

EMERGING SCIENCE ON INDOOR CHEMISTRY AND IMPLICATIONS: AN INFORMATION-GATHERING WORKSHOP

HOSTED BY THE COMMITTEE ON EMERGING SCIENCE ON INDOOR CHEMISTRY

APRIL 5, 2021 - VIRTUAL

I. INTRODUCTION AND OVERVIEW

9:30 Opening Remarks and Goals of the Workshop

David Dorman, Committee Chair

II. EMERGING SCIENCE ON INDOOR AIR CHEMISTRY

Session Chair: Allen Goldstein

9:40 Overview of Emerging Research and Discoveries

Charles Weschler

Rutgers Environmental and Occupational Health Sciences Institute

10:05 Indoor Chemistry of Building Materials

Tunga Salthammer

Fraunhofer WKI

10:30 Consumer Products in the Home Environment: Considerations for Indoor Air

Kathie Dionisio

U.S. Environmental Protection Agency

10:55 *BREAK*

11:05 Impact of Air Cleaners and Indoor Chemistry

Richard Corsi

Portland State University

11:30 Research Needs in Indoor Surface Chemistry

Hugo Destailats

Lawrence Berkeley National Laboratory

11:55 *LUNCH BREAK*

III. MONITORING AND EXPOSURE

Session Chair: Rima Habre

12:45 **Emerging Sensor Technologies to Enhance Understanding of Indoor Air Pollutants**

Andrea Polidori
SCAQMD

1:10 **Future Chemicals of Concern: Semi-volatile Compounds in the Indoor Environment**

Deborah Bennett
UC Davis

1:35 **Modeling Exposure to Chemicals in Indoor Air**

John Wambaugh and Kristin Isaacs
U.S. Environmental Protection Agency

2:00 ***BREAK***

IV. CROSS CUTTING ISSUES

Session Chair: Jonathan Abbatt

2:10 **Indoor Chemistry Has Exposure Consequences That Are (Potentially) Health-Relevant**

Bill Nazaroff
UC Berkeley

2:35 **Residential Indoor Air Exposure Disparities**

Gary Adamkiewicz
Harvard University

3:00 **Relationships between the Building and Indoor Chemistry**

Jeff Siegel
University of Toronto

3:25 **Combined Modeling of Organic Chemical Fate and Human Exposure**

Frank Wania
University of Toronto

3:50 ***BREAK***

V. Data Gaps and Research Needs

Session Chair: Delphine Farmer and Bill Bahnfleth

4:00 A Panel Discussion to Explore Research Needs and Data Gaps

Panel Members:

- Bill Nazaroff, UC Berkeley
- Charles Weschler, Rutgers Environmental and Occupational Health Sciences Institute
- Deborah Bennett, UC Davis
- Paul Wennberg, Caltech

Potential Discussion Questions:

- What are the near-term opportunities for incorporating what is known into practice?
- Where will additional chemistry research be most critical for understanding the chemical composition of indoor air and adverse exposures?
- Which components of indoor air matter, and what is their cumulative effect on a number of metrics from safety and comfort (current definition) to health and productivity?
- What are the opportunities for advancing such research by addressing methodological or technological barriers or enhancing coordination or collaboration?

5:00 Adjourn