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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 available on demand.*

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## Convergent Research New Publications

\*Corresponding author(s); ASAP: As Soon As Publishable

**Vapor Pressure Estimation of Imidazolium-Based Ionic Liquids via Non-Isothermal Thermogravimetric Analysis (TGA) and Its Implications for Process Design**

Abdulrhman M. Arishi and Mark B. Shiflett\*

*Ind. Eng. Chem. Res. Article ASAP.*

DOI: 10.1021/acs.iecr.5c03459



[Read the Article](#)

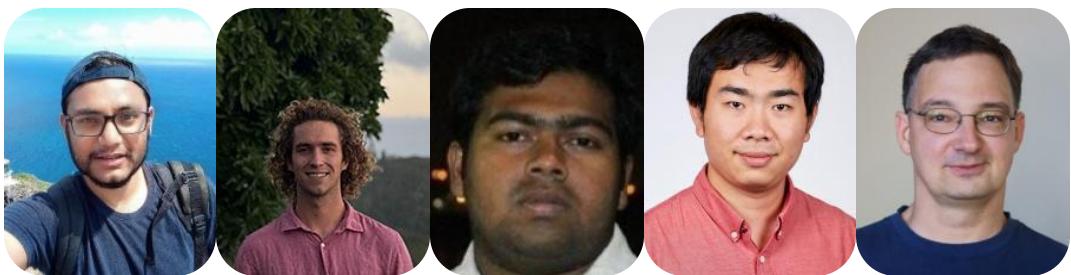
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**Investigation of Freezing-Induced Anionic Interplay in Acoustically Levitated Artificial Seawater Droplets**

Frank Liang, Souvick Biswas, Nils W. Melbourne, Koushik Mondal, Rui Sun, and Ralf Kaiser\*

*J. Phys. Chem. A Article ASAP.*

DOI: 10.1021/acs.jpca.5c06239



[Read the Article](#)

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**Measurement and Modeling of the PVT Behavior and Viscosity of Bis(2-Hydroxyethyl) Terephthalate and Mixtures with Ethylene Glycol Using PC-SAFT and Entropy Scaling**

Diego T. Melfi and Aaron M. Scurto\*

*J. Chem. Eng. Data Article ASAP.*

DOI: 10.1021/acs.jced.5c00646



[Read the Article](#)

*Click [here](#) to view all EARTH peer-reviewed publications.*

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**Funding Opportunities**

The [NSF Trailblazer Engineering Impact Award \(TRAILBLAZER\)](#) supports **individual investigators pursuing bold, novel research directions that differ from their current work** and have the potential to address national needs or grand challenges. Projects should demonstrate creativity and innovation. Example project areas include but are not limited to: AI, bioengineering, quantum engineering, robotics, and nuclear engineering.

## Key Dates

*January 20:* Letter of Intent Due  
*March 10:* Preliminary Proposal Due  
*July 24:* Full Proposal Due

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## Engineering Workforce Development

### The Adventures of EARTH Man

Visit our [website](#) to explore this month's comic and catch up on past adventures that bring sustainability and engineering to life!

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## 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.”

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Did you know that an EARTH Convergent Research (CR) Meeting Calendar is maintained in the shared Google folder? You can view the entire 2026 calendar [here!](#)

## Upcoming Meetings

*January 15:* Convergent Research Leadership Meeting (3 pm ET)  
*January 22:* Thrust 1 Meeting (3 pm ET), Crosscut 2 Meeting (4:30 pm ET)  
*January 29:* Thrust 2 Meeting (3 pm ET)  
*February 5:* Thrust 3 Meeting (3 pm ET)  
*February 12:* Convergent Research Leadership Meeting (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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