Texas Industrial Energy Management Forum

From Plant Basics to the Global Perspective
October 6, 2005
Park Plaza Reliant Center Hotel
8686 Kirby Drive
Houston Texas 77054

Program, 4:00 to 6:00 pm

STS-AIChe Welcome

Moderator

Dennis Griffith, Granherne-KBR

Presentations

Texas Petrochemicals Energy Strategy: Back to Basics
Sean Diamond, Manufacturing Optimization Manager, Texas Petrochemicals

This presentation will explore the operations strategy, from an energy perspective, that helped turn around Texas Petrochemicals and bring them out of bankruptcy. The discussion will focus on the energy management program, the "back to basics" approach and the more unique projects that have reduced energy consumption at TPC.

BASF’s Energy Survey Methodology
Thomas R. Theising, Manager, Energy Systems, BASF Corporation

BASF Corporation operates several dozen manufacturing sites within NAFTA and periodically conducts energy surveys at each site. Although these manufacturing sites represent a variety of products, BASF has found success in a common approach of identifying savings opportunities. A minimum amount of time is required for these “quick look” type of survey which lead to an average of greater than 10% energy savings on an annual basis.

Case Studies on Using Simulation to Maximize Energy Savings
David Schowalter, Ph.D., Lead Consulting Engineer, Fluent Inc.

He will cover three case studies using Computational Fluid Dynamics (CFD) to improve performance: 1) Improving the distribution of water spray injectors for
quenching the effluent from a waste heat exchanger;  2) Optimizing the flue gas flow profile through the convection section of a multi-cell reformer furnace; and 3) Implementing ultra low-NOx burners in an ethylene cracking furnace.

**Personal Perspective on US and Global Energy**
Hugh Guthrie, Senior Advisor, National Energy Technology Lab, US DOE

Hugh Guthrie will share his perspective on US and Global Energy, based on his six decades in the energy sector, in senior leadership positions in both industry and government. Hugh will present a discussion of where we have been, where we are, and where we might be with respect to energy. He’ll discuss the key factors that influenced the past and present, and how they will play into the future of energy.

**Questions & Answers**

**Networking**, 6:00 to 7:00 pm

**Registration.** There is no cost for attending the Energy Forum; however, please pre-register for it on the Texas IOF website by clicking on [http://clearinghouse.ces.utexas.edu/tiof/2005temforum.asp](http://clearinghouse.ces.utexas.edu/tiof/2005temforum.asp) so we can provide adequate facilities.

**STS-AIChe Dinner.** Following the Networking event, you are invited to attend the South Texas Section’s dinner meeting. Hugh Guthrie will be the dinner speaker addressing the topic “Chemical Engineering: Past, Present and Future”. Register on the STS-AIChe website at [http://www.sts-aiche.org/](http://www.sts-aiche.org/)

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