

Upcoming Webinar

Community Exposures to Air Emissions and Noise from Oil and Gas Development, Part 1

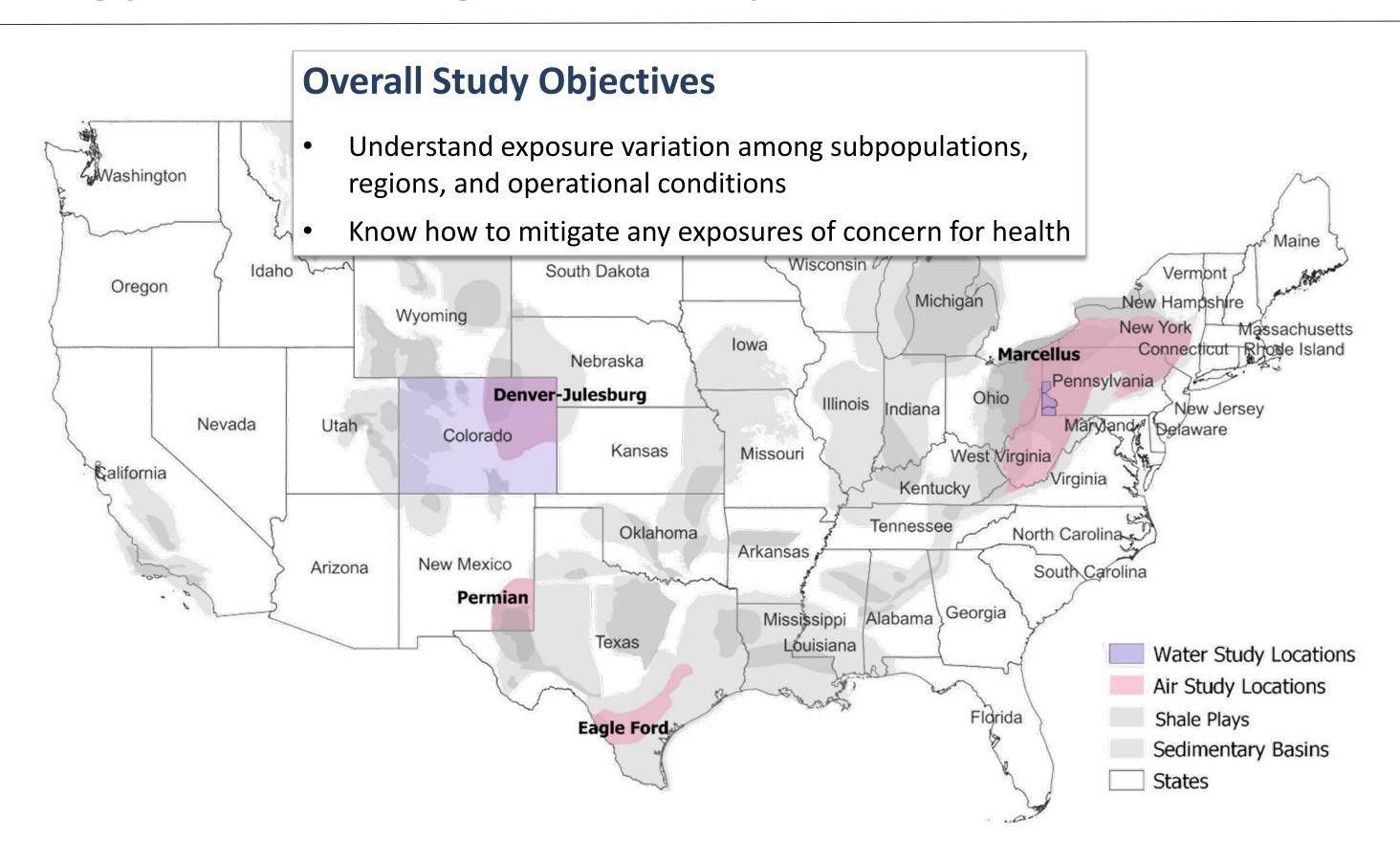


WEDNESDAY, JAN. 29, 2025



3:00PM-4:30PM (EST)

HEI Energy Initial Program of Exposure Research





HEI Energy-Funded Research about Population Exposures to Oil and Gas Development

Schade

CO

NM

Air Quality Trends in Texas and Colorado Associated with Unconventional Oil and Gas Development

Ryan

Assessing the Effects
Unconventional Oil and Gas
Development on Community
Water Sources

Collett

Measuring and Modelling Air
Pollution and Noise Exposure Near
Unconventional Oil and Gas
Development in Colorado

Saiers

A Groundwater Modeling Framework for Elucidating Community Exposures Across the Marcellus Region to Contamination Associated with Oil and Gas Development

Baek

Long-term criteria and toxic pollutants trends and community exposures over the Marcellus Shale in the U.S.

Gernand

Trends in Marcellus-Utica Shale Regional Air Quality due to Unconventional Oil and Gas Development (TriMAQs)

Baka

Using Geoscientific Analysis and Community Engagement to Analyze Exposures to Potential Groundwater Contamination



Franklin

Assessing Source Contributions to Air Quality and Noise in Unconventional Oil Shale Plays



Predictive, Source Oriented Modeling and Measurements to Evaluate Community Exposures to Air Pollutants and Noise from Unconventional Oil and Gas Development



The TRACER Collaboration

Genesis of the collaboration

- > HEI's Energy Research Committee reviewed the literature on potential population exposures to oil and gas development and requested applications for research that provides tools and measurements for better quantifying exposures.
- > The Committee chose three applications and concluded that a collaboration among them was the best way forward to meet overall research needs.

TRACER Model a central focus

> Can be adapted for use anywhere in the U.S. to track changes in emissions and exposure over time.

Air quality and noise monitoring over the life cycle of oil and gas wells to understand potential exposures at different distances from well sites and to evaluate the TRACER model.

NASA HAQAST project complements the TRACER collaboration by analyzing and modeling satellite-observation data that overlap TRACER study locations.

Air Quality and Noise

<u>Tracking Community Exposures</u> and Releases (TRACER) Collaboration



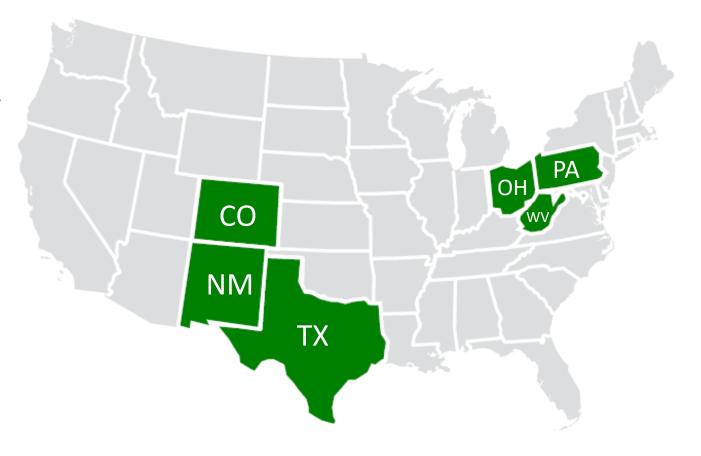


Jeffrey Collett Colorado State

Lea Hildebrandt Ruiz Meredith Franklin Univ of TX-Austin

Univ of Toronto

Study Duration: 2022 - 2024



What's Next?

- HEI will make the webinar available on our website in the coming weeks:
 https://HEIenergy.org/events
- Stay tuned for future announcements related to these projects and registration for Part 2
 of this webinar series on <u>February 13th at 11am ET</u>
- Community Open Houses on March 13, March 25, and April 7, 2025
- TRACER Website in May 2025
- HEI **2025 Annual Conference** in Austin May 4-6, 2025
 - A full session dedicated to the TRACER collaboration and a poster session with all HEI Energyfunded research
- Final reports for each of these studies coming in 2025
- In the meantime, stay up to date with this work!
 - HEI Energy: https://www.heienergy.org/research



Thank you!

For more information:

- Hildebrandt Ruiz: https://sites.utexas.edu/hr-group/
- Franklin: https://meredithfranklin.github.io/
- Collett: https://collett.atmos.colostate.edu/research-projects/
- HAQAST: https://haqast.org/ and https://haqast.org/ tiger-teams/

We will send a follow-up email with the webinar recording and other materials including a quick feedback survey.

