



AICHE Orange County

NEWSLETTER OF THE ORANGE COUNTY SECTION, AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

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March 2007

Orange County Meeting MARCH DINNER MEETING

Pipeline-Grade Crude from Pigging Waste in Prudhoe Bay, Alaska

Dominic Meo III, P.E.

**Tuesday, March 27, 2007
6:00 PM**

We are very pleased to report that the program for our March meeting will cover the following topics:

- 1) BP response to Trans Alaska Pipeline leak
- 2) Oil waste from pipeline pigging to facilitate inspection
- 3) Treatment of waste by Eveready Industrial Services to make good crude
- 4) Pictures of the work and results of analytical

Dominic Meo III, P.E. will provide a detailed report on his recent project in Prudhoe Bay, Alaska. BP is one of the major oil producers on the North Slope in Alaska. The crude oil from thousands of BP production wells is collected in gathering pipelines that convey the oil to Pump Station One, which is the start of the Trans Alaska Pipeline. In March of 2006, BP discovered a leak in one of their gathering pipelines, and the spill made the front page of newspapers all over the world.

In response to the spill, BP started a program to pig all of their pipelines and inspect them for corrosion, which investigators believe caused the spill. The waste generated by these pigging operations was conveyed through a new pipeline constructed specifically for this purpose to Tank 110 at Pump Station One. Eveready Industrial Services of Edmonton, Alberta was hired to treat the waste oil in this tank and convert it to pipeline-grade crude oil that could be pumped through the Trans Alaska Pipeline to Valdez.

Mr. Meo will provide an inside look at the equipment used by Eveready and how well it worked in treating the waste oil. He will present lots of photographs of the equipment and the work site. In addition, he will provide the results of analytical testing by Alyeska on the recovered oil. This will be your chance to obtain an inside look at a major oil-recovery operation on the North Slope without leaving Orange County.

Mr. Meo is the President of the Orange County Section of the American Institute of Chemical Engineers. He is a Principal Engineer for Meo & Associates, which specializes in environmental compliance, health and safety training and environmentally-friendly dredging. He holds a Bachelors and Masters Degree in Chemical Engineering and is a Professional Engineer in California, Arizona and Massachusetts. In addition, he is a Board Certified Environmental Engineer and is a member of the American Academy of Environmental Engineers.

Meeting Schedule:

5:30 p.m.	Social Hour
6:30 p.m.	Dinner
7:20 p.m.	Break
7:30 p.m.	After-Dinner Program

Place: Wyndham Garden Hotel, Costa Mesa

Directions: From Interstate 405, go north on Bristol Ave., right on Anton, left on Avenue of the Arts. The Wyndham is on the right at 3350 Avenue of the Arts, Costa Mesa.

Reservations: Please make a reservation at (714) 686-2791 by voice by Friday, **March 23, 2007**. Or, you may email your reservation to dalebotts@yahoo.com

Cost: Members, \$20 with a reservation, \$25 at the door; Non-Members, \$25 with reservation, \$30 at the door; Students **Free** with reservation, \$5 at the door, Unemployed/Retired, \$5 with reservation, and \$10 at the door.



Starting with the month of January 2007, every third meeting a member attends is FREE with reservation

STUDENT CORNER

Please contact the newsletter editor if you would like to publish any AIChE student chapter meeting summary or contribute any articles related to science/engineering.

Professional Engineering Employment Update

Process Specialist - Simulation

Location: Carson Refinery
Business: BP West Coast Products
America, LLC
Division/Asset: Carson Business Unit
Department: Optimization
Level: H - G
Supervisor: Project Development Team
Leader
Responsibility for: none

Roles and Responsibilities

- Coaches, mentors and supports Optimization Engineers in the use of process simulation tools and techniques. Provides guidance on building, developing and using simulation models and on interpretation of results.
 - Supports unit engineers in developing simulations to identify and relieve process bottlenecks and validating subsequent performance improvement in operating units.
 - Supports the Projects Development Team in using simulation tools to optimize and provide assurance for proposed changes in refinery configuration consistent with strategic goals for growth.
- Works closely with the Refinery Technology (RT) group in the development the Refinery Wide model including calibration and ongoing maintenance of the Model. The person in this role will interface with RT and will also support the refinery lead process engineers to ensure their input is incorporated into the model.
- Works with RT and Carson commercial Group to develop, implement, and maintain a Refinery Optimization Tool (ROT).
- Supports lead process engineers in

development and maintenance of process models utilizing HYSIS and other rigorous models in use or in development at Carson including; Catsim, Hycrack, Platforming, gas oil hydrotreating, distillate hydrotreating and coking.

- Actively participates in Simulation Community of Practice (CoP) including ad hoc participation in peer reviews and peer assists as required.
- Promotes and shares best practice in application of simulation tools for equipment performance monitoring, optimisation and debottlenecking.
- Responsible for building and maintaining the more complex process simulation models.
- Undertakes complex process studies requiring advanced simulation skills.
- Liases with Aspentech and third party suppliers on simulation development issues.
- Responsible for ensuring that their own knowledge is captured effectively and transferred to and from others as appropriate.
- Support the other Optimization engineers in delivery of team objectives and accountabilities.

Core Competencies

- Performance Bias
- Business Awareness
- Partnership and Teamwork
- Wise Decisions
- Innovation
- Leading People

With specific emphasis on:

- Business Awareness
- Performance Bias / Partnership and Teamwork

Technical Competencies

- Numerate with advanced IT skills.
- Advanced skill level in process simulation.
- Advanced skill level in process monitoring tools.
- Good understanding of major refinery processes.
- Well developed process engineering skills.

Demonstrated competency as defined by the Refining Professional Excellence competency map for Levels H - G.

Leadership competencies

Awareness of First Level Leader model and potential to develop Level 5 Leader competencies.

Qualifications and Experience

Minimum of 8 years experience in process engineering and/or operations essential.



Minimum of 5 years process simulation experience with strong emphasis on practical application in a business environment.

Commercial experience is an advantage.

Air Quality Engineers

Karel & Company is looking for Air Quality engineers to join their client's established offices in Texas. Candidates should have a min. of 5 years of experience, and good working knowledge with; TCEQ regulations, CAA, Title III & V. Experience with the petrochemical, refining or in the energy, power and utilities industries with permitting and regulatory work would be preferred. Good management and mentoring skills would be helpful. These are solid growth positions, and candidates should be able to grow into senior managerial positions. Addition positions available in: CA, CO, FL, GA, IL, NY, MA, and Canada, please contact:

Stephen A. Karel, Pres. /CEO
Karel & Company / Executive Search
20 Rice's Lane - Westport, CT 06880
203 - 341 - 9911
www.karelco.com

- ① If you have an employment opportunity in Southern California for a chemical engineer, the newsletter will advertise it for free.

Newsletter Contributors Wanted

The newsletter editor would like to hear from you if you have one or more brief articles to contribute, especially a review or brief discussion of a good website, technical book, etc.

Upcoming Meeting AIChE April Meeting (LA-OC)

Dr. Jim Beckman from Arizona State University will be the speaker for the April 24, 2007 LA-OC joint meeting in Long Beach. He will be speaking about Dewvaporation highlighted in the Chemical Engineering Progress. Dewvaporation is a new atmospheric pressure thermal approach to desalination and water reclamation. The following topics will be covered: 1) Desalination and Water Reclamation, 2) Zero Liquid Discharge Applications and 3) Energy Efficiency Improvements.

2007 Orange County AIChE Officers

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Program Committee Member	(Position Vacant)

ANNOUNCEMENT

AIChE Orange County Section Webmaster Needed

Cheryl Zheng is stepping down as the AIChE Orange County Web Master. This is a great opportunity for someone who would like to run a web site. Please contact any of the Section officers if you are interested in this position. The entire website is currently in Microsoft FrontPage.

Skills: website design and HTML programming capability.

Time: Depending on the person's skills, probably around half an hour per month.

Cheryl can provide some training as necessary to set it up for the new person.



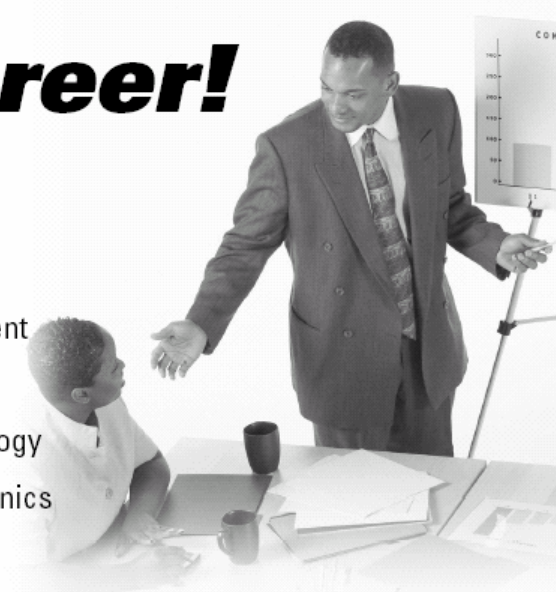
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