

HEI Research Planning Workshop
Understanding Population-Level Exposures Associated with
Onshore Development of Oil and Natural Gas from Unconventional Resources

Hilton Austin, 500 E 4th St., Austin, TX 78701
September 12-13, 2018

WORKSHOP AGENDA

Purpose of Workshop:

The workshop provides an opportunity for the Energy Research Committee to hear from a broad range of stakeholders about their expert opinions and perspectives on the literature, important knowledge gaps, and research priorities along with the criteria used to define the priorities. This workshop is the second of two workshops. Presentations and group exercises will build on progress made at the July workshop.

The Committee will consider information received during the workshop as it conducts its own review of the literature and formulates research priorities for population-level exposure research. With the benefit of an interdisciplinary group of experts at the workshop, HEI's Energy Research Committee expects to complete a framework of potential human exposure pathways that can serve as a roadmap for research planning.

Workshop Charge Questions:

1. How can existing data be leveraged to understand potential exposures from UOGD?
2. What potential UOGD exposures are not well understood with existing data and merit original research?
 - a. What exposure pathways and phases of UOGD should be the focus?
 - b. In conducting such research, what are your recommendations for considering regulatory, environmental, and industry practice variability over time and across regions?
 - c. What is the value of the research for decision-makers (e.g., regulators, industry, community members, and scientists conducting research)?

HEALTH EFFECTS INSTITUTE – ENERGY RESEARCH PROGRAM

Workshop Chair: George Homberger, Chair, HEI Energy Research Committee		
September 12, 2018 (10:30am to 5:30pm)		
TIME	TOPIC	SPEAKER
10:00-10:30 AM	Registration	
10:30-11:00 AM	INTRODUCTIONS AND WORKSHOP OVERVIEW	
10:30-10:40	Welcome	Bob O'Keefe, Vice President, HEI
10:40-11:00	Introductions	George Homberger, Chair, HEI Energy Research Committee
11:00-11:10	Workshop Objectives and Charge Questions	Donna Vorhees, Director of Energy Research, HEI
11:10 AM-12:00 PM	THE COMMITTEE'S PROGRESS	
11:10-11:45	Overview of exposure literature review and research planning	George Homberger and HEI
11:45-12:00	Discussion	
12:00-1:00	Lunch	
1:00-3:00 PM	PANEL DISCUSSION: Federal and State Oil and Gas Policy - Trends and Research Needs	
<i>Panel Talking Points:</i>		<i>Panelists (in alphabetical order):</i>
<p>1. HEI's Energy Research Committee is charged with recommending population-level research to understand potential human exposures associated with onshore unconventional oil and natural gas development in the United States. To do so, the Committee needs a clear understanding of current national- and state-level oil and natural gas regulations and guidance. For this reason, we ask each panelist to describe current oil and natural gas policy in their jurisdiction and anticipated future trends, focusing on policies most important for the protection of public health (by minimizing exposures).</p> <p>2. HEI's Energy Research Committee has been charged with recommending high priority research that is relevant to policy decisions. To this end, we ask each panelist to advise the Committee about human exposure research related to unconventional oil and natural gas development that they would find most useful.</p>		<p>Megan E. Garvey (Senior Counselor to the Regional Administrator Region 8)</p> <p>Michael E. Honeycutt (Director, Toxicology Division, Texas Commission on Environmental Quality)</p> <p>James C. Kenney (Senior Policy Advisor for Unconventional Oil and Gas, Office of Congressional and Intergovernmental Relations, USEPA)</p> <p>Saba Tahmassebi (Agency Chief Engineer, Oklahoma Department of Environmental Quality)</p> <p>Martha Rudolph (Director of Environmental Programs, Colorado Department of Public Health and Environment)</p> <p>Clint Woods (Deputy Assistant Administrator, Office of Air and Radiation, USEPA)</p>
3:00-3:30 PM	Break	
3:30-5:15	Group Exercise #1 followed by facilitated discussion	
5:15-5:30	Discussion; wrap up for the day; review plan for day 2	
September 13, 2018 (8:00am to 12:00pm)		
TIME	TOPIC	SPEAKER
7:00-8:00 AM	Breakfast	
8:00-10:15 AM	DATA MINING: How can we leverage the data that already exists?	
8:00-8:25	Working smarter not harder, unearthing oil and gas data using intelligent geoinformatics	Kelly Rose (U.S. Department of Energy, National Energy Technology Laboratory)
8:25-8:45	Stalking the Wild Dataset: Informing Policy with Evidence	Kate Konschnik (Duke University)
8:45-9:05	Using Geochemistry Data to Identify Groundwater Quality Issues in Shale Gas Production Areas	Tao Wen (Pennsylvania State University)
9:05-9:25	Existing VOC Measurements from the Colorado Front Range's Oil and Natural Gas Region: Availability, Value, and Limitations	Rebecca Hombrook (University Corporation for Atmospheric Research)
9:25-9:45	Oil and Gas Emission Inventories and Applications for Estimating Impacts to Health and Welfare	Tom Moore (Western States Air Resources Council) and John Grant (Ramboll)
9:45-9:55	Filling in the Gaps in Monitoring Data with Satellite Imaging	Alan Krupnick (Resources for the Future)
9:55-10:15	Air Quality Data from CDPHE's Community Exposure Investigations	Tami McMullin (Colorado Department of Public Health and Environment)
10:15-10:20 AM	Brief Break before Breakout Groups	
10:20-11:50	Group Exercise #2 followed by facilitated discussion	
11:50-12:00	Wrap-up with next steps in research planning and opportunities to comment before RFQ release	