

Committee on Personal Protective Equipment for Workplace Safety and Health Hybrid Meeting

May 11-12, 2023

Keck Center, Room 206

AGENDA

Zoom Information for Remote Participants:

Link: <https://nasem.zoom.us/j/97072659802>

Dial In: 301 715 8592 or 877 853 5257 (Toll Free)

Meeting ID: 970 7265 9802

MAY 11, 2023

Objectives

- To discuss and provide input on National Personal Protective Technologies Laboratory (NPPTL) activities related to:
 - Respirator and PPE fit research
 - Respiratory protection for the public
 - Equitable PPE Initiative

9:30-9:40am
(10 min)

Welcome, Introductions, and Overview of Meeting Plans
Melissa McDiarmid, Committee Chair

9:40-9:50am
(10 min)

NPPTL Meeting Overview and General Updates
Maryann D'Alessandro, NPPTL Director

9:50am-12:30pm
(2hr 40min)

Respirator Fit and Updates on Activities Relevant to Respiratory Protection for the Public

9:50-9:55am

Maryann D'Alessandro, NPPTL

- Current NPPTL activities for respiratory protection for the nation.

9:55-10:05am
10:05-10:10am

Jon Szalajda and Adam Smith, NPPTL Staff

- Respiratory Protection for the Public White Paper
- Committee Q&A

10:10-10:20am
10:20-10:25am

Adam Smith, NPPTL Senior Scientist

- NIOSH Crowdsourcing Fit Challenge
- Committee Q&A

10:25-10:35am
10:35-10:40am

Jon Szalajda, NPPTL Deputy Director

- Update on the Respirator Fit Capability Standard
- Committee Q&A

10:40-10:50am
10:55-11:00am

Rocco Casagrande, Gryphon Scientific

- Towards a Theory of Pandemic Proof PPE
- Committee Q&A

Committee on Personal Protective Equipment for Workplace Safety and Health

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11:00-11:10am (10 min)	BREAK
11:10-11:20am	<i>Jonisha Pollard</i> , Research Branch Chief, NIOSH • Overview of NPPTL's Fit Research
11:20-11:30am	<i>Mike Bergman</i> , Biologist, NIOSH • Mobile App to Support Respirator Selection
11:30-11:40am	<i>Susan Xu</i> , General Engineer, NIOSH • Development of Real-time Fit Monitoring with SAW Sensor
11:40-11:55am	<i>Sundaresan Jayaraman</i> , Professor, Georgia Institute of Technology • Next-Generation Custom-Fit Reusable Respiratory Protective Device with Continuous Fit Monitoring
11:55am-12:30pm (35 min)	Committee Q&A
12:30-1:30pm (60 min)	LUNCH
1:30-2:15pm (45 min)	Committee Discussion of NPPTL Activities 1) Given current NIOSH priorities, targets, and resources, what strategies can be used to address targets 3 and 4 (below)? Target 3: Determine the assigned protection factor that may be expected when fit testing is not feasible or is delayed with and without the use of a standardized sizing guide that matches adult individuals to a respirator size designation. Target 4: Determine what level of protection may be expected for various FFR filtration efficiencies (e.g., N95) when fit testing is not feasible or is delayed and only a user seal check is performed. 2) What are the current opportunities and challenges facing NIOSH/NPPTL in the areas of respirator fit and respiratory protection for the public? What are some ways they could be capitalized on and addressed, respectively? 3) What are potential next steps for NIOSH?
2:15-2:35pm (20 min)	Commissioned Paper to Inform Discussion of PPE Fit Research at Upcoming COPPE Meeting <i>Lisa Brosseau</i> , Professor, University of Illinois at Chicago (ret.)
2:35-2:40pm (5 min)	BREAK

2:40-3:55pm
(75 min)

Strategy Session for Respiratory Protection Programs (RPPs) for the Public
Invited Discussants

Susan Stone, EPA; Maria Mirabelli, CDC; Andrew Levinson, OSHA; John Volckens, Colorado State University; Sarah Coefield, Missoula City-County Health Department; Claire Huson; Rosemary Sokas, Georgetown University

Participants will generate and discuss ideas for translating the elements of an occupational RPP related to respirator fit to the public with the aim of achieving improved respirator fit among public users.

2:40-3:10pm
3:10-3:40pm
3:40-3:55pm

Activity Introduction and Full Group Discussion of Factors Influencing Fit
Breakout Group Discussions
Reconvene and Report Out

3:55-4:00pm
(5 min)

Day 1 Wrap-Up
Melissa McDiarmid, Committee Chair

4:00pm

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MAY 12, 2023

Closed Session – Committee Members Only

9:15-10:00am
(45 min)

Closed Session Committee Discussion

Open Session

10:00-10:05am
(5 min)

Welcome, Review of Day 1, Overview of Day 2 Plans

Melissa McDiarmid, Committee Chair

10:05-11:00am
(55 min)

Roadmap for Equitable PPE

10:05-10:15am

Maryann D'Alessandro, NPPTL

- Summary of NIOSH Health Equity Community of Practice

10:15-10:30am

Patrick Dempsey, NPPTL Senior Scientist

- Outcomes and next steps following the NPPTL PPE Equity Workshop
- NPPTL Outline of Roadmap for PPE Equity

10:30-10:40am

Adam Smith, NPPTL Staff

- Update on Protective Clothing Challenge

10:40-10:50am

Shahnaz Benner, University of Nebraska, Protective Clothing Challenge Winner

10:50-11:00am

Susan Sokolowski, University of Oregon, Protective Clothing Challenge Winner

11:00-11:10am

Committee Q&A with Panelists

11:10-11:20am
(10 min)

BREAK

11:20-12:20pm
(60 min)

Committee Discussion of Focus Questions

- 1) The Equitable PPE Workshop was very effective for reaching a broad range of interested parties. What are less resource-intensive approaches to maintain and build on the momentum from the event?
- 2) We may be missing inequities associated with certain occupations and user groups, particularly smaller populations. How do we ensure we identify and include these groups?
- 3) Organizing the identified equity issues into strategic goals will need to balance generalizability and comprehensiveness against conciseness. From this perspective,

what should the goals be organized around (e.g., occupation, user group, PPE type)?

- 4) Achieving PPE equity will require intramural and extramural contributions. How should NIOSH identify or separate intramural goals?

12:20-12:30pm
(10 min)

Day 2 Wrap-Up, Next Steps, and Closing Remarks

Melissa McDiarmid, Committee Chair

Maryann D'Alessandro, NPPTL

12:30pm

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