



The Lamar University Center for Distance Education in conjunction with the Golden Triangle Industries/Lamar University Engineering Partnership invites you to attend a 2-day seminar. Please forward this information to any colleagues you feel might be interested in the program.

Norman P. Lieberman **“Process Troubleshooting”**

April 30 – May 1, 2013
Tuesday – Wednesday, 7:00 am – 5:00 pm
Spindletop Gladys City Boomtown
5550 University Drive / Beaumont, TX

This two day course features a mixture of technical knowledge in process plant equipment & operation that is taught by using real life examples and experiences learned by the speaker. Human interaction and gathering of first hand field data is one of the key principles taught by this course.

Program Schedule:

7:00am - Registration
7:15am – Breakfast buffet
12:00pm – Lunch Buffet
8am to 5pm - Seminar

Tuesday, April 30th - Heat Transfer

- Thermosyphon Reboilers
- Kettle and Forced Circulation Reboilers
- How Reboiler Problems Cause Tower Flooding
- Shell and Tube Heat Exchangers
- Condensers
- Air Fin-Fan Coolers
- Surface Condensers
- Vacuum Systems
- Natural Draft Fired Heaters
- Troubleshooting Air Preheaters
- Coke Formation in Heater Tubes

Wednesday, May 1st – Rotating Equipment

- Operation of Centrifugal Pumps
- Optimum Impeller Size
- Motor Drives – Amp Loading
- Troubleshooting Reduced NPSH
- Steam Turbines – Use of Hand Valves
- Surface Condensers
- Centrifugal Compressors
- Surge and How to Prevent It
- Rotor fouling
- Vacuum Pumps

Who Should Attend?

New and experienced process plant engineers, operations supervisors, and experienced plant operators will benefit from this course

Limited Seating of 30. Maximum of 4 people per Partnership Member may enroll until April 1st after which time any number may enroll until class of 30 is filled.

Cost: \$500 for Partnership members (Last day to register is April 19, 2013)

\$1500 for non-members –After April 19th if space available

- includes breakfast and lunch for 2 days
- Distance Education Certificate for 16 contact hours

Register online
LAMAR UNIVERSITY- CENTER FOR DISTANCE EDUCATION
<http://dept.lamar.edu/cde/gti>

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