

Energy Webinar #2

Human Exposure Research in a Cyclical Industry Part 2: Releases to Water from Unconventional Oil and Natural Gas Development

May 18, 2021 from 11:30am to 1:15 pm EDT

Register in advance for this webinar: https://zoom.us/webinar/register/WN_X7DpzMq0Qt-4XpUno9v0HQ

Background. Research on potential exposures and health effects associated with unconventional oil and gas development (UOGD) should be grounded in a good understanding of not only exposure assessment and epidemiology, but also the UOGD operations themselves. Study designs would benefit by researchers knowing about specific UOGD operations on and off of the well pad, how they might result in community exposures, and how they vary across space and over time as do, by extension, the exposures associated with them.

Overview of the Webinar. The webinar will increase understanding of specific UOGD processes that might result in releases to surface water or groundwater and trends in the releases - learning from experience and looking to future changes that can influence human exposure. Releases to water might be authorized under federal or state requirements, while others might result from accidental or unauthorized events. The primary goal is to inform policy makers, communities, and others making health-based decisions about UOGD and academics who must factor this information into their study designs to ensure the utility of their human exposure research.

This webinar is part of an HEI-Energy Webinar Series, *Energy Production and Human Health: Surveying Current Knowledge about Exposures from Unconventional Oil and Natural Gas Development*. This series of webinars provides impartial information about human exposure and health effects associated with UOGD with two primary objectives:

1. Inform policymakers, communities, and others making health-based decisions about UOGD.
2. Raise the level of understanding of UOGD operations and, in so doing, help to ensure the utility and relevance of future human exposure and health research.

Webinar Agenda		
Time (Eastern)	Topic	Speaker
11:30 -11:35 AM	Welcome and Introduction	Anna Rosofsky, Staff Scientist, HEI-Energy
11:35 -11:50 AM	UOGD Operations Overview: Water and Wastewater Management	Levi Coon, ConocoPhillips and Robert (Bob) Hendricks, Shell Oil Company
11:50 AM - 12:20 PM	A Tale of Two Regions: Water Quality Oversight in the Western and Eastern Regions of the United States	Amy Clark, USEPA Region 8 Angela McFadden, USEPA Region 3
12:20 -12:35 PM	A Scientist's Challenge: Tools for Identifying UOGD Impacts on Water Quality	Isabelle Cozzarelli, USGS
12:35 - 12:50 PM	Setting State Policy: What Do We Need from Scientific Research?	Julie Murphy, Director, Colorado Oil and Gas Conservation Commission
12:50 -1:15 PM	Panel Discussion with Q&A	Moderated by HEI-Energy