



We wish you a safe and joyful holiday season!

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Upcoming Webinar: Mastering the Art of Applying for Faculty Positions



Join us on January 27 at 3:15 PM CT for the next session in our 2026 Webinar Series! Our speaker, **Dr. Christopher Depcik**, Professor in the Department of Mechanical Engineering at the University of Kansas, will share expert strategies for preparing application materials that stand out in competitive faculty searches. *Registration is required to attend the event.*

[Register](#)

Don't have time to attend? Our [webinars](#) are recorded and can be watched on demand.

Convergent Research New Publications

Model Comparison of Performance, Operating and Capital Cost, and Environmental Impact for HFC-32/HFO-1234yf Mixtures as a Low Global Warming Alternative to R-410A

Clarice M. Sabolay, Lokesh S. Valluru, and Mark B. Shiflett*

Ind. Eng. Chem. Res. Article ASAP
DOI: 10.1021/acs.iecr.5c02778



[Read the Article](#)

Trifluoroacetic Acid Formation from HFC-134a under Atmospheric Conditions

Allen Vincent, Kazuumi Fujioka, Yuheng Luo, Ralf I. Kaiser, and Rui Sun*

Phys. Chem. Chem. Phys. Article ASAP
DOI: 10.1039/D5CP03359D



[Read the Article](#)

Click [here](#) to see a list of all EARTH peer-reviewed publications.

Member Spotlight

Yoonjung Ahn, assistant professor of geography and atmospheric science at the University of Kansas, has developed the *most detailed national map of air conditioning access ever created*. Her dataset delivers critical insights for public health officials, emergency managers, energy planners, and policymakers and will help ERC EARTH advance equitable, climate-resilient cooling strategies.

Ahn's research provides a strong foundation for targeted interventions, energy efficiency programs, and policy decisions that protect those most at risk. By combining big data, spatial analysis, and predictive modeling, her work reflects the interdisciplinary innovation that ERC EARTH champions and will play a vital role in reducing heat-related hazards as the climate continues to warm.



[Learn More](#)

Engineering Workforce Development Early-Career Scientist Opportunities

The CAS Future Leaders program empowers **Ph.D. students and postdocs** to become science leaders through exclusive training, networking, and professional development. Selected participants receive an expense-paid trip to CAS Headquarters in Ohio and the ACS Fall Meeting in Chicago, plus ACS membership and opportunities to present research. This program offers hands-on leadership workshops, access to global innovators, and lifetime membership in a vibrant scientific community.

Applications open December 1, 2025, and close January 25, 2026.

[Learn More](#)

Announcements and Reminders

Please use the following statement in your publication acknowledgements:

“This research is based upon work supported by the National Science Foundation under award number **EEC-2330175** for the Engineering Research Center EARTH.”

Did you know that an EARTH Convergent Research (CR) Meeting Calendar is maintained in the shared Google folder? You can view the entire 2025 calendar [here!](#)

Upcoming meetings

December 11: Thrust 2 (3 pm ET)

December 18: Thrust 3 (3 pm ET)

January 8: Convergent Research Leadership (3 pm ET)

January 15: Thrust 1 (3 pm ET)

January 22: Thrust 2 (3 pm ET)

Connect with EARTH on Social Media





The Environmentally Applied Refrigerant Technology Hub (EARTH) is working to create sustainable, accessible refrigeration and air conditioning innovations that will improve the quality of life for all Americans and secure U.S. leadership in workforce development and manufacturing.

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