

ASSEMBLY REQUIRED

March 2024



THE WATER COOLER

Tulsa Mayor G.T. Bynum has appointed Yi Zhang, P.E., S.E., founder and principal engineer of The PEPM Group to the Tulsa Asian Affairs Commission. The commission is one of the city's Authorities, Boards, and Commissions and is supported by the Mayor's Office of Resilience and Equity. Yi feels a deep sense of responsibility and desire to give back to the community and holds a passion for seeing the City of Tulsa reach its highest potential. She is looking forward to working with the other commission members to continue making Tulsa a welcoming, resilient, world-class city. Please join us in congratulating Yi's appointment.

The PEPM Group's engineering team is heading to a poultry process facility in Pine Bluff, Arkansas for a structural engineering project. The project has a tight deadline and requires the modification of the existing structural steels connected to the new structural platform.

The PEPM Group completed a flare project in western Oklahoma in late February. The project included flare, knock out drum, acid drum, control rack, multiple pipelines, and pipe bridge. PEPM engineers provide civil, structural, mechanical, electrical, 3D modeling, and detail drawings for the project.

The PEPM Group also started a refrigeration engineering and P&IDs project in a food distribution center in Pottsville, Pennsylvania this month.

For your engineering, 3D modeling, and drafting needs, contact PEPM Group. We invest and utilize state of the art engineering programs including STAAD Pro, STAAD Foundation, Ram and Idea Static, CAESAR II, Compress, MecaStack, LPile, CADWorx, AutoCAD, Revit and BIM, and MathCAD. We provide real world engineering and drafting services to build value for our customers.

ENGINEERING INSIGHT

Food Processing Plant Ventilation 5:

Condensation Control

- Important in clean up areas, docks, and in coolers.
- Can be achieved by heating or drying fresh intake air to lower the relative humidity.
- Warm dry air acts as a "sponge" to remove condensation.
- Positive pressure will retard warm moist air.
- Properly balance – don't short circuit.
- Psychometric charts are helpful in sizing air handling using relative humidity, wet bulb and dry bulb temperatures of a given location. (Consult Eng. Services)
- Every facility is different and needs a room by room analysis to solve condensation issues.

WE ARE HIRING!

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

- Senior Electrical Engineer (Fayetteville, AR or Tulsa, OK) - 8+ years of experience, PE required.
- Civil or Structural Engineer (Fayetteville, AR or Tulsa, OK) - 5+ years of experience
- Lead or Senior Structural Engineer (Tulsa, OK or Fayetteville, AR) - 8+ years of experience. PE required.



CELEBRATING WOMEN'S HISTORY MONTH: FEMALE ENGINEERS WHOSE INVENTIONS CHANGED THE WORLD

Women's History Month is a celebration of women's contributions to history, culture, and society and has been observed annually in the month of March in the United States since 1987. In honor of Women's History Month, learn more about female engineers whose inventions changed the world:

- **Ada Lovelace.** Decades before the first computers, Lovelace worked out how to use an Analytical Engine to perform calculations - the first algorithms.
- **Tabitha Babbitt.** Struck by wasted effort of using a two-man whipsaw to chop wood, Babbitt developed a water-powered circular saw.
- **Alice Parker.** In 1919, Parker patented a technically complex and intricate gas-powered heating system for the home.
- **Hedy Lamarr.** A global film star, Lamarr spent her free time developing 'frequency hopping,' allowing the U.S. military to control weapons remotely; this technique is the basis of many types of wireless communication, including Wi-Fi.
- **Josephine Cochrane.** After having her fine china chipped by a careless servant, Cochrane searched for a safer alternative, resulting in the first commercially successful automatic dishwasher.



HAPPY ST. PATRICK'S DAY

IN THE KNOW...

The name for March comes from Mars, the Roman god of war. It was named as such in both the Julian and Gregorian calendars.

2017 Chemical elements Moscovium, Tennessine, and Oganesson were added to the Periodic Table of Elements.

2009 NASA's Discovery Space Shuttle launched from the Kennedy Space Center on mission STS-119.

1985 The very first .com domain was registered.

1949 Automatic street lights first appeared in New Milford, Connecticut, US.

1836 The Republic of Texas declared independence from Mexico during the Texas Revolution.

1602 The Dutch East India Company was established.

1345 Saturn, Jupiter, and Mars came into alignment; medieval scholars believed this phenomenon brought forth the Black Death.

44 BC Julius Caesar was assassinated.

The HOT SPOT

Four Predictions for the Future of Poultry Health Control

In the future, whole genome sequencing, CRISPR, robotics, new vaccines, and other technologies could play a major role in poultry health prevention, management...

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AI Breakthroughs in Construction

Artificial Intelligence (AI), a term coined in 1956, refers to the capability of machines to imitate human intelligence. Over the decades, AI has...

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Record US Oil and Gas Production

U.S. production of oil and gas set new seasonal records in December 2023, capping off an unprecedented year, according to data published by the U.S. Energy Information Administration...

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Survey Reveals 'Insatiable' Appetite for Chicken

While consumption of turkey, pork, and beef has been largely stable, consumers report that they have been and will continue to eat more chicken.

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Navigating Green Building Regulations

As green building regulations and standards gain momentum across the U.S., now is the time for commercial property investors to act and...

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WE WANT YOUR FEEDBACK! ανάδραση (Greek for feedback)

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, call (918) 895-6766, or visit www.pepmgroup.com.

March AWARENESS DAYS

- MAR 1** Zero Discrimination Day
- MAR 2** Rescue Cat Day
- MAR 3** Canadian Bacon Day
- MAR 4** Marching Band Day
- MAR 5** Town Meeting Day
- MAR 6** Dentist Day
- MAR 7** Sock Monkey Day
- MAR 8** International Women's Day
- MAR 9** Genealogy Day
- MAR 10** Daylight Savings
- MAR 11** Napping Day
- MAR 12** Equal Pay Day
- MAR 13** K9 Veterans Day
- MAR 14** Crowdfunding Day
- MAR 15** Essential Workers Day
- MAR 16** Panda Day
- MAR 17** Camp Fire Girls Day
- MAR 18** Recycling Day
- MAR 19** Clients' Day
- MAR 20** Astrology Day
- MAR 21** Big Bang Day
- MAR 22** Daffodil Day
- MAR 23** Chips and Dip Day
- MAR 24** Cheesesteak Day
- MAR 25** Full Moon
- MAR 26** Good Hair Day
- MAR 27** Little Red Wagon Day
- MAR 28** Hot Tub Day
- MAR 29** Mermaid Day
- MAR 30** Pencil Day
- MAR 31** Farm Workers' Day



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