

APRIL | AD CLOSE: MARCH 8 | MATERIAL DUE: MARCH 12



Upcoming Features

VALUE ADDED

Solids Processing Special Ad Section

In almost all of the CPI, some handling of solids is needed — whether it is the raw materials, byproducts or products — and knowledge of solids-handling principles and techniques is therefore required throughout the CPI. Typical subjects that *Chemical Engineering* features in this area include monitoring solids flow and level, blending and segregation, feeding and conveying, characterizing particle size and shape, and handling of fine powders including safety and environmental considerations.

In April 2021, Chemical Engineering will publish the Solids Processing 2021 Special Ad Section. Advertisers running a display ad will receive a bonus advertorial write-up of the same size (up to 1/2 page). This is the most economical way to get your message into the hands of the CPI's critical decision-makers.

FOCUS ON E-NEWSLETTER:

The April e-newsletter will cover Solids Handling and deploy April 15.

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FEATURE REPORTS

Topic: Filtration

Summary: Filtration processes are widely used for industrial separations. A particularly important application for filtration equipment is in the removal of air pollutants, such as NO_x, SO_x and other particulate matter. Part 1 of this month's Feature Report provides details about air-pollution control using catalytic ceramic filters. Part 2 discusses troubleshooting ideas for dealing with various issues associated with filter components, including filter paper, filter leaves and so on.

Related equipment and services: All types of filters and accessories, especially ceramic filter technologies (or candle filters) used in pollution-control applications; filter elements, including leaves, filter paper and so on

Relevant industries: Filters are used in many industry sectors, and air-pollution control is especially relevant to any large industrial plant.

Topic: Expanders

Summary: Many chemical process industries (CPI) operations include gas streams that are subject to pressure reduction. In these cases, it may be possible to transform this often-wasted energy into rotational mechanical energy that can be used to drive an electrical generator or another rotating machine, using an expander. This article will describe the main types of expanders and their components, and will summarize how operations managers, consultants or energy auditors in the CPI can assess the economic and environmental benefits of a potential expander installation.

Related equipment and Services: Various types of turbo-expanders, turbines, generators, pressure devices, gas-handling equipment, variable-frequency drives, pressure valves and others

Relevant industries: Petroleum refining, air separation, refrigeration, natural gas processing, hydrogen processing, and others

NEWSFRONT

Topic: Plant Security

Summary: Recent headlines about hacking incidents show that cybersecurity remains an important issue regarding plant security. This month's Equipment Newsfront will discuss recent trends in both cyber security and physical security, with an emphasis on new products and services that are available to help keep production plants secure.

Related equipment and services: Software and hardware for cybersecurity; security equipment for plant surveillance, secure entry and so on

Relevant industries: All sectors of the CPI are concerned with plant security

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

FACTS AT YOUR FINGERTIPS

Topic: Corrosion

Summary: Bacteria, archaea and fungi can play significant roles in the corrosion of pipes, tanks and metal structures at industrial facilities. This one-page reference will review information on microbially influenced corrosion (MIC) and biofilms.

Related equipment and services: Pipes, tanks, vessels, reactors, cooling towers, steam systems, distillation columns, metal structural components, and others

Relevant industries: All industry sectors are concerned with corrosion

TECHNOLOGY PROFILE

Topic: Polyvinyl Chloride Production from VCM (Suspension Polymerization)

Summary: Polyvinyl chloride (PVC) is a versatile and widely used polymer that finds applications in piping, building siding, packaging, electric wiring, and others. This one-page process summary provides information on the suspension polymerization of PVC from vinyl chloride monomer (VCM).

Related equipment and services: Stirred-tank reactors, agitators, vessels, tanks, pumps and other process equipment.

Relevant industries: Petrochemicals, polymers, chlor-alkali, plastics

EQUIPMENT FOCUS

Topic: Analyzers

Summary: Analyzers are important tools at CPI plants. They are used for many applications, including: measuring chemical and physical properties of feedstocks and products; identifying products, byproducts and impurities during production; and determining concentrations and other variables in both production and R&D. One important use of analyzers is for quality control, for example. This month's Focus presents a number of new analyzers that have been recently introduced.

Related equipment and services: All types of analyzers, including spectroscopy (IR, NIR, UV-VIS, NMR, AA, Raman, GC, HPLC, and others); materials characterization (calorimeters, rheometers, viscometers, laser-based particle size analyzers); and more

Relevant industries: All sectors of the CPI use analyzers

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SOLIDS PROCESSING

Topic: Solids Drying

Summary: The reliability of rotary dryers depends on its proper operation and maintenance. This article outlines best practices for the operation of rotary dryers for solids drying. The objective of the best practices is to maximize the service life and reliability of rotary dryers, while maintaining product integrity in industrial solids handling.

Related equipment and services: Rotary dryers, ovens, conveyors, pneumatic conveying equipment, mixers,

cyclones and other solids-handling equipment

Relevant industries: Food, sand, stone and minerals, mining, chemicals, agriculture, biomass

APPLICATION NOTES

Topic: Mixing

Summary: This case study examines a dispersion application for high shear mixers

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