

ASSEMBLY REQUIRED

May 2025

H₂
GREEN
HYDROGEN

THE WATER COOLER

Leadership of PEPM Group recently attended the annual Petfood Forum 2025 in Kansas City. Many of our food processing clients also have operating divisions in the Petfood industry. We were able to renew client relationships and develop new relationships in the industry. The event was attended by more than 3600 pet food professionals from over 50 countries and featured 385 total exhibiting suppliers including 91 first-time exhibitors.



PEPM Group begins an engineering project at a turkey plant in Arkansas. This project will focus on mechanical engineering, and modeling for multiple chillers and process piping systems including high pressure hot water and city water system, compressed air system and chemical piping system. To ensure accuracy, our mechanical engineer and 3D tech will visit the site to verify existing conditions and proposed plans.

We look forward to this opportunity to apply our expertise and contribute to customer's business growth.

PEPM Group welcomes Kolby Kirk, EI, as our Senior Structural Engineer on the growing CSA team! Kolby holds a bachelor's degree in civil engineering from the University of South Alabama and brings over six years of expertise in structural and civil engineering across industrial and commercial buildings, as well as steel and concrete structures.



PEPM Group welcomes Sai Shanmuka as our new Lead Designer! With a bachelor's degree in mechanical engineering and over 12 years of expertise in design and 3D modeling across oil & gas, energy & power, and refinery plants, Sai brings a wealth of knowledge and innovation to our team.



WE ARE HIRING!

For a long-term fulfilling career, a caring, encouraging, and respectful workplace, contact PEPM. Apply today at www.pepmgroup.com/careers

- **Project Engineer, Project Manager** (Fayetteville, AR), 5+ years of proven working experience in engineering, oil and gas and energy business, as well as in project management in engineering, construction, or fabrication, PE preferred.
- **Senior Electrical Engineer** (Fayetteville, AR), 6+ years of electrical design work in industrial engineering, 4+ years of field experience, proficiency in designing, installing, and maintaining electrical systems required, proficiency in AutoCAD 2D AND Revit 3D for electrical system design required, bachelor's degree in electrical engineering is required, electrical PE preferred



NEW DISCOVERY SHOWS HOW MOLECULES CAN MUTE HEAT LIKE MUSIC

Imagine you are playing the guitar -- each pluck of a string creates a sound wave that vibrates and interacts with other waves. Now shrink that idea down to a small single molecule, and instead of sound waves, picture vibrations that carry heat.

A team of engineers and materials scientists in the Paul M. Rady Department of Mechanical Engineering at CU Boulder has recently discovered that these tiny thermal vibrations, otherwise known as phonons, can interfere with each other just like musical notes -- either amplifying or canceling each other, depending on how a molecule is "strung" together.

Phonon interference is something that's never been measured or observed at room temperature on a molecular scale. But this group has developed a new technique that has the power to display these tiny, vibrational secrets.

The group says their findings will help researchers around the world gain a better understanding of the physical behaviors of phonons, the dominant energy carriers in all insulating materials. They believe one day, this discovery can revolutionize how heat dissipation is managed in future electronics and materials.

Original Article: New discovery shows how molecules can mute heat like music: [Science Daily](#).

WE WANT YOUR FEEDBACK!

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To ensure a great newsletter, let us know what you think! Your ideas and stories can make this newsletter a truly engaging experience. Send your suggestions to yzhang@pepmgroup.com. *Your feedback is greatly appreciated and valued!*

GET PROPOSAL Have questions about MEP, CSA, industrial refrigeration, process design, architectural, or project management? Contact PEPM Group at yzhang@pepmgroup.com, admin@pepmgroup.com, (918) 895-6766, or visit www.pepmgroup.com.



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IN THE KNOW...

May, which is the fifth month in the Julian and Gregorian calendar, is named after the Greek Goddess Maia.

1990 Hubble Space Telescope sends its 1st photographs from space

1952 The concept of the integrated circuit, the basis for all modern computers, is first published by Geoffrey Dummer.

1931 Empire State Building opens in New York City as the world's tallest building.

1927 Charles Lindbergh takes off from New York to cross the Atlantic for Paris, aboard Spirit of St Louis in the 1st solo nonstop transatlantic flight.

1889 Exposition Universelle (World's Fair) in Paris opens with the recently completed Eiffel Tower as the entrance arch.

1804 Meriwether Lewis and William Clark's expedition sets out from St. Louis for the Pacific Coast.

1775 Second Continental Congress convenes in Philadelphia, Pennsylvania and issues paper currency for 1st time

1570 First atlas 'Theatrum Orbis Terrarum' (Theatre of the World), published

Original Article: OnThisDay.com