

UPCOMING FEATURES

MAY | AD CLOSE: APRIL 6 | MATERIAL DUE: APRIL 10

Bonus Distribution

Downstream 2020 Exhibition & Conference
(June 10-11, 2020, Houston Texas)

Value Added

[US Gulf Coast Special Ad Section](#)

Two of the largest CPI sectors are the Refining & Petrochemical markets have been starting to see positive growth. With capital spending expected to increase in 2020, Chemical Engineering is offering a very targeted Hydrocarbon Processing Industry issue with extensive coverage of this highly profitable market.

In May, *Chemical Engineering* will publish a special Gulf Coast Refining & Petrochemicals advertising section. Advertisers running a ½ page or larger ad will receive a bonus ½ page advertorial write-up. This is the most economical way to get your message into the hands of the CPIs critical decision-makers.

FOCUS ON E-NEWSLETTER:

This monthly e-newsletter is sent to a targeted database determined by the subject matter of each technical report. The May e-newsletter will cover **Petroleum Refining & Petrochemicals** and deploy May 14.

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TOPIC: STEAM HANDLING

FEATURE REPORTS

Summary: Plant steam is the major source of heat for most chemical and refining processes, yet it often receives little attention. This month's two-part Feature Report focuses on two major concepts related to steam handling: ensuring high-quality saturated steam; and testing steam traps for proper operation. Part 1 provides practical tips on steam quality to help engineers understand the profound effects that steam — and specifically its degree of saturation— have on plant operations and efficiency. Part 2 provides an overview of the current tools available on the market for testing steam traps, and provides examples of situations when certain types of tools are best applied.

Related equipment and services: Boilers, turbines, ejectors, waste-heat recovery systems, steam traps, steam-trap testing instruments (visual, temperature, ultrasound) and more

Relevant industries: All sectors of the CPI generate and use steam.

TOPIC: COMBUSTION AND BURNERS

FEATURE REPORTS

Summary: Burners and combustion are important aspects to many processes in the CPI requiring process heat and steam. This two-part Feature Report will explore two aspects of combustion processes. Part 1 will describe several low-cost techniques for reducing NOx emissions to meet environmental requirements. Part 2 will discuss improving safety in the operation of burner valve trains.

Related equipment and services: All types of burners and related combustion equipment, gas sensors, air-pollution control systems and others

Relevant industries: Much of the CPI requires combustion for some aspect of process heating.

TOPIC: PETROLEUM REFINING

NEWSFRONTS

Summary: Recent developments surrounding a drop in crude oil prices and economic turmoil related to the COVID-19 pandemic are upending markets for refined products. This Newsfront will take a look at the anticipated fallout from these recent developments and include comments on the future of petroleum refining sector.

Related equipment and services: Most chemical processing equipment, including distillation towers, internals and auxiliaries, heat exchangers, pumps, valves, control equipment, reactors, catalysts and more

Relevant industries: Petroleum refining, petrochemicals, oil & gas

Editorial material for consideration should be sent to senior editor Scott Jenkins (sjenkins@chemengonline.com)

TOPIC: WEARABLE DEVICES

NEWSFRONT

Summary: Today's and future CPI engineers are wearing more than just the standard hardhats, gloves, goggles, coveralls and work shoes. Electronic gadgets developed for the consumer industry are being developed for use in hazardous zones, so smart watches, multifunctional communication and video systems on helmets and goggle, and sensors built into the fabric of clothing are becoming more prevalent in the CPI to help protect workers from hazardous emissions and fumes as well as making their presence in the production site safer. This month's Newsfront will discuss these new trends.

Related equipment and services: Smart watches, helmets, goggles, textiles, sensors, gas detectors, personal protection equipment and so on

Relevant industries: All sectors of the CPI

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

TOPIC: CRYSTALLIZATION

FACTS AT YOUR FINGERTIPS

Summary: An important aspect of industrial crystallization processes is the nucleation step. This one-page reference will provide refresher information on the nucleation phenomenon and its impact on the crystallization process.

Related equipment and services: All types of crystallizers, including draft-tube baffle crystallizers, forced-circulation crystallizers, direct-contact refrigeration crystallizers and others, as well as evaporators, cooling systems, analyzers, filtration systems, solids handling equipment and more

Relevant industries: Chemicals, agricultural chemicals, pharmaceuticals, specialty chemicals

TOPIC: VINYL CHLORIDE PRODUCTION FROM ETHYLENE AND CHLORINE TECHNOLOGY PROFILE

Summary: Vinyl chloride is the monomer used to produce the polymer material polyvinyl chloride (PVC). PVC is commonly used for making pipes, wire coatings and other materials. This one-page process summary will describe the production process for vinyl chloride from ethylene and chlorine starting materials.

Related equipment and services: All chemical processing equipment would be relevant

Relevant industries: Petrochemicals, polymers

TOPIC: MAINTENANCE TOOLS FOCUS

Summary: Although there are many new advances in maintenance due to digitalization and Industry 4.0, basic tools are still needed throughout the plant to actually perform the maintenance tasks. This month's Focus presents the latest tools that have recently been introduced.

Related equipment and services: All types of hand tools (wrenches, torque wrenches, screw drivers and so on), power tools (drills, welding, and so on) as well as computerized maintenance software, sensors and related IIoT tools

Relevant industries: All sectors of the CPI have equipment that must undergo routine maintenance

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

TOPIC: INDUSTRY MENTORS YOU & YOUR JOB

Summary: Mentors provide critical support and guidance to students pursuing an engineering education, and complement coursework aimed at readying a new engineer for the workforce. Mentorships can be provided by faculty, peers or industry volunteers. This article provides perspectives by both a longtime industry mentor and a student being mentored.

Related equipment and services: All workforce-related services, including training and human resources departments

Relevant industries: All segments of the chemical process industries have an interest in keeping a vital workforce of new engineers who have an understanding of the industries' needs

MARKETING RESOURCES

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tdavis@chemengonline.com

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JASON BULLOCK

jbullock@chemengonline.com

Tel: 713-974-0911

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DIANE BURLESON

dburleson@chemengonline.com

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PETRA TRAUTES

ptrautes@accessintel.com

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Japan Sales Representative

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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

peterkwon@hanmail.net

Tel: +82 10 8223 2876

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