

# UPCOMING FEATURES

**AUGUST | AD CLOSE: JULY 9 | MATERIAL DUE: JULY 13**

## FOCUS ON E-NEWSLETTER:

This monthly e-newsletter is sent to a targeted database determined by the subject matter of each technical report. The August e-newsletter will cover Pumps and deploy August 13.

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### **TOPIC: PRESSURE MEASUREMENT & CONTROL**

#### *FEATURE REPORTS*

**Summary:** Manufacturers of pressure-measuring instruments are adjusting to trends in the chemical process industries (CPI), and the two articles in this month's two-part Feature Report address the role of pressure measurement with regard to two "hot topics" in the CPI: concerns with handling hydrogen; and the relationship between mechanical and digital instruments. Part 1 examines the effects of hydrogen permeability and how this property can impact pressure instrumentation devices. Part 2 looks at the drivers for demand in mechanical pressure-measuring instruments in an increasingly digitalized industry.

**Related equipment and services:** All types of pressure sensors, gages and transmitters; materials of construction

**Relevant industries:** All CPI sectors are concerned with controlling and measuring pressure, including petroleum refining, petrochemicals, pharmaceuticals, food-and beverages (edible oils), mining, fertilizer and other bulk chemicals and more.



### **TOPIC: INDUSTRIAL COATINGS**

#### *FEATURE REPORTS*

**Summary:** Coatings are essential to protect critical equipment against hazardous or corrosive chemicals, and they are also instrumental in expanding the lifetime and integrity of facility infrastructure, including stairs, rails, scaffolding and more. This two-part Feature Report on industrial coatings looks at some developments to improve the sustainability of coating formulation and application, as well as a detailed look at the corrosion-protection properties of different direct-to-metal coatings variants.

**Related equipment and services:** All types of industrial coatings and paints, including water-borne, solvent-borne and direct-to-metal varieties; chemicals and additives used to prevent or inhibit corrosion; equipment used to inspect, repair or maintain coated surfaces

**Relevant industries:** Industrial coatings are used in all CPI sectors, and are particularly important in the petrochemicals and petroleum refining sectors, as well as any plant that handles corrosive or abrasive materials

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## TOPIC: SAFETY & INDUSTRIAL HOUSEKEEPING

### NEWSFRONTS

**Summary:** CPI facilities present many challenges for worker safety, which remains a high priority for all industry sectors. This Equipment Newsfront will explore trends in safety products and industrial hygiene, as well as discuss a number of new product and service offerings that are aimed at increasing safety and lowering the risk of accidents and injuries.

**Related equipment and services:** All forms of safety products and systems, including eye protection, hearing protection, gloves, helmets, boots and other personal protective equipment (PPE), as well as wearable technology (for example, for harmful gas detection or remote temperature monitoring). In addition, it includes non-wearable industrial safety products, such as non-slip flooring, spill kits and others

**Relevant industries:** All industry sectors are concerned with safety  
Editorial material for consideration should be sent to senior editor [Scott Jenkins](#)

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## TOPIC: HEAT TRANSFER

### FACTS AT YOUR FINGERTIPS

**Summary:** Slow periods in the operation of heat-transfer-fluid systems allow maintenance and mechanical integrity engineers an opportunity to perform tasks that are difficult during regular operation. These include leak repairs and other safety-related actions, preventative maintenance checks, fluid servicing and general housekeeping, among others. This one-page reference presents guidance on which maintenance functions should be addressed at times of slow heat-transfer-fluid-system operation.

**Related equipment and services:** Heat exchangers, heat-transfer fluids, maintenance tools, asset integrity systems, industrial hygiene supplies and tools, and more

**Relevant industries:** Petroleum refining, petrochemicals, chemical manufacturing, power generation, food and beverage, pulp and paper and any sector where heat exchange is used

## TOPIC: CUMENE PRODUCTION

### TECHNOLOGY PROFILE

**Summary:** The building-block chemical cumene, also known as isopropylbenzene, or 1-methylethyl benzene, is used as a chemical intermediate in the synthesis of acetone and phenol. It can also be a blending component for gasoline. This one-page summary provides information on the industrial production process for cumene.

**Related equipment and services:** All general chemical processing equipment

**Relevant industries:** Petroleum refining, petrochemicals, chemicals

## TOPIC: SOLIDS HANDLING EQUIPMENT

### FOCUS

**Summary:** Solids are used and produced in many sectors of the CPI, and therefore need to be unpacked (bag openers, lifting devices) transported (pneumatic and vacuum conveyors), discharged and stored (bins and hoppers), analyzed and measured (level measurement, particle size analyzer), and after processing, products need to be classified (classifiers and screens), packaged (packaging and bagging machines) and stored (palletizing machines) before shipment to the end user. This also includes the equipment for handling dust (air filtration, for example). This month's Focus will present some of the latest products recently introduced.

**Related equipment and services:** Bagging machines and bag opening and discharging machines, conveyors, particle size analyzers, classifiers and screen, packaging machines, lifting cranes, and more.

**Relevant industries:** Many sectors of the CPI handle solids, including petroleum refining and petrochemicals (catalyst and resin handling), mining, food (for example, powdered milk), pharmaceuticals and more

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

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