

The entire transcript of this virtual meeting can be viewed at www.regulations.gov at Docket Number [OSHA-2022-0002-0013](https://www.regulations.gov/document/OSHA-2022-0002-0013)

MEETING SUMMARY
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
NATIONAL ADVISORY COMMITTEE ON OCCUPATIONAL SAFETY AND HEALTH
(NACOSH)
February 22, 2022

U.S. Department of Labor
200 Constitution Ave., NW
Washington, D.C. 20210

The meeting of the National Advisory Committee on Occupational Safety and Health (NACOSH) was called to order by Chair Cynthia Lewis at 1:04 p.m. ET, on Tuesday, February 22, 2022. This meeting was held via WebEx and teleconference. The following committee members and OSHA staff were present:

NACOSH MEMBERS

Cynthia Lewis, Fay Boozman College of Public Health, University of Arkansas for Medical Sciences

David Heller, AcuTech Consulting Group

Leanne Cobb, Palm Beach State College

Tonya Ford, United Support & Memorial for Workplace Fatalities

John Dony, National Safety Council

J.A. Rodriguez, Board of Certified Safety Professionals

Andrew Perkins, Alabama Power Company

Bobbi Jo Hurst, Orthopedic Associates of Lancaster

Rebecca Reindel, AFL-CIO

Jessica Garcia, Retail, Wholesale & Department Store Union

Kathleen Dobson, Alberici Constructors, Inc.

Michael Belcher, Boys and Girls Club of America

OSHA and NIOSH Staff

Douglas Parker, Assistant Secretary of Labor for OSHA

James S. Frederick, Principal Deputy Assistant Secretary of Labor for OSHA

Andrew Levinson, Designated Federal Official, Acting Director, OSHA, Directorate of Standards and Guidance

Lisa Long, Acting Deputy Director, OSHA, Directorate of Standards and Guidance

Carla Marcellus, OSHA, Office of Maritime and Agriculture

Ashley Bieniek-Tobasco, OSHA, Office of Physical Hazards

Gary Orr, OSHA, Directorate of Enforcement Programs

Stephen Schayer, OSHA, Office of Physical Hazards

Jennifer Levin, Committee Counsel, Office of the Solicitor

Vanessa Myers, Office of the Solicitor
John Howard, Director, NIOSH
John Piacentino, Associate Director of Science, NIOSH

Members of the Public

See Attachment 1

Opening Remarks, Roll-Call and Introductions

Lisa Long, Acting Deputy Director, OSHA, Directorate of Standards and Guidance
Cynthia Lewis, NACOSH Chair

Ms. Long started the meeting by thanking the members and speakers for their participation in the meeting. Ms. Lewis called the meeting to order and asked all the members to introduce themselves which served as the roll call. All members were present. Ms. Long introduced the OSHA members and briefly went over the agenda.

The following items were entered into the record:
NACOSH Agenda [OSHA-2022-0002-0009](#)

National Institute on Occupational Safety and Health Overview

Dr. John Howard, Director

Dr. Howard discussed NIOSH's 2022 proposed budget and the agency's COVID-19 response. The CDC is transitioning some activities from a large, centralized COVID-19 response back to their home bases. He mentioned research findings on the effectiveness of barriers in blocking certain COVID-19 particles, and the agency was looking at the prevalence of mental health issues for health care and public health workers. The CDC has conducted laboratory testing on the efficacy of various types of face coverings and has several publications on this research. Other CDC projects include adding work-related questions to an existing survey on COVID-19 antibody prevalence in Red Cross blood donors and a study of the impact of school bus ventilation on the risk of COVID exposures. The CDC has a website that is a compilation of information on barrier face coverings and their ability to conform to the ASTM standard. NIOSH's National Personal Protective Technology Laboratory was instrumental in developing a new PPE consensus standard for protection of the eyes and face from biological hazards in occupational settings, ANSI Z87.62.

Dr. Howard discussed NIOSH's history with heat illness. In 1972, NIOSH published criteria for a recommended standard on occupational exposure to hot environments. The document was revised in 1986, and in 2011, along with OSHA, NIOSH published an information sheet. The agency is very interested in this issue of protecting workers in hot environments. In 2013, NIOSH published a Workplace Solutions document entitled Preventing Heat Related Illness or Death of Outdoor Workers, and in January 2021, NIOSH collaborated with OSHA on the update of the OSHA-NIOSH Heat Safety Tool App. NIOSH is looking at research in climate and worker health and participates on CDC's work climate and health work group that is focused on research plans and research gaps. Dr. Howard stated that they hoped the committee's

deliberations and work would assist the agencies in eliminating heat stress and heat related illness. (pages 11-19)

The NIOSH presentation was entered into the record. [OSHA-2022-0002-0011](#)

Occupational Safety and Health Administration Update

Douglas L. Parker, Assistant Secretary

Mr. Parker began by thanking Ms. Lewis for her work as Chair on the Committee and the work being done by the members to help OSHA understand the issues of today. Mr. Parker provided an update on the agency's COVID-19 work. OSHA planned to withdraw the non-recordkeeping portions of the Healthcare Emergency Temporary Standard (ETS) and continue work on a final healthcare standard for COVID-19. OSHA withdrew its Vaccination and Testing ETS and is focusing its resources on finalizing a permanent healthcare standard. OSHA is developing a final healthcare rule on COVID-19 in healthcare. OSHA is continuing work on a permanent infectious disease standard for healthcare to ensure the agency is better prepared for the next outbreak.

OSHA is currently reviewing the comments received on its Advance Notice of Proposed Rulemaking (ANPRM) on Heat Injury and Illness Prevention for outdoor and indoor work settings to determine its next steps. The agency's national emphasis program will be targeting high risk industries and focus agency resources and staff time on heat inspections as well as heat compliance assistance. Mr. Parker said the agency was looking forward to hearing the ideas put forth by the NACOSH Heat Work Group.

In terms of other priorities, the agency is redoubling its efforts to make sure that low wage workers, immigrant worker, and other at-risk workers have a voice in the workplace. OSHA is expanding its outreach to underserved worker communities and their employers. OSHA is rethinking how to ensure all workers have the protection, information and training they need, and making sure worker voices are heard. The agency's Susan Harwood training grants program is one avenue OSHA can use to reach underserved communities.

Mr. Parker also mentioned the need for OSHA to increase its resources to meet the health and safety challenges of today. One of the agency's top priorities is to bring in more qualified and diverse people to OSHA to help better serve workers. OSHA will need to develop new and expanded relationships with stakeholders and other partners to hear diverse voices and perspectives. Mr. Parker stated that listening and working with stakeholders is really the only way we can ensure workers are adequately protected.

OSHA is also aware that with the passage of the Infrastructure Investment and Jobs Act, there will be new construction projects in cities and rural areas across the country. The agency will be playing a major role in keeping those workers safe.

Mr. Parker stressed his openness to listening to innovative ideas from engagement with NACOSH.

Mr. Parker thanked the Committee for its work. (pages 22-39)

The November 16, 2021, meeting minutes were discussed, approved, and entered into the record. November 16, 2021, Meeting Minutes [OSHA-2022-0002-0010](#)

Heat Stress

Dr. Stephen Schayer, Director, Office of Physical Hazards & Others
Dr. Ashley Bieniek-Tobasco, Health Scientist, Office of Biological Hazards
Inanje Mintz, Public Health Educator
Pamela Barclay, Health Scientist

Ms. Long introduced the OSHA staff who would be presenting on Heat Stress.

Dr. Ashley Bieniek-Tobasco – Rulemaking Update

OSHA published an Advanced Notice of Proposed Rulemaking (ANPRM) on Heat Injury and Illness Prevention in Outdoor and Indoor Work Settings on 10/27/21 and the comment period ended on 1/26/22. The ANPRM contained 114 questions; OSHA received over 1000 comments. OSHA will review and analyze these comments to determine the next steps. (pages 42-45)

Dr. Stephen Schayer – Heat Work Group Overview

Dr. Schayer discussed the purpose of the work group and its composition. OSHA established this work group to help NACOSH provide recommendations on OSHA's heat injury and illness prevention guidance materials. The work group consists of three NACOSH members and 12 public members representing labor and management interests from various industries. Public meetings of the work group will be held quarterly. OSHA has established a web page for the NACOSH Heat Injury and Illness Prevention Work Group and will be uploading documents to this site along with meeting information. (pages 45-50)

Dr. Bieniek-Tobasco – Charge to NACOSH Heat Injury and Illness Prevention Work Group

Dr. Bieniek-Tobasco discussed the two tasks in the charge to the work group. The first task is to evaluate and provide input and recommendations on OSHA's heat illness prevention materials and strategies. The second task will be to critically evaluate stakeholder input to the heat injury and illness prevention in outdoor and indoor work settings and to develop key recommendations on potential elements of a heat injury and illness prevention rule making that OSHA should consider.

The work group will meet at various times to discuss the issues and work on finalizing proposed actions for both task one and task two and develop a written report. The work group will present its findings and recommendations to the full NACOSH committee. The committee can choose to adopt all, some or none of the work group's proposed findings and recommendations. (pages 50-53)

Inanje Mintz – Overview of Heat Injury and Illness Prevention Campaign

Ms. Mintz provided information on OSHA's Heat Injury and Illness Prevention Campaign. OSHA's campaign was modeled after Cal/OSHA's successful heat campaign. OSHA's heat campaign, which was launched in 2011, has not been updated in over 10 years. OSHA reached out to various stakeholders within OSHA and outside of OSHA to determine what was needed and/or missing in its current campaign. OSHA conducted over 20 stakeholder conversations and several key themes and priorities were identified. The first was the need for more engagement tactics involving social media, working with OSHA's regional and area offices to push out heat related materials. There is also a need for new materials related to radio and video PSAs, a press toolkit for regional offices and information on how to talk about heat illness and provide education. The agency needs to have talking points and PowerPoint presentations for the field; update the heat illness prevention at work poster and wallet cards, and provide this information in various languages. The stakeholder conversations also helped identify more material and topics pertaining to different industry areas for both indoor and outdoor. The current campaign needs data and research questions measuring the effectiveness of the campaign. (pages 53-58)

Pamela Barclay – Overview of Heat Injury and Illness Prevention Campaign

Ms. Barclay provided some additional information on the heat campaign. She discussed the revision of OSHA's heat illness prevention poster to make it applicable to multiple industries. After stakeholder input, the poster was redesigned from a two-sided poster to a one-sided design that included plain language on acclimatization along with details on implementing preventative measures, updated signs and symptoms of heat illness and clearer information on first aid and emergency response. The poster updates resulted in additional media graphics like a pamphlet and PSAs. The infographics for social media are available in both English and Spanish.

The development of the Heat Illness Prevention Campaign begins in the fall with an evaluation of the previous year's efforts in planning for the next year. The 2022 Heat Illness Prevention Campaign will roll out in Spring 2022. OSHA is aware that there are a number of areas where improvements can continue to be made and is looking for the work group members to share their expertise and experiences and knowledge to help the agency identify those gaps in the existing campaign materials and its delivery strategies and looking for suggestions on how to leverage and implement identified opportunities for a larger impact. (pages 58-62)

The presentation was entered into the record. [OSHA-2021-0001-0048](#)

Risk-based Safety Discussion Cynthia Lewis, NACOSH Chair

Ms. Lewis provided a brief overview of the risk-based safety discussions from the last two NACOSH meetings. She discussed revisiting safety and health programs, and other guidance from the maturation presentation and where risk-based safety could fit in this overall plan. Ms. Lewis also brought up the questions posed by OSHA at that time, and then invited the Committee members to provide input on the subject. Members discussed how OSHA could improve communication with businesses about making safety part of their risk-based business

approach; how OSHA could market this concept to employers; the need for OSHA to help small and medium sized employers understand the concept of a risk-based approach to safety and prescriptive regulations; the need for OSHA to do a lot of education of employers if it adopted a risk-based regulatory approach; the need for additional worker training as well as education for employers of all sizes on risk assessment; the need to go beyond mere compliance to achieve safety; how OSHA could work with all stakeholders in high risk industries and the need for acceptance and leadership at the corporate executive level of including safety in risk-based corporate management. (pages 75-104)

The Risk-based Safety presentation was entered into the record. [OSHA-2021-0001-0037](#)

Open Discussion, Closing Remarks, Adjournment

Ms. Lewis opened the meeting for comments from the members and then gave the public the opportunity to speak. Ms. Long thanked all the members and the public for their participation and mentioned the Heat Work Group meeting scheduled for Friday. (pages 104-118)

The meeting was adjourned at 3:55 p.m. EST.

I hereby certify that, to the best of my knowledge, the foregoing minutes are an accurate summary of the meeting.

Submitted by:

Cynthia Lewis

Cynthia Lewis
NACOSH Chair
May 23, 2022

Attachment 1

Members of the Public

Adele Abrams
Allan Ade
Alvert Kim
Amy Wangdahl
Andrew Vaughn
Angela Ray
April McDonough
Asher Tobin
Ashley Edgerly
Bart Miller
Beth Boores
Brad Mannion
Brenda Jackoitsth
Brent Charlton
Brian Callahan
Bruce Rolfsen
Bryan Burns
Catherine McMahanon
Chad Darcy
Chadwich Kinser
Charles Davis
Charles White
Cheryl Anderson
Christopher Martinez
Clark
Clayton Hastings
Cody Maples
Craig Collins
Craig Edwards
Craig Mitchell
Curt Whittman
Danielle Best
Danielle Quist
Danielle Westman
David May
Debbie
Dennis Findley
Dina Lowery
Dina Siegel
Don Cahill
Douglas Trout
Douglas Williams

Duncan McCook
Eduardo Hernandez
Edward Steele
Eduardo Hernandez
Eric Conn
Erin DeCorte
Erin Prendergast
Eve Worthington
Francis Meilinger
Frank Hearl
Frank Trajillo
Fred Burcz
Gabriella Munoz
Gary Jones
Grant Neihass
Hayley Moore
Helen Cleary
Janice Scott-Blanton
Jason Sokoloff
Jason Winger
Jay Dietes
Jean Sboda
Jennifer Ortega
Jennifer Stroud
Jenny Tuertsbher
Jens Svenson
Jess McClure
Jim Colling
Jim Remington
Jo Xavier
Joanna Liston
Joe Long
Joe Tudor
Jonathan Horton
Joseph Lilley
Josh Seymour
Juanita Constable
Juley Fulcher
June Rogillio
Justin Crandol
Karen Livingston
Karen Spencer
Karissa Waddick
Kate McMahan
Katrina Burns
Keith Bullock

Keith Webster
Kelley Green
Kelly Hambly
Kevin Moore
Kevin Taubee
Kimberley Darby
Kyle Madden
Laura Stallings
Lauren Bauerschmidt
Liliana Calderon
Linda DeCarlo
Linda Midyett
Lisa Tomlinson
Lispa McCray-Garrison
Lynn Owens
Manual Peralta
Marcia Oursler
Marcus Cerventes
Margaret Mote
Mark Ames
Mason Talby
Matt Spencer
Megan Stark
Melanie Cornejo
Michael Anderson
Michael Wunsch
Michele Richey
Michelle Beasley
Michelle Theis
Mike McCullion
Mike Pickeral
Monica
Nancy Hailpern
Nathan Leventon
Nick Stone
Nick Tindall
Nina Breakiron
Patrick Newcom
Paul Allen
Paul Deusterman
Paul Robinson
Paul Schramm
Paula Ike
Randall Croka
Raymond
Rebecca Seam

Ric Newell
Robert Kindall
Robin Groover
Roosevelt Shavers
Royce Ruddick
Sanita Walker
Sara Jackson
Sarah Russwinkel
Shakera Robbins
Sharon Gibson
Shelley Sutton
Sid Holcomb
Stephen Jenkins
Steven Miller
Susan Bouche
Virginia Weaver
Wayne Palmer
William Blaber
Bruce Lundegren
Ita Lashkiri
Marlis Burbick
Matthew Young
Muhammad Khan