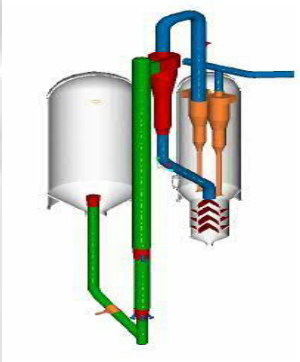


Two (2) Day FCC SEMINAR

MAY 7 –8, 2019



Presented by:

Reza Sadeghbeigi

of

RMS Engineering, Inc.

**Crown Plaza Wilmington North
Claymont, Delaware**

Join us in Wilmington Delaware as we Celebrate **RMS' 24th Year** of Providing First Class FCC Expertise and Know-How to the Refining Industry, World-Wide

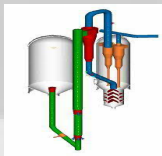
A Real Learning Experience – Unlike Any Other

“An excellent training resource for those desire to truly understand catalytic cracking and acquiring meaningful know-how for improved FCC operations”

Without a doubt, RMS offers the **best possible value** for your FCC learning experience. Our fee for this class is by far the least costly when compared to similar training courses, which are sometimes as much as 5 times our cost. This is an excellent value-added with the course being taught by one of the industry's leading experts - RMS' founder and President, Reza Sadeghbeigi (also see the enclosed special offer for the 3rd Edition of Reza's FCC Handbook)

The subjects provided in this course are geared towards providing “practical fundamentals” of the fluid catalytic cracking process, as well as offering proven tools for troubleshooting many “common occurring” operational and mechanical problems, including a review of issues often faced during unit start-up.

RMS Engineering, Inc. (RMS) seminars provide a “transfer of experience” to the participants in the form of practical knowledge. These courses enable the participant to return to the workplace with knowledge and skills that can be applied with confidence. This will be the 32nd public FCC seminar presented by RMS Engineering, with over 2,000 **SATISFIED** participants.

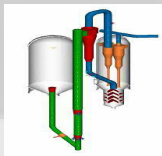


RMS Engineering, Inc.
 5959 West Loop South, Suite 625
 Bellaire, Texas 77401
 Phone: 281-333-5900
 Email: judy@rmsfcc.com

FCC Principles, Troubleshooting
2 Days– May 7 – 8, 2019

This program provides a comprehensive overview of the cat cracking process. This very practical course will provide an excellent learning platform from which anyone associated with FCC operations (regardless of experience), will greatly benefit. This class will present proven tools for effective troubleshooting of commonly occurring problems, as well as addressing some of the known frequent start-up issues.

FROM	TO	DAY 1	Day 2
8 AM	10 AM	<ul style="list-style-type: none"> FCC Process Overview Basic Process Control/Instrumentation Role of Catalyst & Additives Impacts of Feedstock Quality 	<ul style="list-style-type: none"> .Unit Monitoring Tools Sanity Checking Operating & Lab Data Understanding “Normal” Vs. Abnormal Values
10:15 AM	12 PM	<ul style="list-style-type: none"> Understanding Converter Heat Balance Effects of Operating Parameters on Unit Operations 	<ul style="list-style-type: none"> Equipment Design for Highest Reliability No to “Low Cost” Improvement Projects
12:00 PM	12:30 PM	Lunch	Lunch
12:30 PM	1:30 PM	Function of key equipment	Troubleshooting – Part 1. Catalyst Circulation, Catalyst Loss, Fouling/Coking
1:40 PM	3:00 PM	Catalyst Fluidization & Circulation	Troubleshooting – Part 2 & Start-Up Tips
3:15 PM	4:30 PM	Main Fractionator & Overhead System	Other Issues/Topics



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FCC Handbook – 3rd Edition

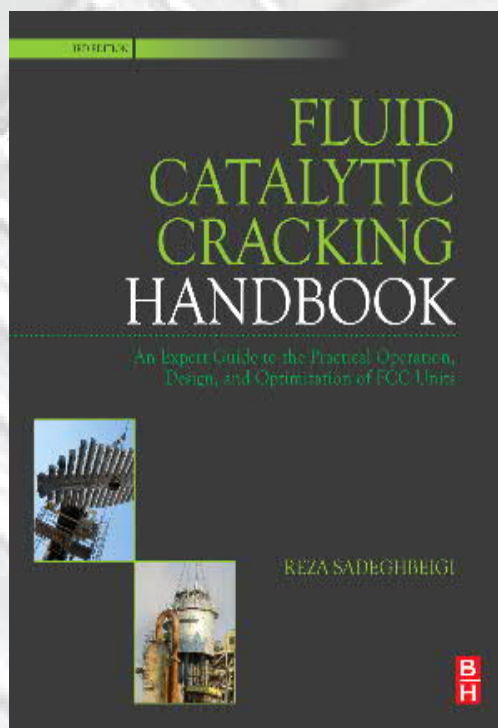
How to Get Your Copy

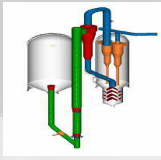
EXCLUSIVE OFFER FOR REGISTERED PARTICIPANTS ONLY!

Each registered/paid participant is eligible to receive an autographed copy of the newly released 3rd Edition of the "***Fluid Catalytic Cracking Handbook- An Expert Guide to the Practical Operation, Design, and Optimization of FCC Units,***" by **Reza Sadeghbeigi**, at a discount offered only to registered seminar participants.

The FCC handbook has completely been re-worked, rejuvenated, and updated to address many of the issues being faced in today's FCC/RFCC practices.

We are making this private offer to you at a 25% discount (you will pay only \$155, where actual retail is \$190). Just indicate that you would like to purchase the book when enrolling. Both the course notebook as well as this "FCC handbook" will serve as valuable reference tools for many years to come. They contain techniques, procedures, and tips that can be put to immediate use.





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RMS' 32^{2nd} FCC Seminar Information

To Register:	Email: judy@rmsfcc.com	RMS Engineering, Inc.
	Phone: (281) 333-0464	5959 West Loop South #625
	Fax: (281) 333-0119	Bellaire, Texas 77401

Seminar Fee..... \$1,300 (Days 1 and 2)

To reserve your discounted copy of the new FCC handbook, please add \$155 to the total of your course selections

Payment: Check or Money Order payable to RMS Engineering, Inc. or

Credit Cards: Please provide credit card information on the following page. (MasterCard, Visa, Amex, Discover, Diners Club)

Early Bird Discount: We are offering a **10% discount** from your enrollment fees if you register **before March 7, 2019**

Seminar Location: Crown Plaza Wilmington North
609 Naamans Rd
Claymont, DE 19703
Phone: 302-792-2700

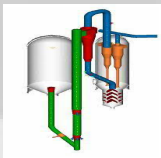
Seminar Schedule: The seminar sessions are held from 8:00 AM to 4:30:00PM each day.

Cancellations: If you cancel in writing more than one week prior to the start date of the seminar, a 10% *Service Fee* will be charged. Registered delegates who do not attend or cancel one week or less prior to the start date are liable for the entire *Seminar Fee*.

Substitutions: Substitutions can be made at any time prior to the seminar start date. Please call us immediately to correct the seminar registration record.

Registration Ends: **April 26, 2019**

RMS' Guarantee: We guarantee the quality of our seminars completely. If for any reason you are dissatisfied, RMS will offer a full refund of the seminar fee.



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RMS REGISTRATION FORM

(FOR ADDITIONAL REGISTRANTS, PLEASE DUPLICATE THIS FORM)

- May 7 – 8, 2019** **\$1,300 per person**
 FCC Principles and Troubleshooting
- 10% Early Bird Registration (before March 7, 2019)**
 Tuition Only
- 3rd Edition of FCC Handbook** **\$155 per book**
 Offer limited to one (1) copy per participant
 **issued at time of seminar. Advance copy: a \$10 shipping/handling charge will be added.

Participant Name:	
Position/Title:	
Company:	
Address:	
City, State, Zip Code:	
Phone: ()	Email:
How long have you worked in the FCC area?	

CREDIT CARD AUTHORIZATION FORM	
Name on Credit Card:	
Name of Participant: (if different)	
Company Name:	
Billing Address:	
City, State, Zip Code:	
Phone: ()	Fax: ()
Credit Card Type (i.e., Amex, MasterCard, Visa, Discover):	
Credit Card Number:	3 – 4 Digit CID/CW2 Code:
Cardholder Signature:	Credit Card Expiration Date:

With the signature provided above, cardholder authorizes payment for the 2019 seminars to RMS Engineering, Inc. If participant cancels, in writing, one week in advance of the seminar, a 10% service fee of the total amount, will be assessed. If participant cancels less than one week, or fails to attend, the full registration fee will be assessed.

REGISTRATION RECEIVED ON _____