



The South Texan

2003 Marx Isaacs Award for Outstanding Large Section Newsletter

VOLUME 105 NUMBER 2

October 2004

MONTHLY MEETING • OCTOBER 7, 2004



Topic: LNG Feeding US Pipelines

Speaker: Samuel K. Wiley, PE
President
Wiley and Associates

Tight supplies and increased prices for natural gas have created a boom in LNG projects to supplement US produced natural gas. Gas from sites in the Middle East, Asia, and the African coast are condensed into LNG for shipment, and then re-vaporized for use in US markets. Sites along the Gulf Coast from Mobile to Brownsville are being developed for both onshore and offshore vaporization facilities. Several sites have been approved, most notably the Sembra Energy- Cameron site and the Chevron Texaco offshore terminal. Numerous other applications are in the permit process.

Indirect heating is used to provide the heat of vaporization to produce pipeline gas. The simplest method uses either air or water to exchange heat into the product. Seawater can be pumped over the coils to provide the heat for vaporization, however permitting can be difficult because of the impact on sea life. Air can also be used.

Often heat is supplied by submerged combustion vaporizers (SCVs). Fuel is fired into a water bath, which houses the coils for heating the LNG. Submerged combustion actually exhausts the flue gases into the bath and maintains the bath water temperature for vaporization. SCVs can be used regardless of the surrounding air or water temperatures, so production is unaffected by ambient conditions, winter or summer. SCVs must be permitted similar to process heaters or boilers, so CO, NO_x, and, other flue gas emissions impact the plant design. More recent technology includes Ultralow NO_x burners to meet the most stringent air standards, such as those in Southeast Texas.

Sam Wiley has been involved in the design and supply of air pollution control equipment for the last 35 years, including thermal oxidizers, flares, Low NO_x burners. He is president and owner of Wiley and Associates, located in Houston. He recently presented a paper at the National AIChE meeting in New Orleans on HRVOC emission control.

Sam earned his BS in ChE from the University of Texas at Austin, and an MBA from the University of Houston. After several years with Monsanto Company in Texas City, he joined John Zink Company and held numerous positions at Zink including Vice President of the burner division, and VP Sales and Marketing. He was President of McGill Environmental in Tulsa, before starting his own business in 1970.

Meeting Location Park Place at Reliant Park

*formerly Radisson Astrodome
(Kirby at South Loop)*

WORKSHOP (NO FEES - NO RSVP)..... 5:30-6:30 p.m.
SOCIAL PERIOD 6:00-7:00 p.m.
DINNER 7:00-7:45 p.m.
PRICE . \$22.00 with reservation • \$24.00 without reservation
..... Students and Unemployed 1/2 price
MEETING/ SPEAKER 7:45-8:45 p.m.

AUTO - R.S.V.P. By 4:00 p.m., Tuesday, October 5, 2004
Either call (713) 295 -4847 or
Make reservation using the STS web site: www.sts-aiCHE.org

Workshop Announcements

Refer to page 3 of the newsletter for detailed workshop topic and speaker information.

CAST	Topic: Practical Thermodynamics for Process Simulation: Where to Start
	Speaker: David Hill, Chemstations
PSM & ENVIRO.	Topic: Quantifying Project Risks - and their impact on schedules and costs
	Speaker: Dr. Gus Cammaert, DNV
PEPO	Topic: Installation of Electrical Equipment in Hazardous Areas, what a Chemical Engineer needs to know...
	Speaker: Bob Johnson

How to Stay in Touch with South Texas Section While Migrating to a Paperless South Texan Newsletter

Mandatory Notification of STS for the Mailed Newsletter. To continue to receive after this issue you must actively notify us.

(1) Mail notice to STS-AIChE; P.O. Box 710773; Houston, TX 77271-0773

(2) Phone to Freeman Self at 713-235-3055 or Matt Kolodney 713-767-3752

(3) Subscription on-line in the South Texan box at <http://www.sts-aiCHE.org>. Fee for Mailed Newsletter printing and mailing cost after December 2004. Website: <http://www.sts-aiCHE.org>

Newsletter Access:

1) Snail Mail to all registered STS members - one week before meeting +/- one week.

2) Website at sts-aiCHE.org - click on Newsletter or Newsletter Archives, accessible mid-month before meeting.

3) E-Mail - enroll at the Topica prompt at the bottom of the STS home page - includes URL to current Newsletter, accessible mid-month before meeting.

Workshops and Dinner Meeting Topics, Speakers, Synopses, and Bios:

1) About a week after meeting, speakers and topics appear on the website home page for the next month's meeting. Navigation keys home on detailed synopses and bios for each workshop or dinner meeting presentation.