

ASSEMBLY REQUIRED

February 2024

THE WATER COOLER

The PEPM Group (PEPM) is excited to WELCOME Jul Hasnan, P.E., senior structural engineer to our growing engineering team. Jul holds a Bachelor of Science degree in Civil Engineering from Purdue University and University of South Alabama. He has eleven years of experiences in structural engineering design with deep understanding in construction and strong field background. Jul's structural engineering design profile includes multiple 50,000 to 700,000 SF industrial and commercial buildings, as well as smaller structures. Before joining PEPM, Jul was the working engineering manager for the CSA team of an engineering company. Jul, his wife and two young daughters relocated from Mobile, Alabama to Broken Arrow, Oklahoma recently.

Congratulations to Jay Pascual, P.E., PEPM's lead mechanical engineer on his election to the Arkansas Academy of Mechanical Engineering (AAME)! Jay feels a deep sense of responsibility and desire to give back to the community. In our country's finest tradition of volunteerism, his election will contribute to the national STEM program and lead the young men and women into the greatest engineering field with lifelong fulfilling career, and support the country's economic growth. Please join PEPM to celebrate his election banquet 6:30 on Friday, 19 April 2024, at The Fayetteville Public Library, 401 W. Mountain Street, Fayetteville, AR 72701

The PEPM Group (PEPM) has started multiple structural engineering projects in Texas, Wisconsin and Nebraska this month. The projects consist multiple large crude condenser cooling towers and regeneration gas air coolers, PEPM engineers will utilize MathCAD, STAAD Pro, Ram and IdeaStatica programs as part of engineering. 3 structural engineers from PEPM structural team are working together to meet the schedules.

The PEPM Group (PEPM) is providing refrigeration drafting, P&IDs and engineering for multiple food processing facilities in Arkansas, Oklahoma, Nebraska, Kansas and Washington.

The PEPM Group (PEPM) is completing the design phase of the educational beef process plant design by the end of February and proceeding to the next phase of owner engineers with bid evaluation and construction administration. For bid information, please contact PEPM at Jpascual@pepmgroup.com.

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 4:

System Balancing

Room Pressure – Relative to What?

- Final Process to Kill Floor – relative air flow
- Boiler rooms must run positive or balanced
- Freezers must run positive
- Cut floors and further processing must be positive
- Positive pressure can displace cold air and dirty air
- Positive pressure can push open doors and allow heated or refrigerated air to escape
- Slightly negative/null:
 - o Ammonia machinery rooms
 - o Chemical Storage
 - o Battery Charging
 - o Welding/Maintenance Areas

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.



INTRODUCE A GIRL TO ENGINEERING DAY: FEBRUARY, 2024

Introduce a Girl to Engineering, or Girl Day, is a time when volunteers, educators, and others act as role models, facilitate engineering activities, and show girls how engineers change our world. Role models are diverse, but they have one thing in common - the understanding that role models can inspire girls and boys from all communities and backgrounds. Below are some tips for being a role model:

- **Talk with a child about engineering.** Sometimes one interaction can change the course of a child's future.
- **Visit with students online or in-person.** In as little as 45 minutes you can tell the students about your job, how your work makes a difference, lead a hands-on engineering activity, and answer their questions!
- **Be a mentor or judge.** Sign up! Future City virtual mentors and judges help students see the wonders of engineering as they create cities of the future.

HAPPY VALENTINE'S DAY

IN THE KNOW...

February was named for the Roman word "februum," which means purification. At one time, February only had 23 days; that would make the months of the year rhyme a bit more complicated.

2019 ScienceMag reported that honey bees are found to be able to use colors to help them carry out simple arithmetic.

2005 YouTube was founded and the domain name youtube.com was activated.

1986 Halley's Comet was last seen from Earth. It only orbits the Earth once every 75 to 76 years.

1935 A polygraph test was conducted by its inventor, Leonarde Keeler, for the first time.

1876 Alexander Graham Bell applied for a patent for the telephone.

1852 London opened the world's first public flushing toilets.

1616 The Roman Inquisition ordered Galileo not to teach or defend his theory that Earth and other planets revolve around the sun.

The HOT SPOT

February
**AWARENESS
DAYS**



Essential Oils Can Protect Poultry Against Pathogens

Essential oils have a positive impact on the poultry gut microbiota against pathogenic bacteria, such as E. coli. Nathalie Bonal, Photosynthese, explained...

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Tips to Help Young Professionals Start Their Poultry Career

Graduate and PhD students in poultry met at DSM's Building Your Future event to talk about common challenges that may arise when applying for jobs...

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Construction's Manufacturing Boom

Spending in the manufacturing sector has ballooned since the CHIPS Act was signed into law in August 2022. Projects underway include everything from plants...

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AI Use Build in the Construction Industry

Over the last year, artificial intelligence (AI) has quickly evolved from a tantalizing technical novelty like ChatGPT into a credible and valued...

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Global gas demand set for stronger growth in 2024

Demand is rebounding as a result of expected colder weather and lower prices, IEA's latest Gas Market Report says, but limited new LNG production means supply will remain tight..

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WE WANT YOUR FEEDBACK!

Mana'o (Tahitian 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.

- FEB 1** Optimist Day
- FEB 2** Groundhog Day
- FEB 3** Women Physicians Day
- FEB 4** Homemade Soup Day
- FEB 5** Weatherperson's Day
- FEB 6** Chopsticks Day
- FEB 7** Periodic Table Day
- FEB 8** Boy Scouts Day
- FEB 9** Pizza Day
- FEB 10** Umbrella Day
- FEB 11** Inventors' Day
- FEB 12** Clean Your Computer Day
- FEB 13** Fat Tuesday
- FEB 14** Valentine's Day
- FEB 15** Nirvana Day
- FEB 16** Do a Grouch a Favor Day
- FEB 17** Red Sock Day
- FEB 18** Crab Stuffed Flounder Day
- FEB 19** Chocolate Mint Day
- FEB 20** Comfy Day
- FEB 21** Sticky Bun Day
- FEB 22** Margarita Day
- FEB 23** Dog Biscuit Day
- FEB 24** Tortilla Chip Day
- FEB 25** Chocolate Nut Day
- FEB 26** Set a Good Example Day
- FEB 27** Retro Day
- FEB 28** Tooth Fairy Day
- FEB 29** Time Refund Day



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