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FOCUS ON E-NEWSLETTER:

This monthly e-newsletter is sent to a targeted database determined by the subject matter of each technical report. This month's e-newsletter will cover **Flow Measurement & Control** and deploy **August 15**.

2019 MEDIA KIT

TOPIC: MIXING FEATURE REPORTS

Summary: This two-part feature report will dive into evaluating and quantifying liquid mixing in stirred tanks, and ingenious uses for specialty mixers.

Various forms of mixing are used to produce many kinds of products in all sorts of industries. Each application has some unique features, but the underlying fundamentals of fluid motion to create uniformity are common to nearly all these situations. In industrial practice, many processes that involve mixing do not even have a chemical reaction. The practicing engineer may have little relevant background in mixing fundamentals.

Part one of this feature report puts the basic concepts of liquid mixing design and evaluation in a form that can be applied by process engineers faced with mixing problems or necessary improvements.

Part two discusses creative uses for specialty mixing equipment which, depending on the application, could prove to be effective and lower cost alternatives to high pressure homogenizers, media mills, conventional batch reactors, granulators or tray drying ovens.

Related equipment and services: All types and configurations of mixers for both liquids and solids, including impellers, motors, mills, stirred tank configurations, baffles and more

Relevant industries: Mixing is an essential part of most processes in the chemical process industries

TOPIC: GAS PURIFICATION

FEATURE REPORTS

Summary: Whether removing unwanted contaminants from a gas stream, or separating different components of a gas mixture, gas purification plays an important role in many chemical process industries (CPI) operations. Part 1 of this Feature Report will present a set of practical considerations for purifying industrial gases. Part 2 discusses purifying and upgrading biogas for use in renewable energy applications.

Related equipment: All gas-handling equipment, including compressors, tanks, pressure vessels, valves, as well as purification systems, such as pressure-swing adsorption, membranes, thermal oxidizers, activated carbon, gas-phase filters, gas adsorption systems and more

Relevant industries: All CPI sectors could have an interest in gas purification, including industrial gases, petroleum refining, petrochemicals, pharmaceuticals, chemicals and others

TOPIC: DUST CONTROL

SOLIDS PROCESSING

Summary: Solids handling processes commonly generate dust, which carries health and safety risks, as well as possibly presenting processing challenges. One method to reduce dust production is through agglomeration processes, which produce spherical, granular products. This article discusses the benefits of pelletizing processes, along with how these types of processes operate.

Related equipment: All solids-handling equipment, including hoppers, bins, conveyors, chutes, bulk-bag emptying systems, as well as agglomeration systems, such as tumble-growth agglomerators, disc-pelletizers, pin mixers, rotary dryers and more

Relevant industries: All CPI operations that handle solids, including chemicals, agricultural fertilizers, cosmetics, pharmaceuticals and more

TOPIC: HEAT-TRANSFER

FACTS AT YOUR FINGERTIPS

Summary: This one-page reference discusses the selection of heat-transfer-fluid vendors, and what plant managers and operators should expect from their fluid supplier.

Related equipment: All equipment related to heat-transfer systems, including heat-transfer fluids, heat exchangers, pumps, burners and others

Relevant industries: Many CPI processes involve heat exchange

TOPIC: TITANIUM DIOXIDE PRODUCTION

TECHNOLOGY PROFILE

Summary: Titanium dioxide is widely used as a white pigment in paints, coatings, cosmetics, pharmaceuticals and others, as well as a blocker of ultraviolet radiation in sunscreens. This one-page summary outlines the production process for titanium dioxide.

Related equipment: Solids-handling equipment

Relevant industries: Chemicals, paints, coatings, pharmaceuticals, cosmetics, and others

TOPIC: HYDROGEN

NEWSFRONT

Summary: Although hydrogen is important in itself as a feedstock, for making cleaner fuels and for many applications in the metals industry, hydrogen also has a large energy content, making it a very clean-burning fuel. This Newsfront article presents some of the progress being made in some countries towards a hydrogen-based economy.

Related equipment: Pressure regulators, pressure vessels, gas turbines, fuel cells, gas detectors, catalysts, hydrogen storage materials, and so on

Relevant industries: Industrial gas, petroleum refining, renewable energy

Editorial material for consideration should be sent to contributing editor [Paul Grad](#)

TOPIC: VALVES

NEWSFRONT

Summary: Valves can be found in just about every part of a CPI plant. This month's Equipment Newsfront presents the latest technology and product innovations for making valves more reliable and smarter.

Related equipment: All types of valves

Relevant industries: All sectors of the CPI use valves

Editorial material for consideration should be sent to contributing editor [Joy LePree](#)

TOPIC: PIPES, TUBES AND FITTINGS

FOCUS

Summary: Pipes and tubes connect together all the different types of equipment at a process plant, enabling feedstocks to be fed to reactors and product to be filled into bottles or containers. They also play a major role in keeping reactor conditions at the correct temperature, passing heat transfer fluids and cooling water to where it is needed. This month's focus presents the latest products and services entering the market.

Related equipment: Piping systems, materials of construction, flanges bolt, wrenches, welders, tubing, seals and gaskets, and so on

Relevant industries: Pipes, tubes and fittings are used in all sectors of the CPI, from biotech and pharmaceuticals to oil-and-gas production and petroleum refining

Editorial material for consideration should be sent to contributing editor [Suzanne Shelley](#)

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