

JULY | AD CLOSE: JUNE 6 | MATERIAL DUE: JUNE 10

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 **Solids Handling and deploy July 18.**

● 2019 MEDIA KIT IS NOW AVAILABLE ●

SIGNET ADSTUDY®

View the Study [here](#).

TOPIC: THE TECHNICAL WORKFORCE FEATURE REPORTS

Summary: Changes in professional resources and the economic climate are leading to a shortage of technical knowledge for technology-based companies. This technical talent shortage can affect company performance, and cause companies to be less competitive. The reasons causing the change are varied, but include the retirement of technical specialists, changed goals among young professionals, the shifting of work overseas and the lack of systems to capture historical “lessons learned”. While there is no ironclad means to overcome the technical talent shortage, there are steps that can be taken to improve the situation. This article provides different sides of the issue, and presents various alternatives that companies can pursue as a remedy.

Related equipment and services: Knowledge management systems; systems that train or re-train employees

Relevant industries: Workforce issues exist throughout the chemical process industries

TOPIC: PACKAGING AND TRANSPORT OF HAZARDOUS MATERIALS FEATURE REPORTS

Summary: This two-part report addresses selection, handling and recommendations for intermediate bulk containers (IBCs). IBCs are large containers for the transport of chemical products. The choice of a suitable IBC must include consideration of the properties of the material to be conveyed as well as the regulations that apply to the handling of large packages. Parts 1 and 2 of this feature report complement each other by addressing these considerations and

giving practical information about the properties of IBCs, packaging standards and symbols, recyclability, best practices for filling and emptying, storage and transportation, as well as recent market developments and innovations.
Related equipment and services: Logistics, packaging (IBCs), labeling, barcode technology, container cleaners, and so on

Relevant industries: Many sectors of the CPI use IBCs for transporting feedstocks and other chemicals into the production site, as well as transporting products from production to the end user

TOPIC: METHANE REFORMING

NEWSFRONTS

Topic: Methane Reforming

Summary: With the availability of abundant and inexpensive "natural" gas, steam methane reforming continues to play an increasing role for the production of hydrogen and synthesis gas (syngas). Nevertheless, conventional steam methane reforming is energy intensive, and generates significant amounts of carbon dioxide. This month's Newsfront presents the latest developments in catalysts, reactor design and processes for reforming methane more efficiently.

Related equipment and services: Process technology, catalysts, gas-cleaning technology, CO₂ scrubbing, heat exchangers, and more

Relevant industries: Industrial gases, petroleum refining, hydrogen production, ammonia production, fertilizers, methanol production, Fischer-Tropsch liquids and waxes

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

TOPIC: TEMPERATURE MEASUREMENT AND CONTROL

NEWSFRONTS

Summary: Temperature is one of the most important process parameters that needs to be measured and controlled. This month's Equipment Newsfront will present the latest technology trends for measuring temperature, including smart sensors and self calibration.

Related equipment and services: All types of temperature sensors, transmitters logging devices and so on

Relevant industries: All sectors of the CPI use temperature devices

Editorial material for consideration should be sent to contributing editor Joy LePree (jlepree@chemengonline.com).

TOPIC: COOLING TOWER WATER CHEMISTRY

ENGINEERING PRACTICE

Summary: Cooling towers are a critical component of many industrial facilities. Due to the very nature of tower-based cooling systems, where evaporation causes the makeup water constituents to "cycle up" in concentration, chemistry control can be quite challenging. These challenges became particularly acute following the elimination of chromate treatment in the 1970s. The popular replacement program, whose core chemistry is based on inorganic and organic

phosphates, proved to be much more complex than chromate. Now, with phosphorus discharge to receiving bodies of water being restricted, or banned, in many cases, further evolution is underway, with movement towards treatment programs that do not contain phosphate, zinc, or chromate. This article examines the evolution in cooling water treatment.

Related equipment and services: Water treatment chemicals including corrosion inhibitors; Instrumentation including for measuring pH, conductivity, corrosion, biofouling, tank levels and more related to cooling towers and water treatment

Relevant industries: Many CPI companies use cooling towers and need to maintain their water systems

TOPIC: PARTICLE-SIZE ANALYSIS

SOLIDS PROCESSING

Summary: The behavior of particulate material is highly dependent on the geometric properties of the solid, such as particle size, shape and particle-size distribution. Particle-size measurement is among the most neglected areas in chemical engineering, even though it is an important factor in the vast majority of unit operations involving particulate matter. This article provides information on different representations of particle size and on different methods for calculating average particle-size and particle-size distribution.

Related equipment and services: Particle-size analysis instruments, particle sampling devices, and other solids-related characterization tools, such as shear-cell testers and particle imaging instruments, as well as solids handling equipment, including pneumatic conveying systems, bins, silos, hoppers, chutes

Relevant industries: All CPI sectors where solid materials are handled, including, chemicals, specialty chemicals, food, pharmaceuticals, mining, plastics and others

TOPIC: EPICHLOROHYDRIN PRODUCTION FROM PROPYLENE

TECHNOLOGY PROFILE

Summary: Epichlorohydrin (also known as 1-chloro-2,3-epoxypropane) is most commonly used in the production of epoxy resins for coatings, adhesives and plastics. This one-page summary outlines a production process for epichlorohydrin from propylene.

Related equipment and services: All chemical manufacturing equipment, including pumps, valves, seals, reactors, mixers, pressure vessels, analyzers and more

Relevant industries: Chemicals, specialty chemicals, petrochemicals, plastics and others

TOPIC: CATALYSTS

Facts At Your Fingertips

Summary: Many important industrial reactions would not be possible without well-designed heterogeneous catalysts. This one-page reference will provide information about the fundamental chemical and physical phenomena that must occur within an industrial reactor to generate products in a catalyzed process.

Related equipment and services: Catalysts, reactors, heat exchangers, analyzers, other process equipment

TOPIC: PUMPS

Focus

Pumps are arguably the most common piece of process equipment found in virtually all CPI facilities. There is a wide range of different types and ever-improved versions becoming available for moving fluids throughout the plant. This month's Focus presents some of the new pumps launched on the market.

Related equipment and services: All types of pumps, pump-monitoring systems, and more

Relevant industries: All sectors of the CPI use pumps.

Editorial material for consideration should be sent to contributing editor Suzanne Shelley (sshelley@chemengonline.com).

MARKETING RESOURCES

2019 EDITORIAL CALENDAR

2019 MEDIA KIT

EMEDIA TRENDS

EMEDIA SURVEY DATA

BPA STATEMENT

EDITORIAL SUBMISSIONS

B2B MARKETING NEWS

- [7 Tips For Better Direct Mail](#)
- [Better B2B Email – 10 Quick Tips](#)
- [Are You Up On Dynamic Content Optimization?](#)

FOR ADVERTISING OPPORTUNITIES, PLEASE CONTACT YOUR CHEMICAL ENGINEERING SALES REPRESENTATIVE

TERRY DAVIS

tdavis@chemengonline.com

Tel: 404-634-5123

ALABAMA, CONNECTICUT, DELAWARE, FLORIDA, GEORGIA, IDAHO, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, MISSISSIPPI, MONTANA, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH AND

JASON BULLOCK

jbullock@chemengonline.com

Tel: 713-974-0911

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, ILLINOIS, INDIANA, IOWA, KANSAS, LOUISIANA, MICHIGAN, MINNESOTA, MISSOURI, NEBRAS- KA, NEVADA,

DIANE BURLESON

dburleson@chemengonline.com

Tel: 713-444-9939

PRODUCT SHOWCASE, LITERATURE REVIEWS, CLASSIFIEDS, BUYERS' GUIDE & CHEMPLOY

SOUTH CAROLINA, NORTH AND SOUTH DAKOTA, OHIO, OREGON, PENNSYLVANIA, RHODE ISLAND, TENNESSEE, VERMONT, VIRGINIA, WASHINGTON D.C., WEST VIRGINIA, WYOMING, CANADA, LATIN AMERICA

NEW MEXICO, OKLAHOMA, TEXAS, UTAH, WASHINGTON, WISCONSIN

PETRA TRAUTES

ptroutes@accessintel.com

Tel: 49-69-58604760

EUROPEAN SALES MANAGER AUSTRIA, BENELUX, CZECH REPUBLIC, EASTERN EUROPE, GERMANY, SCANDINAVIA, SWITZERLAND, UNITED KINGDOM

FERRUCCIO SILVERA

ferruccio@silvera.it

Tel: 39-02-284-6716

Mediterranean & Middle East Sales Representative ANDORRA, FRANCE, GIBRALTAR, GREECE, ISRAEL, ITALY, PORTUGAL, SPAIN

DIPALI DHAR

ddhar@chemengonline.com

Tel: 718-263-1162

India Sales Representative

KATSUHIRO ISHII

amskatsu@dream.com

Tel: 81-3-5691-3335

Japan Sales Representative

RUDY TENG

rudy.teng@gmail.com

Tel: +86 13818181202

(China), +886 921322428 (Taiwan)
Asia Sales Representative ASIA-PACIFIC, HONG KONG, PEOPLE'S REPUBLIC OF CHINA, TAIWAN

PETER KWON

peterhkwon@hanmail.net

Tel: +82 10 8223 2876

South Korea Sales Representative

JULY | AD CLOSE: JUNE 6 | MATERIAL DUE: JUNE 10



[View in web browser](#)

This message was sent to jmcphail@accessintel.com

To ensure delivery to your inbox, [add us to your address book](#).

Chemical Engineering • Access Intelligence LLC • 9211 Corporate Blvd., 4th Floor, Rockville, MD 20850 | [Privacy Policy](#)
[Update My Preferences](#) | [Unsubscribe](#)