

JANUARY | AD CLOSE: DECEMBER 6 | MATERIAL DUE: DECEMBER 9



UPCOMING FEATURES



FOCUS ON E-NEWSLETTER:

The January e-newsletter will cover PETROLEUM REFINING & PETROCHEMICALS and deploy January 13.

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TOPIC: HEALTH, SAFETY AND ENVIRONMENTAL CONSIDERATIONS DURING PROCESS SYNTHESIS

FEATURE REPORTS

Summary: Process synthesis is the creation of a process that will make a product that meets quality specifications and business and economic requirements. During process synthesis, engineers make decisions that determine the inherent health, safety, and environmental (HSE) risk level of a process. This article proposes a simple approach for identifying and assessing the major HSE hazards during synthesis that can be used while process options are being investigated. This makes it easier for the engineer to consider inherently safer designs (ISD) options early on and effectively lower process risk.

Related equipment and services: Software and tools used for process design and simulation; hazard and risk analysis; and project management and scheduling

Relevant industries: All sectors of the chemical process industries (CPI) may involve process synthesis

TOPIC: DATA UTILIZATION

FEATURE REPORTS

Summary: Every part of an organization is making decisions daily, based on data they collect, process, analyze and review. The rise of Industry 4.0 technologies has further driven this trend, and with more and more data available, organizations are struggling to reap the benefits of this data. At the same time, the industry acknowledges that poor engineering information can have significant impacts, but little research has been done to quantify this. In this data-overloaded environment, companies are struggling to define where and how to start. This article highlights data utilization tips to move organizations along on the quest to transform their datasets into decision-making assets.

Related equipment and services: Software and sensors used for collecting and analyzing process data

Relevant industries: Data utilization is important in all CPI sectors

TOPIC: 2021 KIRKPATRICK CHEMICAL ENGINEERING ACHIEVEMENT AWARD

NEWSFRONT

Summary: This month's Newsfront presents the process innovations that received the winning and honor awards for the prestigious Kirkpatrick Award, which has been honoring chemical engineering achievements since 1933.

Related equipment and services: Catalysts, process technology, turbines and expanders, water treatment and more

Relevant industries: Petroleum refining, energy recovery, water treatment, packaging materials and more

TOPIC: PACKAGING

FACTS AT YOUR FINGERTIPS

Summary: Every product manufactured in the CPI requires some form of packaging, from products produced for further processing, like plastic resins, bulk chemicals, solvents and so on, to finished products, such as pharmaceuticals, paints and coatings and other chemical products. There are many considerations in packaging processes, from material properties to machinery characteristics, which can be dictated by a product's end use.

Related equipment and services: Packaging, bottling, pelletizing and filling machines; bags, intermediate bulk containers (IBCs), bagging and pallet machines; fork lifts, cranes and other handling machinery; special plastics designed for packaging applications; and more.

Relevant industries: All CPI sectors will involve some sort of packaging operations, especially pharmaceutical manufacturing.

TOPIC: VALVES

FOCUS

Summary: Valves are possibly the most common type of process equipment, ranging in complexity from manual on/off units to smart control valves. This month's Focus presents the latest products entering the market.

Related equipment and services: All types of valves, actuators, positioners and so on.

Relevant industries: All CPI sectors use valves

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

TOPIC: WHY STEAM QUALITY IS IMPORTANT

ENGINEERING PRACTICE

Summary: Low steam quality affects steam system operations in many ways. Steam quality should be one of the main measurable points in creating a product in all manufacturing facilities. All heat-transfer components base performance calculations on 100% steam quality, unless special arrangements have been made. Unfortunately, steam quality is typically not monitored closely and is often assumed to be 100%. Therefore, issues that arise from poor steam quality are blamed on some other item in the system. This article provides guidance in pinpointing steam quality issues and reliably measuring steam quality.

Related equipment and services: All types of steam-system components, including valves, heat exchangers and piping; measurement devices, such as calorimeters

Relevant industries: Steam is used in all sectors of the CPI

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