

ASSEMBLY REQUIRED

January 2024



THE WATER COOLER

PEPM is heading to IPPE; we will be Atlanta from 1/30/2024 to 2/1/2024 seeing our friends/customers. Please drop us a note or an email if you are there, we will see you soon!

PEPM started the structural engineering project in Alaska this month! The project consists of (8) structural engineering design and analysis. PEPM's structural team will provide comprehensive engineering calculations, analysis and design, and utilize engineering programs including STAAD, Ram and IDEA StatiCa and MathCAD. Extreme low temperature and thermal conditions must be considered during the engineering. The project is expected to be completed prior to the mid-year, 2024.

FROM OUR CUSTOMER This Month: "Thank you for your service on this project. Everything we have reviewed looks great and very professional. You all have made this new transition a manageable task for all of us here. When we have future needs, we will certainly have you in mind for our projects." - J. Riley, PSM Coordinator / Refrigeration Planner

PEPM Group is excited to WELCOME Jessica Mayfield to our admin team this month! Jessica has 20 years of experience in communication, administration, accounting, marketing, quality control, technical support, and management in energy and communication industries. She holds a BS in Business from the University of Arkansas and is currently enrolled in a part-time MBA program. Jessica's broad expertise is an excellent addition to the growing PEPM team which continues to support our clients' ever-expanding needs. Jessica enjoys traveling, reading, writing, and spending time with her family.

PEPM is on schedule for the first phase of an educational beef processing facility preliminary design for board approval at the month's end. PEPM has been selected as the owner engineer to provide engineering design and construction administration.

PEPM is on schedule for a multi-million capital project in South Korea. The project scope is expanding from mechanical and electrical engineering, pipe stress analysis, 3D modeling, Isometric and detail drawings to include structural engineering, modeling and detail drawings and BOMs.

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 3:

Ventilation Design Criteria

- Purpose
 - Product Quality Control
 - Heating and Cooling
 - Personal Comfort
 - Humidity Control
 - Odor Control
 - Particulate/Pollution Control (IAQ)
 - Emergency and Non-Emergency Exhaust
- Operational Conditions & Structural Envelope
- Volume of Space
- Atmospheric Conditions
- Number of Air Changes Required

Ventilation Design Considerations

- Condensation Control
- Bacteria Control
- Sick Building Syndrome (IAQ issues)
- Freezer Frost Issues
- Summer Loads
- Winter Loads

WE ARE HIRING!

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

- **Structural Engineer** with minimum of 2 to 3 years of experience.
- **Business Development Specialist** with minimum of 5 years related experience, coming soon on www.pepmgroup.com/careers.



8 GREAT COMPUTER GAMES FOR ENGINEERS THAT WILL GET YOU HOOKED

Video games are an excellent way to relax and unwind, and may be an excellent way to inspire the next generation of engineers. Strategic and role-playing games help develop problem-solving skills and scientific and mathematical thinking habits. Video games can also help to improve learning and memory and improve multi-tasking skills. Work hard and play harder with these eight great computer games:

1. **Tetris:** quick decision-making and spatial awareness
2. **SimCity:** city planning and civil engineering
3. **Space Engineers:** engineering, construction, and exploration
4. **Minecraft:** building and creating structures and tools
5. **Factorio:** infrastructure and technology
6. **The Incredible Machine:** Rube Goldberg puzzle game
7. **Besiege:** engineer large-scale or complex machines
8. **Kerbal Space Program:** physics-based rocket simulator

Original Article: 15 Great Computer Games for Engineers That Will Get You Hooked: interestingengineering.com

HAPPY
NEW YEAR

NEW YEAR
FRESH START

IN THE KNOW...

January is the first month of the Gregorian calendar, which is used in most of the world today. January is named after Janus, the Roman god of gates and doorways.

2021 Blue Origin's New Shepherd rocket successfully launched on its 14th flight from Launch Site One, Texas.

2010 Steve Jobs announced the Apple iPad, the company's most advanced piece of technology at the time.

1979 US President Jimmy Carter expressed his support for Martin Luther King's birthday to become a national holiday.

1926 The theory of Wave Mechanics by physicist Erwin Schrödinger was first taught in lectures.

1880 A patent for his electric lamp invention was given to Thomas Edison.

1789 The Power of Symphony by William Hill Brown became the first novel published in America.

1774 Captain James Cook reached a record 1,130 miles from the South Pole.

Original Article: TheFactSite: www.thefactsite.com

The HOT SPOT

January
AWARENESS DAYS



Can Generative AI Make Poultry Operations More Efficient?

Poultry producers collect a lot of data. New technology that combines the internet of things (IoT), causal analysis and...

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Cultivated Chicken Makes MIT's 'Worst Technology' List

Cultivated chicken may have gained U.S. regulatory approval in 2023, but it failed to conquer its biggest challenges when it came to price parity and...

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Construction Starts Jump 20%

Total construction starts surged 20% in December to a seasonally adjusted annual rate of \$1.12 trillion after three months of falling activity in September, October and November, according to Dodge Construction Network. Despite...

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Backlog Increases Amid Easing Credit Conditions

Construction backlog ticked up in December to 8.6 months due to improving financing availability, according to a Tuesday release from Associated Builders and...

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OSHA Switching from Hard Hats to Safety Helmets

The U.S. Department of Labor's Occupational Safety and Health Administration is replacing...

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WE WANT YOUR FEEDBACK!

بازخورد (*Persian 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 or yzhang@pepmgroup.com. *Your feedback is greatly appreciated and valued!*

REQUEST FOR 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.

- JAN 1** New Year's Day
- JAN 2** Buffet Day
- JAN 3** Drinking Straw Day
- JAN 4** Trivia Day
- JAN 5** Whipped Cream Day
- JAN 6** Technology Day
- JAN 7** Tempura Day
- JAN 8** Bubble Bath Day
- JAN 9** Static Electricity Day
- JAN 10** Cut Your Energy Costs Day
- JAN 11** Milk Day
- JAN 12** Pharmacist Day
- JAN 13** Korean American Day
- JAN 14** Dress Up Your Pet Day
- JAN 15** Hat Day
- JAN 16** Fig Newton Day
- JAN 17** Classy Day
- JAN 18** Thesaurus Day
- JAN 19** Popcorn Day
- JAN 20** Disc Jockey Day
- JAN 21** Squirrel Appreciation Day
- JAN 22** Celebration of Life Day
- JAN 23** Handwriting Day
- JAN 24** Compliment Day
- JAN 25** Opposite Day
- JAN 26** Spouses Day
- JAN 27** Fruitcake Toss Day
- JAN 28** Data Privacy Day
- JAN 29** Puzzle Day
- JAN 30** Croissant Day
- JAN 31** Backward Day



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