

# UPCOMING FEATURES

**OCTOBER | AD CLOSE: SEPTEMBER 8 | MATERIAL DUE: SEPTEMBER 11**

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### **TOPIC: PIPING** *FEATURE REPORTS*

**Summary:** Pipes are among the most critical, but sometimes overlooked, elements in the chemical process industries (CPI). This two-part Feature Report will explore two different piping-system issues. Part 1 will focus on the practical design of pipe supports and pipe stress analysis, and provide information on how proper and practical design of supports can resolve many pipe stress issues. Part 2 focuses on preventing piping leaks, with a focus on research and development facilities.

**Related equipment and services:** Pipes, tubes, fittings, expansion joints, pipe insulation, software for piping and instrumentation design (P&ID).

**Relevant industries:** All CPI sectors use piping in their processes



### **TOPIC: MAINTENANCE & RELIABILITY** *FEATURE REPORTS*

**Summary:** High-quality predictive models enable businesses to plan suitable maintenance schedules that maximize equipment's lifespan while minimizing the environmental impact, costs and downtime associated with replacing damaged units or components. Accurate and reliable simulations of equipment or component failure are a key asset; however, machines can sometimes still experience unexpected issues. In these situations, it is crucial for businesses to be as flexible as possible, readjusting their maintenance schedules and intervening quickly to restore optimum operations with minimal downtime.

**Related equipment and services:** Predictive maintenance tools; process control equipment; project management and planning tools; materials of construction; products used for preventing corrosion; and more

**Relevant industries:** Predictive maintenance is useful in all sectors of the CPI.

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## TOPIC: MOBILE DEVICES AND APPS

### NEWSFRONTS

**Summary:** Mobile phones, tablets and smart watches have become a part of many people's lives. Such devices and the special applications that are increasingly being developed are also becoming more powerful, safer and useful in production areas of the CPI. This month's Equipment Newsfront will present the latest developments in this field.

**Related equipment and services:** Mobile phones, tablets, watches, smart helmets, augmented reality, software applications and more

**Relevant industries:** All sectors of the CPI

Editorial material for consideration should be sent to senior editor Gerald Ondrey ([gondrey@chemengonline.com](mailto:gondrey@chemengonline.com))

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## TOPIC: BINS, HOPPERS & SILOS

### FACTS AT YOUR FINGERTIPS

**Summary:** This one-page reference will provide information about how vessel geometry can affect the flow of bulk solids materials in solids-handling processes.

**Related equipment and services:** Bins, hoppers, silos, feeders, gate valves, solids chutes, conveyors

**Relevant industries:** All areas involving solids-handling, including chemicals, pharmaceuticals, food, agriculture, biomass and others

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## TOPIC: SODIUM CHLORATE PRODUCTION

### TECHNOLOGY PROFILE

**Summary:** Sodium chlorate ( $\text{NaClO}_3$ ) is an inorganic salt used mainly in bleaching applications in the pulp and paper industry, and in herbicides. This one-page summary describes an industrial production process for  $\text{NaClO}_3$ .

**Related equipment and services:** Electrolysis equipment, as well as general processing equipment

**Relevant industries:** Pulp and paper, agriculture

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## FOCUS: SEALS & GASKETS

### FOCUS

**Summary:** Seals and gaskets are important for preventing leaks of hazardous chemicals, as well as preventing contamination of products while they are being made. They are also useful in reducing fugitive emissions from process equipment. This month's focus will present the latest designs, and materials used for seals and gaskets.

**Related equipment and services:** Mechanical seals, sealing and gasketing materials, flanges and more

**Relevant industries:** All sectors of the CPI use seals and gaskets

Editorial material for consideration should be sent to senior editor, Gerald Ondrey ([gondrey@chemengonline.com](mailto:gondrey@chemengonline.com))

## TOPIC: METHODS FOR TESTING STEAM TRAPS

ENGINEERING PRACTICE

**Summary:** No single test method provides the best results all of the time for the variety of steam traps used in the CPI. Therefore, all tools available in the marketplace should be implemented and used where appropriate. This article presents the three main categories of steam-trap testing tools: visual, temperature and ultrasound. The advantages and limitations of each are discussed.

**Related equipment and services:** All types of steam traps, equipment for testing steam traps, sensors, wireless communication and more

**Relevant industries:** Most sectors have steam traps operating in their plants.

## TOPIC: ENERGY CONSERVATION STRATEGIES FOR EVAPORATORS

ENGINEERING PRACTICE

**Topic:** Energy Conservation Strategies for Evaporators

**Summary:** There are several operational configurations utilized for industrial evaporation processes, and each introduces benefits and challenges. This article discusses techniques for reducing energy usage in evaporator operation, and also best practices for controlling evaporators.

**Related equipment and services:** Evaporators and ancillary equipment used in evaporation processes

**Relevant industries:** Most sectors of the CPI may use evaporators

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