

## Speaker Fact Sheet

Chesapeake PDC: April 15<sup>th</sup> 2021

**TOPIC: Nanomaterials in the Workplace: Epidemiological Research, Exposure Assessment, and Hazard Communication**

**SPEAKERS: Gavin West and Bruce Lippy**

**THREE LEARNING OBJECTIVES: (at least)**

**At the end of this session, attendees will be able to:**

1. Discuss the findings and limitations of epidemiological studies of nanomaterial workers.
2. Explain the importance of epidemiological findings from “legacy” nanomaterials.
3. Describe industrial hygiene techniques for measuring worker exposures to nanomaterials.
4. Discuss the state of hazard communication around nanomaterials and the effect of upcoming OSHA revisions to 1910.134 associated with global harmonization.
5. List at least four resources available from CPWR on nanomaterials in construction.

**DESCRIPTION OF PRESENTATION: (min, 2-3 sentences)**

Researchers from CPWR – The Center for Construction Research and Training will present some of the latest research into potential health effects associated with nanomaterial exposures. They will also share results from their work measuring exposures during spray application and sanding of nano-enabled coatings. Finally, the state of hazard communication will be reviewed with a focus on a CPWR-funded study of the awareness among California tradespersons about nanomaterials in construction. Several studies have shown serious inadequacies in nano Safety Data Sheets, but the upcoming Global Harmonization Standard update to 1910.134 will mandate adding particle sizes. These important updates will be reviewed along with free resources on nano from CPWR.

**SPEAKER TITLE AND EMPLOYER: (as you wish it to be displayed)**

Gavin West, MPH, Director of Nanomaterials Research  
CPWR – The Center for Construction Research and Training

Bruce Lippy, PhD, CIH, CSP, FAIHA  
Nanomaterials Consultant to CPWR

**SPEAKER BIO: (paragraph)**

Dr. Lippy began his career in industrial hygiene in 1978 working for Maryland OSHA, where he managed the training of workers, union groups and contractors. He was certified in the comprehensive practice of Industrial Hygiene in 1985 and as a Safety Professional in 1992. He received his doctorate in policy from the University of Maryland in 2003. He has operated his own consulting firm since 2006 and supports CPWR’s nanomaterials research. He currently serves on the AIHA Nano and Advanced Materials committee and on a National Academies committee evaluating respirator options for the public and workers not under a respirator program. Dr. Lippy was awarded a Distinguished Fellow of the AIHA at the 2015 annual conference.

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Mr. West has bachelor's degrees from the University of Virginia and a master's degree in public health from the George Washington University. He began his career in occupational health and safety in 2011 as a Research Analyst for CPWR - The Center for Construction Research and Training, where he is currently employed as the Director of Nanomaterials Research. He has co-authored two text book chapters on construction hazards and over twenty scientific papers spanning the fields of respiratory physiology, occupational epidemiology, and industrial hygiene, including a publication awarded Best Paper by the AIHA Nanotechnology Working Group. He believes in the importance of translating research into practice and works with construction industry stakeholders to achieve this goal.

**SPEAKER EMAIL:** Gavin West: [gwest@cpwr.com](mailto:gwest@cpwr.com) ; Bruce Lippy: [blippy@cpwr.com](mailto:blippy@cpwr.com)