenda

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*Reliability, validity, and clinical utility of a battery of physical performance tests for patients with low back pain* **Sharon L. Olson**  
Texas Women's University

*Ergonomics and work injury management: 15 Years of application in a clinical setting* **Tarek M. Khalil**  
University of Miami

*Forearm muscle oxygenation decreases during low levels of brief, isometric contraction* **Joel M. Bach**  
University of California

### **Session 13: Intervention Evaluation**

Moderator: Linda M. Goldenhar

*Room: 3045*

*Preventing drownings in Alaska's commercial*

**Session 15: Occupational Injuries in Automobile Manufacturing**

Moderator: James W. Collins

Room: 4045

*Using injury surveillance and workers' compensation data to facilitate injury prevention activities***Gordon R. Reeve**  
Ford Motor Company*Fatal and nonfatal incidents associated with forklifts and other powered industrial vehicle incidents***James W. Collins**  
DSR, NIOSH*The incidence of injuries involving robots in a large manufacturing company***Susan T. Pastula**  
Ford Motor Company*Relationship between hand-arm vibration exposure and hand-arm vibration disorders among workers using impact wrench in automobile assembly lines***Jae-Yeal Jeung**  
Kosin University, South Korea

6:00 p.m. to 8:00 p.m.

**POSTER SESSION—Lakeview Inn Resort*****Poster Category: Adolescent Injury****Evaluation of occupational diseases and injuries among teenage workers in West Virginia***Priscah Simoyi**  
West Virginia University*Comparing adolescent occupational injuries to adult occupational injuries: Four years' experience of emergency department visits***Stephen W. Marshall**  
University of North Carolina*Adolescent work-related fatalities—Kentucky 1994-1995***Ellyn Moon**  
Kentucky Injury Prevention and Research Center***Poster Category: Agriculture****Fatal injuries in Iowa related to loading equipment***Wayne Johnston**  
University of Iowa*ATV injuries and fatalities in agriculture in Nebraska***William E. Hetzler**  
Nebraska Department of Labor*Occupational injury in migrant Hispanic farm-worker families***Stephen A. McCurdy**  
University of California*The populations of those injured on family farms in central Wisconsin***Dean T. Stueland**  
Marshfield Clinic



*National estimates of eye injuries based on the Traumatic Injury Surveillance of Farmers survey*

**Frances J. Walker**  
University of South Florida

**Poster Category: Construction**



*Effects of a “back care” program in construction*

**Doug J. McVittie**  
Construction Safety Association of Ontario

*Construction Safety Association of Ontario occupational injury database*

**Harry M. Banikin**  
Construction Safety Association of Ontario

*Hand protection for drywall installers and carpet layers*

**Francis Hardy**  
Construction Safety Association of Ontario

*Issues relating to GFCI usage with portable generators*

**Francis Hardy**  
Construction Safety Association of Ontario

*SAFE-TRACK--Uniform injury tracking process*

**Bert Creswell**  
Philadelphia Area Labor Management

*Falls profile of construction laborers*

**Magdy Akladios**  
West Virginia University

*Questionnaire-based ergonomic hazard assessment of construction workers with musculoskeletal injuries*

**Judith T. L. Anderson**  
George Washington University

*Construction injuries in Alaska*

**Brad J. Husberg**  
Alaska Activity, DSR, NIOSH

*Trade-specific injury patterns among construction workers*

**Katherine L. Hunting**  
George Washington University

*A tool for planning and monitoring construction site safety*

**John A. Gambatese**  
University of Nevada

*Mortality patterns among the International Brotherhood of Electrical Workers, 1982-87*

**Cynthia F. Robinson**  
DSHEFS, NIOSH

*Motor vehicle fatalities in the United States construction industry*

**David E. Fosbroke**  
DSR, NIOSH

**Poster Category: Engineering and Protective Technology**

*Near fatal events--Momentary lapses in reason?*

**Terrence J. Stobbe**  
West Virginia University

*An ergonomic audit of a Mississippi River  
revetment process*

**Steven G. Chervak**  
U.S. Army Center for Health Promotion  
and Preventive Medicine

*Development of a data collection system for a  
pen-based computer*

**Cindy R. Ching**  
U.S. Army Center for Health Promotion  
and Preventive Medicine

*Hazards associated with roof drilling and bolt  
installation in underground coal mines*

**Richard L. Unger**  
PRC, NIOSH

*Safety considerations for transport of ore and  
waste in underground ore passes*

**Bill M. Stewart**  
SRC, NIOSH

*Graphical analysis of energy expenditure*

**J. Louis Belard**  
DSR, NIOSH

**Poster Category: Surveillance**

*National estimates of occupational injury from the  
National Health Interview Survey*

**Connie A. Geidenberger**  
DSR, NIOSH

*Traumatic occupational fatalities due to falls from  
elevations—cause and prevention*

**Richard W. Braddee**  
DSR, NIOSH

*Worker deaths by electrocution--a summary of  
NIOSH surveillance and investigative findings*

**Virgil J. Casini**  
DSR, NIOSH

*A profile of occupational eye injuries from the West  
Virginia workers' compensation program*

**Larry L. Jackson**  
DSR, NIOSH

*An epidemiologist's trek through several industries'  
injury/incident data*

**Robert E. J. Thomas**  
Robert E. J. Thomas and Associates, Inc.

*Helicopter external load traumatic injuries—  
epidemiology and prevention*

**Jan C. Manwaring**  
Alaska Activity, DSR, NIOSH

***Poster Category: Miscellaneous***

*Characteristics of success following a comprehensive pain control and functional restoration program*

**Wen-Yin Chen**  
Texas Women's University

*Use of narcotic and non-narcotic analgesic medications in occupational injuries: Analyses of reimbursed prescriptions in a state run workers' compensation database*

**Syed S. Islam**  
West Virginia University

**National Occupational Injury Research Symposium—Final Agenda  
DAY TWO: Thursday, October 16, 1997**

7:30 a.m. to 8:30 a.m.

**REGISTRATION**

8:30 a.m. to 10:00 a.m. **Opening Plenary Session--Federal Occupational Injury Programs**

*Introductions*

**Timothy J. Pizatella**  
Deputy Director, DSR, NIOSH

*Work Injury Research at NIOSH*  
(National Institute for Occupational Safety and Health)

**Nancy Stout**  
Director, DSR, NIOSH

*Work Injury Research at OSHA*  
(Occupational Safety and Health Administration)

**John F. Martonik**  
Acting Director, OSHA Directorate of Safety Standards Programs

*Work Injury Research at NCIPC*  
(National Center for Injury Prevention and Control)

**Larry Sparks**  
Deputy Director, NCIPC

*Work Injury Research at NHTSA*  
(National Highway Traffic Safety Administration)

**Raymond P. Owings**  
Associate Administrator for Research and Development, NHTSA

*Work Injury Research at MSHA*  
(Mine Safety and Health Administration)

**Jay Mattos**  
Program Evaluation and Information Resource Division, MSHA

10:00 a.m. to 10:30 a.m.

**BREAK**

10:30 a.m. to 12 noon

## CONCURRENT SESSIONS

**Session 16: Factors Influencing Injury in Construction**

Moderator: Pete Stafford

Room: 1047



*A designer's influence on construction worker safety*

**John A. Gambatese**  
University of Nevada

*Improving benefits for injured construction workers: An alternative system of workers' compensation in California*

**Jeffrey S. Petersen**  
University of California

*Targeting health and safety interventions and enforcement in construction: "Trying to hit a moving target that keeps changing shape"*

**Doug J. McVittie**  
Construction Safety Association of Ontario

*The effects of firm size on injury frequency in construction*

**Henry M. Banikin**  
Construction Safety Association of Ontario

**Session 17: Protective Clothing and Equipment**

Moderator: Larry Reed

Room: 1046



*New design for industrial head protection*

**Doug J. McVittie**  
Construction Safety Association of Ontario

*Physical and neuropsychological effects of heat exposure on workers wearing protective clothing*

**Buck Cameron**  
United Brotherhood of Carpenters

*Evaluation of the effects of alternative safety helmet designs in a hot environment*

**Jerry Davis**  
Auburn University

*Evaluation of the relative strength and shatter resistance of lenses currently used for street and industrial eyewear*

**Paul F. Vinger**  
Tufts University

**Session 18: Workload, Stress and Risks for Injury in Hazardous Work Environments—Cross-cutting Research and Interventions (INVITED SESSION)**

Moderator: Ted Scharf

Room: 4045

*A program of simulation exercises that teach and assess safety decision-making skills to workers: Lessons learned and generalizations*

**Henry P. Cole**  
University of Kentucky

## NOIRS Agenda

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*An interactive whole-farm planning tool to evaluate the relationship between farm financial position and stress and injury risk*

**Steven G. Isaacs**  
University of Kentucky



*Loss education through the use of simulations: An example from the construction industry*

**Pamela S. Kidd**  
University of Kentucky

*The work crew performance model: A method for evaluating training and performance in the mining industry*

**William J Wienhagen**  
PRC, NIOSH  
**G.T. Lineberry**  
University of Kentucky

Discussants: George Bockosh, Janet Johnston, Michael Colligan

### **Session 19: National Surveillance Systems**

Moderator: Gary S. Sorock

*Room: 1048*



*Trends in occupational fatal injury rates in the United States (1983-1992)*

**A. John Bailer**  
EID, NIOSH

*Occupational deaths associated with traffic-related motor vehicle crashes: 1990-1992*

**Suzanne M. Kisner**  
DSR, NIOSH

*Sentinel physician visits and their contribution to the Canadian Agricultural Injury Surveillance Program (CAISP)*

**Norma M. Alberg**  
Manitoba Labor

*Fires and explosions resulting in fatal work injuries*

**Janice A. Windau**  
Massachusetts Bureau of Labor Statistics

### **Session 20: Surveillance of Adolescent Injuries**

Moderator: Letitia K. Davis

*Room: 3045*



*Work-related injuries to Massachusetts adolescents: Findings from the Massachusetts SENSOR program*

**Letitia K. Davis**  
Massachusetts Department of Public Health

*Adolescent occupational injuries: Texas, 1990-1996*

**Sharon P. Cooper**  
University of Texas

*The downside of teen employment: Hazards and injuries among working teens in North Carolina*

**Ronda C. Zacoks**  
University of North Carolina

*The prevalence and patterns of occupational injury in South Texas high school students*

**Nancy F. Weller**  
University of Texas

1:30 to 3:00 p.m.

## CONCURRENT SESSIONS

**Session 21: Occupational Injuries in Health Care**

Moderator: Bill Borwegen

Room: 1047



*The growing epidemic of traumatic injuries in the healthcare sector*

**Bill Borwegen**

Service Employees International Union



*Environmental risk factors for work-related assault injuries among nurses*

**Su-Hsing S. Lee**

University of Minnesota

*Selection and installation of sharps disposal containers in healthcare settings*

**Wendy E. Heaps**

NIOSH

*Work-related injuries among West Virginia emergency medical services providers*

**Susan J. Derk**

West Virginia University

*Human factors techniques to reduce injuries in a hospital environment*

**Laurie D. Wolf**

BarnsCare Corporate Health Services

**Session 22: Computer Simulation and Modeling**

Moderator: Karl Snyder

Room: 1046



*Ergonomics analysis using computer animation*

**Frederick E. Sisler**

Louisiana State University



*Mining equipment safety analysis using computer modeling research tools*

**Dean H. Ambrose**

PRC, NIOSH

*Occupational traumatic injury prevention using virtual reality*

**Brian W. Dotson**

DSR, NIOSH

*Computer simulation of ROPS testing in ASAE S519*

**James R. Harris**

DSR, NIOSH

**Session 23: Agricultural Injuries**

Moderator: David L. Hard

Room: 4045



*The Ohio agricultural safety promotion system (ASPS), 1994-1997*

**Chris L. Eicher**

Ohio State University Extension

*Livestock-related injuries associated with cattle handling in Oklahoma*

**Raymond L. Huhnke**

Oklahoma State University

## NOIRS Agenda

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*Women in the fields: A comparison of injuries in Kentucky and Texas*

**Steven R. Browning**  
University of Kentucky

*Farm injuries among deep South farmers*

**Gerald McGwin, Jr.**  
University of Alabama

### **Session 24: State and Regional Surveillance Studies**

Moderator: Roger B. Trent

*Room: 1048*



*Fatal work injuries in the oil and gas extraction industry in Texas, 1991-1995*

**Scott Richardson**  
Texas Workers' Compensation  
Commission

*High risk of fatal injury among self-employed workers*

**Dana P. Loomis**  
University of North Carolina

*Differences in occupational injuries by gender in West Virginia: Analyses of workers' compensation claim database*

**Syed S. Islam**  
West Virginia University

*Work-related limb trauma in a major teaching hospital in India*

**Tusher Kant Joshi**  
MAM Medical College

### **Session 25: Preventing Injuries to Adolescents**

Moderator: William E. Halperin

*Room: 3045*



*Improving workplace safety: Suggestions from working teens*

**Ronda C. Zakocs**  
University of North Carolina

*Qualitative assessment of teens', parents', and employers' knowledge, attitudes, and behaviors related to adolescent occupational safety*

**Christine H. Miara**  
Education Development Center, Inc.

*Evaluation of a comprehensive community-based program to prevent work-related injuries to teens*

**Christine H. Miara**  
Education Development Center, Inc.

*Training to reduce hazards in youth work: Results from the Brockton survey of teenage occupational safety*

**J. Michael Bowling**  
University of North Carolina



*Development of specific guidelines for adolescents' work in agriculture: Results of a pilot study*

**Barbara L. Marlenga**  
National Farm Medicine Center

3:00 p.m. to 3:30 p.m.

**BREAK**

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

## CONCURRENT SESSIONS

**Session 26: Occupational Eye Injuries**

Moderator: Larry L. Jackson

Room: 1047

*Acute eye injury in the workplace***Larry L. Jackson**  
DSR, NIOSH*Epidemiology of ocular injury in a major U.S. automotive company***Andrew Lincoln**  
Johns Hopkins University*Nature of construction industry eye injuries treated in emergency departments***Daniel J. Long**  
DSR, NIOSH*Work-related eye injuries among union carpenters, 1989-1995***Hester J. Lipscomb**  
Duke University*Follow-up study of eye injuries among construction workers***Laura C. Catalina**  
George Washington University**Session 27: Office Ergonomics and Human Performance**

Moderator: Terrence J. Stobbe

Room: 1046

*Effects of alternative geometry keyboards on VDT users with work-related musculoskeletal disorders: Part I--Clinical outcomes***Stephen R. Burastero**  
Lawrence Livermore National Laboratory*Effects of alternative geometry keyboards on VDT users with work-related musculoskeletal disorders: Part II--Productivity and long term user comfort***Pat Tittiranonda**  
Lawrence Livermore National Laboratory*The nature and role of human factors as risk factors for occupational injury***Anna-Marie Feyer**  
New Zealand Occupational and  
Environmental Health Research Center*The relationship between behavior and injury in a lumber mill***Kristen J. Seymour**  
Behavioral Science Technology, Inc.**Session 28: Risk Factor Analysis--Methods and Perspectives**

Moderator: Lytt I. Gardner

Room: 3045

*Analysis of injury risk factors with neural networks***Douglas P. Landsittel**  
DSR, NIOSH

*Epidemiologic confusion in injury research*

**Robert M. Park**  
United Auto Workers

*Case-crossover pilot study of traumatic occupational injury to the upper extremities*

**Gary S. Sorock**  
Liberty Mutual Research Center

*Workers having 20 or more workplace accidents—  
Identification of characteristics as the first step to  
developing effective injury reduction interventions*

**Barton A. Jessup**  
Workers' Compensation Board of  
British Columbia

**Session 29: Use and Evaluation of Surveillance Systems**

Moderator: George A. Conway

Room: 1048



*Evaluation of an educational program to improve  
the sensitivity of death certificates in identifying  
occupational fatalities*

**Amy L. Scheerer**  
Kentucky Injury Prevention Research  
Center

*Wisconsin FACE 1991-1997: On-site investigation  
findings and recurrent themes for fatality  
prevention*

**Jeanette Tierney**  
Wisconsin Division of Health

*Wisconsin FACE: Findings from the first cycle of  
surveillance activities*

**Lawrence P. Hanrahan**  
Wisconsin Division of Health

*The effect of workers' compensation likelihood  
on the reporting of cumulative trauma disorders*

**Andrew Lincoln**  
Johns Hopkins University

**Session 30: Occupational Violence**

Moderator: E. Lynn Jenkins

Room: 4045



*Workplace violence: Research for prevention*

**E. Lynn Jenkins**  
NIOSH

*Evaluation of risk factors for workplace violence  
in liquor stores*

**Carri Hartman**  
University of California

*Risk factors for robbery and employee injury in  
convenience stores*

**Scott A. Hendricks**  
DSR, NIOSH

*Washington State's late night retail worker crime  
protection regulation: Relationships with employer  
practices*

**Nancy A. Nelson**  
DSR, NIOSH

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**National Occupational Injury Research Symposium—Final Agenda**  
**DAY THREE: Friday, October 17, 1997**

8:30 a.m. to 10:00 a.m. CONCURRENT SESSIONS

**Session 31: Injuries and Fatalities in Retail Trade**

Moderator: Linda J. Frederick

*Room: 1047*

*Workplace deaths in the retail industry, U.S.  
1992-1995*

**Corinne Peek-Asa**  
University of California

*Fatal occupational crushing and amputation  
injuries in scrap balers and compactors*

**Paul H. Moore**  
DSR, NIOSH  
**Emily O'Hagan Smith**  
New Jersey Department of Health and  
Senior Services

*Factors limiting the use of frame deflection  
monitoring to predict material jams in baling  
equipment*

**John R. Etherton**  
DSR, NIOSH

*Work-related back injuries in retail merchandise  
workers*

**Lytt I. Gardner**  
DSR, NIOSH

**Session 32: Mining Safety**

Moderator: Lisa J. Steiner

*Room: 1046*

*Enabling technologies for reduced exposure mining*

**George H. Schnakenberg, Jr.**  
PRC, NIOSH

*Safety issues and the use of software-controlled  
equipment in the mining industry*

**John J. Sammarco**  
PRC, NIOSH

*Reducing acute injury from mine roof failures  
during remote-control mining of extended cuts*

**Eric R. Bauer**  
PRC, NIOSH

*Lower injury risk for underground low-coal  
equipment operators using ergonomic seat with  
viscoelastic foam*

**Alan G. Mayton**  
PRC, NIOSH

**Session 33 Injury Risk Factors for Specific Worker Populations**

Moderator: Susan G. Gerberich

*Room: 4045*

*Analysis of fatal injuries 1973-1997 in the  
automotive and other industrial sectors  
represented by the UAW*

**Jim Howe**  
United Auto Workers





*Effects of mining height and mine employment size on injury rates in underground bituminous coal mines* **Barbara Fotta**  
PRC, NIOSH

*Risk factors for injury among veterinarians in Minnesota* **Christine L. Gabel**  
University of Minnesota

*Case-referent study of injuries in the wood products industry* **Laura Punnett**  
University of Massachusetts

### **Session 34: Safety Communications and Training**

Moderator: Lore A. Jackson

*Room: 1048*

*Educational programs for musculoskeletal work injury prevention* **Paula C. Bohr**  
Washington University

*Promoting safety and health in vocational, industrial, and technical education programs: Guidelines and curricula* **John Palassis**  
EID, NIOSH



*Makin' it real: How to develop effective educational methods and materials on workplace health and safety for adolescent workers* **Marianne P. Brown**  
University of California



*Determining the safety and health curriculum needs of secondary vocational agriculture teachers: A collaborative approach* **Robin W. Thompson and Shelley P. Shiflett**  
University of Missouri

### **Session 35: Injuries and the Military**

Moderator: James C. Helmkamp

*Room: 3045*



*Use of surveillance databases for analytic research: Hospital databases in the Army* **Gordon S. Smith**  
Johns Hopkins University

*Traumatic injuries in U.S. Army infantry trainees* **Michele L. Canham**  
U.S. Army Center for Health Promotion and Preventive Medicine

*Risk factors for occupational disability resulting from knee injuries in the United States Army* **Sandra I. Sulsky**  
University of Massachusetts

*Maritime Preventive Medicine Program: Discussion of the U.S. Coast Guard Initiative for occupational and environmental health and safety concerns affecting the nation's maritime industry and workers* **Michael L. Adess**  
U.S. Coast Guard

10:00 to 10:30 a.m.

**BREAK**

10:30 a.m. to 12 noon **Closing Plenary Session--The National Occupational Research Agenda**

*National Occupational Research Agenda (NORA)—* **William E. Halperin**  
*Background and Status* Deputy Director, NIOSH

*Forming a national traumatic occupational injury* **Gordon R. Reeve**  
*research agenda: Report from the NORA traumatic* Corporate Epidemiologist, Ford Motor  
*injury team* Company

*Intervention evaluation in occupational safety and* **Linda M. Goldenhar**  
*health: Report from the NORA intervention* DSHEFS, NIOSH  
*evaluation team* **Scott Schneider**  
The Center to Protect Workers' Rights  
**Ann Brockhaus**  
Organization Resources Counselors, Inc.

*Final Thoughts on NOIRS* **William E. Halperin**  
Deputy Director, NIOSH

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