

ASSEMBLY REQUIRED

July 2025

THE WATER COOLER

This month, PEPM Group successfully completed site measurements and evaluations for a comprehensive plant-wide air study focused on ventilation and condensation at a food processing facility in Texas. Our team has already begun engineering calculations and detailed assessments to deliver actionable insights and optimized solutions. With over 30 air studies performed across food processing facilities, PEPM continues to support client operations by providing precise, data-driven evaluations. PEPM remains committed to optimize plant operations and maintenance through measurable and cost-effective solutions.



PEPM Group launched a new chiller project in Arkansas this month. As part of our scope, we are providing an issue for construction package that includes structural, electrical and mechanical engineering and design, along with 3D scanning and modeling to support accurate planning and execution. Our licensed Professional Engineers were on site to gather critical data, assess conditions, and evaluate existing and new tie-ins. This ensures a well-coordinated design and smooth integration with the facility's current infrastructure.

PEPM Group is excited to welcome Michael Ridolfo, PMP, MBA, as our new Senior Project Engineer. Michael has extensive experience in mechanical engineering, food processing, automation, manufacturing, and process improvement. Throughout his career, he has successfully led cross-functional teams, overseen multimillion-dollar projects, and delivered measurable operational efficiencies. We're excited to have him on board and look forward to the impact his expertise will bring to our customers. Welcome to the team, Michael!



PEPM Group is pleased to welcome Aditya Vidiyala to our growing design team as Lead Piping Designer. Aditya brings 16 years of experience in 3D modeling in plant layout, piping design, and detail engineering. He has worked on complex projects across Oil & Gas, Chemical, and Water Treatment, and has led teams while managing coordination across disciplines. We are excited for Aditya to join us, and look forward to his contributions as we continue to grow. Welcome to the team Aditya!

WE ARE HIRING!

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

- **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



MICRODROPLETS COULD CUT CHEMICAL USE IN POULTRY PROCESSING

Microdroplet cleaning technology could transform poultry processing by eliminating the need for chemical processing aids such as peracetic acid (PAA) and chlorine.

"There are different levels of enforcement and regulations around the world when it comes to disinfection during poultry processing," said Twan Koenen, Undine process expert, Innovative Water Concepts. "One of the benefits that we are after is to see how to reduce the costs of PAA usage."

The decontamination approach mixes compressed air and water into microdroplets that are applied to poultry carcasses at a high velocity between every step of poultry processing. The microscopic size of these microdroplets means that it can reach much deeper into microcavities on the bird carcass, such as skin pores or feather follicles.

Recent research from the University of Athens suggests promising test results comparing the microdroplet cleaning method against traditional PAA treatments. U.S. processors report a significant reduction of fecals found at the end of the evisceration line. Using a multi-hurdle approach, processors achieved approximately 1 to 1.5 log reduction in total bacteria count during carcass rinse testing.

Original Article: Microdroplets could cut chemical use in poultry processing: [WATTPoultry](#).

WE WANT YOUR FEEDBACK!

maikutlo (*Sesotho 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 y Zhang@pepmgroup.com. *Your feedback is greatly appreciated and valued!*

GET PROPOSAL Have questions about MEP, CSA, industrial refrigeration, process design, architectural, or project management?



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IN THE KNOW...

July, which is the seventh month in the Julian and Gregorian calendar, is named after Julius Caesar.

1992 386BSD is released by Lynne Jolitz and William Jolitz, starting the open source operating system revolution.

1969 NASA Apollo 11 lunar module carrying Neil Armstrong and Buzz Aldrin lands on the surface of the Moon. Seven hours later Armstrong becomes the first person to step on the moon.

1904 After 13 years, the 4,607-mile Trans-Siberian railway is completed.

1869 World's first oil tanker "The Charles" departs the United States for Europe carrying 7,000 barrels of oil.

1850 First public demonstration of ice made via refrigeration, by Florida physician John Gorrie.

1835 Swedish-American inventor John Ericsson files for a patent for his screw propeller design.

1832 Source of Mississippi River discovered by American geographer Henry Schoolcraft.

1799 The Rosetta Stone is found in the Egyptian village of Rosetta by French Captain Pierre-François Bouchard during Napoleon's Egyptian Campaign.

Original Article: OnThisDay.com