

TRAINING

FCCU Process Fundamentals and Recent Developments

The FCCU is no longer just a fuels producer but is producing petrochemical feedstocks, pretreating tar sands and producing biofuels. The FCC can change operations from the production of large volumes of gasoline blending components (up to 70 volume percent of the pool), to the production of large volumes of diesel blending components (up to 40 volume percent of the pool). The FCCU also produces approximately 110 barrels of product for every 100 barrels of feed. With this range of demonstrated flexibility and volume expansion, the FCCU is one of the most valuable process units in the refinery.

You will learn

Increase awareness of process fundamentals and operating principles for a broader understanding of the various FCC, RFCC and High Olefin FCC (HOFCC) unit process design differences, operating flexibilities and potential equipment revamp opportunities for more operating mode flexibility and future process development.

Introduction to the FCCU

Process Flow

FCCU Process Differences

Key Equipment

- FCCU Cracking Reactions and Chemistry
- Catalyst Components and Function

Pressure Balance

- Heat Balance Effects
- Feed Properties and Operating Variables
- Understanding E-Cat Analyses and Catalyst Testing
- Fluidization Issues

Future FCCU Technology Development and Operation

- High Olefin FCCU
- FCCU & Petrochemical Integration
- New FCCU Processes

Who should attend

Unit operators and supervisors, refinery plant engineers, technical service and process engineers both experienced and new to the FCC.

FCC equipment and process licensors, and service providers who want a better understanding of the FCC process can also benefit.

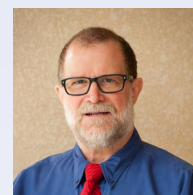
Prerequisites

An understanding of refining processes and petroleum refinery terminology is expected, having some experience with the FCC unit is helpful.

Moody Gardens Convention Center

May 7-8, 2018

Training starts at 8:00am and finishes at 5:00pm both days. The program includes catered lunch and breaks. Attendees also receive a training manual that can serve as a valuable office reference. Dress code is casual.



Christopher F. Dean

Christopher F. Dean has over 35 years in the refining business. His emphasis has been on high severity Fluid Catalytic Cracking operations with petrochemical integration. Before forming the consulting service firm High Olefins FCC Technology Services LLC, he spent fifteen years as a Research and Process Engineering Consultant with Saudi Aramco.

He initiated research and commercialization studies in catalytic naphtha cracking utilizing the HS-FCC downer reactor technology. In addition he was active in the development of the PetroRabigh integrated refinery and petrochemical joint venture complex and with the future Ras Tanura Refinery expansions and joint venture.

He has published over 30 papers and articles and has been issued two patents on FCC gasoline desulfurization with three other FCC pending process patents.

Training Pass

Includes catered lunch and breaks.

FCCU Process Fund. and Recent Developments (May 7-8)

Early

Before 3/26

\$1,495

Regular

After 3/26

\$1,595

Join us for the rest of RefComm®!

Now in its 18th year RefComm® is recognized as the premiere worldwide conference for Delayed Coking. RefComm® also includes Fluid Catalytic Cracking and Sulfur Recovery (covering Amine Treating, Sour Water Stripping, Claus Plant and Tailgas). When coping with Tier 3 regulations and leveraging existing assets with automation and the Industrial Internet of Things (IIoT), staff knowledge is easily overlooked. With operational excellence in mind, RefComm® caters to the operators in your units. The week starts with 2 days of training, followed by the technical conference and 100 exhibit booths with the latest technologies. Send your crews. Get them better equipped to run efficiently and safely with **More Production and Less Risk!**

Conference and Exhibition

Refiner Price:

| | Early Before 3/26 | Regular After 3/26 |
|--------------------------------------|----------------------|-----------------------|
| Cat Cracking, Sulfur Pass (May 8-10) | \$930 | \$1,040 |
| Coking Pass (May 8-11) | \$1,050 | \$1,170 |

Vendor Price:

| | | |
|--|---------|---------|
| Coking, Cat Cracking, Sulfur Pass (May 8-11) | \$1,050 | \$1,170 |
|--|---------|---------|

Please indicate your areas of interest: DCU FCCU SRU Other

Conference pass includes catered breakfast, lunch, breaks, and cocktail receptions.

Registrant Info and Payment

| | | | | | |
|---------------------|--------------------------------|--|-------------------------------------|---|-------------------------------|
| Prefix | First Name | Last Name | | | |
| Job Title | | Company | | | |
| Mailing address | | City | | | |
| State/Province | Postal code | Country | | | |
| Contact email | | Contact phone | | | |
| Signature | | Date | | | |
| Payment amount | <input type="checkbox"/> Check | <input type="checkbox"/> Wire Transfer | <input type="checkbox"/> Mastercard | <input type="checkbox"/> American Express | <input type="checkbox"/> Visa |
| Name on credit card | | Card expiration date | | | |
| Credit card number | | Security code | | | |

Payment is due prior to the start of the training. Training fees will be charged to your credit card at the time of registration unless other arrangements have been made. Make checks payable to "Coking.com Inc."

Refund Policy

Fees are fully refundable until April 16, 2018 (three weeks before the event), after which a \$200 USD fee will be charged for cancellations. Registering for this training course prior to April 16, 2018, will help maximize the probability that the course will proceed as planned. Cancellations after April 30, 2018 (1 week before class until 24 hours before class) are charged a 50% fee. All other cancellations and no-shows are non-refundable. Substitutions are allowed. Submit all cancellations and transfers in writing, by email or by fax.

REFCOMM
GALVESTON 2018

Registration Form

Early registration ends
March 26

Send this page to:

fax +1 (360) 544-0126
email RefComm@RefiningCommunity.com
mail Coking.com Inc
520 Fieldston Rd.
Bellingham, WA 98225
USA

Or register online at

www.regonline.com/RefCommG18

Prices are in US Dollars

Checklist

Register early to benefit from scheduled advertising and promotions.

Send a separate form for each person or register online at your convenience.

Make checks payable to "Coking.com Inc."

Reserve your lodging at RefiningCommunity.com/refcomm-galveston-2018/hotel-galveston-2018

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Need more information?

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