TRAINING

FCCU Process Fundamentals and Recent Developments

REFCOMM SPAIN 2018

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.

1-2 Oct. 2018

Training starts at 0900 and finishes at 1730 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	Before 20/8	After 20/8
Includes catered lunch and breaks.		
FCCU Process Fund. and Recent Developments (1-2 Oct. 2018)	☐ $1,495	☐ $1,595

Register before 20 Aug. 2018 to benefit from early discounts.

REFCOMM SPAIN 2018

Registration Form

Early registration ends
20 Aug. 2018

Conference Pass Options

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

	Early Before 20/8	Regular After 20/8
Refiner Pass (Tue-Thu, 2-4 October 2018)	☐ $1,090	☐ $1,290
Vendor Pass (Tue-Thu, 2-4 October 2018)	☐ $1,480	☐ $1,580

Conference Schedule

	1-Monday	2nd-Tuesday	3rd-Wednesday	4th-Thursday	5th-Friday
0900-1730	Training	Training	Conference & Exhibition	Conference & Exhibition	Training
1730-1830		Reception & Exhibition	Reception & Exhibition		

Please indicate your area of interest in a percentage equaling 100%. For example DCU 70% SRU 30%

DCU _____ SRU _____ FCCU _____

Registrant Info and Payment

Prefix _____ First Name _____ Last Name _____

Job Title _____ Company _____

Mailing address _____ City _____

State/Province _____ Postal code _____ Country _____

Registrant's email _____ Registrant's phone _____

Signature _____ Date _____

Payment amount _____ ☐ Check ☐ Wire Transfer ☐ Mastercard ☐ American Express ☐ Visa

Name on credit card _____ Card expiration date _____

Credit card number _____ Security code _____

Payment is due prior to the start of the conference or training. Fees will be charged to your credit card at the time of registration unless other arrangements have been made. Make checks payable to "Refining Community".

Refund Policy

Fees are fully refundable until 10 September 2018 (three weeks before the event), after which a $200 USD fee will be charged for cancellations. Registering for this training course prior to 10 September 2018 will help maximize the probability that the course will proceed as planned. Cancellations after 24 September 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.

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Or register online at

Regonline.com/RefCommSpain

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."

Bank Transfer
Please contact Marlea Stockenberg
marlea@coking.com