

# **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 Destaillats

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**