

# ASSEMBLY REQUIRED

April 2024



## THE WATER COOLER

The PEPM Group is delighted to welcome Erikah Davis as the new Office Administrator. Erikah brings a wealth of experience in client relationship management, marketing, and accounting management, including invoicing and billing. Erikah attends Oral Roberts University's School of Business, where she is an active member of the Finance Society and Empowered Women organizations. Her diverse skill set and educational background make her an excellent addition to our team.

This month, the PEPM Group was awarded additional engineering, modeling, and drafting work for a project located in South Korea, where the end user is a world leading clean energy and chemical company. PEPM provides mechanical, structural and electrical engineering, as well as 3D modeling, isometric drawings and detail drawings for the projects. CAESAR II, STAAD, CadWorx, AutoCAD, NavisWorks, IDEA StatiCa, MathCAD and other engineering and modelling programs will be utilized during the projects.

The PEPM Group has commenced structural engineering and drafting services for two clients this month.

The PEPM Group started multiple structural, mechanical and refrigeration engineering projects this month, including an electrical and structural engineering project in a beef process facility in Dallas, Texas, and structural engineering projects in Portland, Maine and Waldron, Arkansas and a refrigeration and SRV project in Pottsville, Pennsylvania.

*For your structural, mechanical, electrical engineering, 3D modeling, and drafting needs, contact [jpascual@pepmgroup.com](mailto:jpascual@pepmgroup.com), [yzhang@pepmgroup.com](mailto:yzhang@pepmgroup.com) and [admin@pepmgroup.com](mailto:admin@pepmgroup.com). The PEPM Group is a leading company for plantwide ventilation and air studies and has provided more than 25 ventilation and air study evaluation projects for multiple customers throughout the country.*

## ENGINEERING INSIGHT

### Food Processing Plant Ventilation 6:

Chemical Storage Room Design:

- Location
- MSDS
- Volume or pounds of chemical stored.
- Supply & Exhaust
- Air tight - windows, doors, louvers, etc.
- Electrical - Fixtures
- Temperature

Chlorine Gas:

- 10 States Standard
- Total Room Volume - ACFM Required
- Stand Alone Ventilation

Continuous HVAC:

- Design codes and parameters vary.
- Scrubber
- Emergency Supply and Exhaust
- Detection System
- 10ppm max
- Min of two sensors/receivers (NEMA 4X
- Detector legs - 1' AFF
- Alarm detection outside each door (audible & red strobe)
- Switches for fans & lights



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# 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](http://www.pepmgroup.com/careers)

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



## IN THE KNOW...

April (Aprilis) is thought to stem from the Latin aperio, meaning "to open," a reference to the opening buds of springtime. Originally, April only had 29 days, but a 30th day was added when Julius Caesar established the Julian calendar.

**2005** NASA celebrated April Fool's Day by telling the world they found water on Mars.

**1986** The explosion of the Chernobyl nuclear plant in Ukraine occurred on April 26, which forced everyone within a 300-mile radius to be evacuated.

**1964** Ford unveiled their first Mustang on April 17, costing \$2,368.

**1896** After a 1,500-year break, the first Olympics of the modern era took place on April 6, in Athens.

**1775** The first battle of the Revolutionary War, Lexington, and Concord, broke out on April 19.

**1748** The lost Roman city of Pompeii was rediscovered by a Spanish engineer Rocque Joaquin de Alcubierre.



## APRIL IS STRESS AWARENESS MONTH, A TIMELY REMINDER FOR ENGINEERS TO PRIORITIZE MANAGING STRESS

As an engineer, you may face tight deadlines, complex problem-solving, and constant technological changes - all of which can contribute to elevated stress levels. However, implementing effective stress management strategies can help you stay sharp, focused, and resilient.

Try incorporating these tips into your engineering workday!

- Practice time management - Create a realistic schedule and use productivity tools to stay organized and on track.
- Take regular breaks - Step away from your desk every 60-90 minutes to stretch, meditate, or simply clear your mind.
- Prioritize self-care - Ensure you're getting enough sleep, eating nutritious foods, and engaging in physical activity.
- Communicate openly - Don't hesitate to reach out to colleagues, managers, or a mental health professional if you're feeling overwhelmed.
- By proactively managing stress, you can maintain your engineering edge, boost creativity, and deliver high-quality work - even during the most demanding projects. This April, make stress management a priority for your professional and personal well-being.

# The HOT SPOT

## How to win without being the low bidder

It is possible for contractors to secure projects based on value over price, writes consultant Chad Prinkey. Chad Prinkey is CEO of Well Built Construction Consulting, a Baltimore-based firm that delivers strategic consulting, facilitation...

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## The eco-momentum is building: greener construction

These days we hear a lot about climate action, green policies, sustainable building and a host of other related terms...

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## OSHA publishes final employee walkaround rule

The May 31 change reverts to a long-standing practice that gives employees the right to select a third-party advocate to accompany an...

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## MSU researcher develops method to ID defects in poultry production

Yuzhen Lu, Biosystems and Agricultural Engineering assistant professor, is developing a new...

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## How Shoe Engineering Transformed Competitive Running

When you think of high-tech engineering, your mind might turn to thoughts of cars, phones or computers..

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## WE WANT YOUR FEEDBACK!

### Rückmeldungen (*German 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](mailto: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](mailto:yzhang@pepmgroup.com), [admin@pepmgroup.com](mailto:admin@pepmgroup.com), call (918) 895-6766, or visit [www.pepmgroup.com](http://www.pepmgroup.com).

APRIL

# AWARENESS DAYS

- APR 1** April Fools' Day
- APR 2** Geologists Day
- APR 3** Find a Rainbow Day
- APR 4** Burrito Day
- APR 5** Self-Care Day
- APR 6** Library Day
- APR 7** No Housework Day
- APR 8** Zoo Lovers Day
- APR 9** Unicorn Day
- APR 10** Siblings Day
- APR 11** Pet Day
- APR 12** Only Child Day
- APR 13** Plant Appreciation Day
- APR 14** Gardening Day
- APR 15** ASL Day
- APR 16** Good Deeds Day
- APR 17** Fly a Kite Day
- APR 18** Animal Crackers Day
- APR 19** Garlic Day
- APR 20** Look-Alike Day
- APR 21** Tea Day
- APR 22** Earth Day
- APR 23** Lost Dogs Awareness Day
- APR 24** Bucket List Day
- APR 25** Bus Drivers' Day
- APR 26** Arbor Day
- APR 27** Little Red Wagon Day
- APR 28** Superhero Day
- APR 29** Astronomy Day
- APR 30** Adopt a Pet Day



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