

2019 Shale Network Workshop TENTATIVE Agenda

Monitoring Communities and Their Environment

Thursday, May 16, 2019	
9:30 a.m. – 4:30 p.m.	Field Trip to Eureka Resources, LLC and Wayne Township Landfill <i>(Meet in The Nittany Lion Inn main lobby at 9:30 a.m. to depart at 9:45 a.m.)</i> <i>David Yoxtheimer (Penn State University)</i>
All Sessions are in Boardrooms 1 & 2 at The Nittany Lion Inn unless noted otherwise	
5:30 – 6:30 p.m. <i>Outside Boardrooms 1 & 2</i>	Registration
5:30 – 7:30 p.m. <i>Boardroom 1</i>	Ice Breaker <i>Poster presenters: put posters up for Ice Breaker and poster presentation during lunch Friday.</i>
7:30 – 9:00 p.m. <i>Boardroom 2</i>	Group Discussion <i>(facilitated by the PA Coal – Gas Committee):</i> Issues Related to the Interface of Coal Mining and Natural Gas Development <i>Moderators: Susan L. Brantley (Penn State University), Seth Pelepko (PA DEP)</i> <i>Greg Rumbaugh (MSHA Technical Services), John Love (Dominion Energy Transmission), Carl Carlson (Range Resources), Casey Saunders (Consol), Heather Dougherty, Daniel Su, Steven Schatzel (NIOSH)</i>
Friday, May 17, 2019	
All Sessions are in Boardrooms 1 & 2 at The Nittany Lion Inn unless noted otherwise	
7:15 a.m. <i>Outside Boardrooms 1 & 2</i>	Registration
7:30 a.m. <i>Breakfast located</i>	Continental Breakfast and Poster Setup <i>Speakers, please upload talks before session starts</i>

<i>outside Boardrooms</i>	<i>Poster presenters: put posters up before 8:00 a.m. and remove by 5:00 p.m.</i>
8:00 a.m.	Shale Network: Promoting Better Dialogue about Environmental Issues around Shale Gas Development for Communities <i>Susan L. Brantley (Penn State University), Shale Network Team</i>
8:20 a.m.	Collaboration in Shale Gas Development: The Case of the Center for Responsible Shale Development <i>Jared Cohon (Carnegie Mellon University; Chair of the Center for Responsible Shale Development)</i>
8:40 a.m.	The Trajectory of Shale Gas Development, Natural Gas Liquids, and the Plastics Industry in the Northeastern USA <i>Warren Wilczewski (U.S. Energy Information Administration)</i>
9:00 a.m.	Petrochemical Facility Overview and Update, Monaca PA: The "Cracker Plant" <i>Jim Sewell (Environmental Manager, Shell Chemical Company)</i>
9:20 a.m.	Involving Communities in Decision Making: The PA "Cracker Plant" <i>Jennifer Baka (Penn State University)</i>
9:40 a.m.	Mapping and Reservoir Characterization of Geologic Intervals for Natural Gas Liquids Storage Applications <i>Kristin Carter (PA Geological Survey; Douglas G. Patchen (WV University Research Corporation); Jessica P. Moore (West Virginia Geological and Economic Survey); Mohammad Fakhari (Ohio Division of Geologic Survey); Gary Daft, Philip Dinterman (West Virginia Geological and Economic Survey); Michael P. Solis (Ohio Division of Geologic Survey); Robin V. Anthony, Katherine W. Schmid, Brian J. Dunst, Antonette Markowski, Stephen Shank (PA Geological Survey)</i>
10:00 a.m.	Where Does Frac Water Come From? An Overview of Regulatory and Monitoring Experiences from the Susquehanna River Basin Commission with Focus on Natural Gas Development <i>James Shallenberger (Susquehanna River Basin Commission)</i>
10:20 a.m.	Coffee Break <i>Speakers, please upload talks for next session</i>

<p>10:30 a.m.</p>	<p>Panel Discussion: Can Government, Industry, and Citizenry Work Together? How It Works and How It Could Work <i>Afton Sterling (Southwestern Energy), Jessica Shirley (PA Department of Environmental Protection), Jennifer Baka (Penn State University), Matthew Mehalik (Breathe Project)</i></p>	
<p>11:30 p.m.</p>	<p>Beneficial Re-Use of Shale Gas Brines? <i>Nathaniel Warner, Thomas J. Geeza (Penn State University); David P. Gillikin (Union College); Bonnie McDevitt, Katherine Van Sice, Audrey Stallworth, Frank Dorman, William Burgos, Patrick Drohan, Katherine E. Marak, Miriam Arak Freedman (Penn State University)</i></p>	
<p>11:50 a.m. – 1:00 p.m.</p>	<p>Reception-Style Lunch and Poster Session <i>Afternoon speakers, please upload talks</i></p>	
<p><i>Coffee service located outside Boardrooms</i></p>	<p>Boardroom 1 <i>From Imacts to Exposure</i></p>	<p>Boardroom 2 <i>Connecting Science and Communities</i></p>
<p>1:00 p.m.</p>	<p>A Semi-Quantitative Geospatial Pollutant-Specific Exposure Metric for Use in Health Studies Associated with Unconventional Natural Gas Development in Pennsylvania James Fabisiak (University of Pittsburgh)</p>	<p>Petrochemical Development and Plastics: Community Impacts and Economics Matthew Mehalik (Breathe Project)</p>
<p>1:20 p.m.</p>	<p>Investigating Hydrocarbon Sources in Upland Groundwater, Marcellus Shale Region, Northeastern Pennsylvania and Southern New York Bruce Lindsey, Peter B. McMahon, Matthew Conlon (U.S. Geological Survey)</p>	<p>Connecting Community Organizations, Schools, and Volunteers through Water Quality Monitoring Holly Travis, Katie Farnsworth (Indiana University of PA); Matt Genchur (Stormwater Education Partnership)</p>
<p>1:40 p.m.</p>	<p>What to do with shale gas brines if recycling for hydraulic fracturing is not feasible?</p>	<p>Working with citizen scientists and homeowners to understand hydrocarbon-related contamination of water resources near oil and gas development</p>

	Radisav D. Vidic, Vikas Khanna <i>(University of Pittsburgh)</i>	Josh Woda, Tao Wen <i>(Penn State University); Jacob Lemon</i> <i>(Trout Unlimited); Frederick B. Zelt</i> <i>(Independent Geoscientist); Chuck Keeports</i> <i>(National Forest Service); Susan L. Brantley, (Penn State University)</i>
2:00 p.m.	Break for coffee, rooms opened back up for Plenary	
2:15 p.m.	Methane Emissions from New and Legacy Oil and Gas Development <i>Mary Kang (McGill University)</i>	
2:35 p.m.	Methane Emissions from Unconventional Natural Gas Production in the Marcellus Shale <i>Zachary Barkley, Ken Davis (Penn State University); Thomas Lauvaux (Universite Paris-Saclay); Aijun Deng (Utopus Insights, Inc); Natasha Miles, Scott Richardson (Penn State University); Colm Sweeney, Alan Fried (University of Colorado)</i>	
2:55 p.m.	A Status Report on the Management of Legacy Well Liability by PA DEP <i>Seth Pelepko, Harry Wise, Serena Oldhouser (PA DEP)</i>	
3:15 p.m.	A Legal Perspective on Abandoned Wells in Pennsylvania <i>Katherine Knickelbein and Rick Watling (Office of Chief Counsel for the PA DEP)</i>	
3:35 p.m.	Wrap Up Plenary Discussion: What Do We Need to Do Next? <i>Susan L. Brantley, Radisav Vidic, Jennifer Baka</i>	
4:00 p.m.	Assessment and Adjournment <i>Poster presenters, please remove your posters promptly.</i>	