

SEPTEMBER | AD CLOSE: AUGUST 6 | MATERIAL DUE: AUGUST 10



Upcoming
Features

BONUS DISTRIBUTION

WEFTEC

94th Annual Technical Exhibition & Conference
Chicago, IL
October 16-20, 2021

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Water Management Ad Section

In addition to a Feature Report on Water and Waste Water Treatment and the WEFTEC Show Preview, *Chemical Engineering* will publish a special Water Management advertising section. Advertisers running a ½ page or larger ad will receive a bonus ½ page advertorial write-up.

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FOCUS ON E-NEWSLETTER:

The September e-newsletter will cover WATER MANAGEMENT and deploy September 9.

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TOPIC: WATER TREATMENT

FEATURE REPORTS

Summary: Management of water is often an important aspect of many chemical process industries (CPI) operations. This two-part Feature Report will explore two different aspects of water treatment: pressure sand filtration and sequencing batch reactors (SBRs). Part 1 will discuss the role of sand filtration in raw water clarification and how to troubleshoot these types of systems. In Part 2, the latest generation of SBRs will be the focus. Modern SBRs can achieve nitrification, denitrification and biological phosphorus removal in a single tank to meet the effluent standards demanded of the water industry. The article will explain how.

Related equipment and services: Water treatment equipment, such as screens, filters, chemical dosing pumps, clarifying tanks, membrane biological reactors, evaporators, centrifuges, separators

Relevant industries: Water and wastewater treatment

TOPIC: DISTILLATION

FEATURE REPORTS

Summary: In trayed distillation columns, there are many physical and mechanical factors that can impact tray efficiency. This article examines the concept of the hydraulic parameter known as tray stability, and develops the necessary equations to define the relationship between tray stability and tray efficiency using a vast collection of publicly available distillation data.

Related equipment and Services: Equipment used for distillation, including column internals and column instrumentation; simulation and modeling software

Relevant industries: Distillation is used in many CPI sectors, and is especially prevalent in petroleum refining and petrochemicals manufacturing facilities.

TOPIC: ELECTROCHEMISTRY

NEWSFRONT

Summary: There has been a lot of interest in electrochemistry recently, with many announcements regarding water electrolysis for making "green" hydrogen, and also for large batteries for storing energy. However, industrial chemistry has been a part of the CPI since the beginning, with traditional electrochemical routes for making chlorine, aluminum and other metals (electrowinning). This month's Newsfront will look at recent developments in these traditional electrochemical processes, as well as new applications, such as for water and wastewater treatment and for making organic chemicals.

Related equipment and services: Electrochemical systems, chlor-alkali plants and components for electrochemical cells (membranes, electrodes, coatings, catalysts), analyzers for temperature, pressure, gases, and electrical phenomena (current, capacity, voltage and so on).

Relevant industries: Basic chemicals, metals, organic chemistry, environmental processes

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

TOPIC: VALVES

FACTS AT YOUR FINGERTIPS

Topic: Valves

Summary: This one-page reference will review information about the specification and selection of control valves for CPI applications

Related equipment and services: Control valves of all types, transmitters, control systems, positioners, flowmeters and more

Relevant industries: Control valves are common throughout the CPI.

TOPIC: PRODUCTION OF ADIPIC ACID FROM CYCLOHEXANE

TECHNOLOGY PROFILE

Summary: Adipic acid is the most important dicarboxylic acid industrially, and is used mainly for the synthesis of nylon-6,6 polyamide. This one-page process summary describes the production steps necessary for making adipic acid from cyclohexane.

Related equipment and services: Reactors, decanter, crystallizers and other common process equipment

Relevant industries: Petrochemicals, polymers, chemicals, food

TOPIC: SOLIDS HANDLING EQUIPMENT

FOCUS

Summary: Solids account for a large percentage of the materials used and produced by the CPI. This month's focus presents the latest equipment for handling solid materials.

Related equipment and services: Conveyors, feeders, bagging machines, filters, screens, classifiers, valves, blenders, particle-size analyzers and more

Relevant industries: All sectors of the CPI handle solids.

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

TOPIC: WEFTEC

SHOW PREVIEW

Summary: Products and services presented at the upcoming Weftec event will be reviewed. Focusing on water quality, Weftec features both a conference and exhibition and is taking place October 16–20 in Chicago, Ill.

Related equipment and services: Water-related products and services, such as filters, membranes, bioreactors, water analysis, pumps, flowmeters and more

Relevant industries: Water treatment is important in all CPI facilities

MARKETING RESOURCES

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