

The South Texan

2003 Marx Isaacs Award for Outstanding Large Section Newsletter



Special Notes

- Location: Brady's Landing
- Single workshop 4-6 PM
- Networking 6-7 PM
- Dinner 7 PM
- Speaker 8 PM

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Monthly Meeting March 1, 2007

Location: Brady's Landing

Advanced Process Control

Speaker: Wayne Patterson, Mustang Engineering

Abstract: The presentation will create an awareness of the issues around estimating and delivering cash benefits from the application of APC technology.

The talk covers how multivariable predictive model-based control generates economic benefit, typically with less than a 6 month return on investment, guidelines on how to estimate benefits, and a brief look at the recent control technology developments from Dr. Charles Cutler at Cutler Technology Corporation. Advanced Process Control is used in the energy and chemicals industries to reject the impact of disturbances, hold tighter to true process limitations, and generate hundreds of millions of dollars each year from existing concrete and steel investments.

Bio: Wayne Patterson works for Mustang Engineering in the Advanced Process Control (APC) consulting practice in Houston, Texas. Prior to joining Mustang, Wayne worked for 20 years in APC consulting for Setpoint, DMCC, Biles, and Aspen-Tech, working in refining and petrochemicals applications, implementing state-of-the-art control systems on four continents. During this time, custom advanced regulatory control schemes yielded the limelight to standardized multivariable control software systems, DCS systems proliferated, slide-rules yielded to hand-held calculators and computers have become ubiquitous.

Wayne graduated from the University of Arkansas and started his career in 1979 at Eastman Kodak in Longview, Texas, as a process engineer. This was followed by work at CBI/Howe-Baker in Tyler designing synthesis gas plants, and then a move to Corpus Christi where Wayne worked in the process engineering and process control groups at the olefins plant then known as CCPC.



March Workshop—begins at 4:00 PM

Patent Practice For Engineers and Scientists

By Murray Nadler, Patent Attorney

This special 2-hour workshop will cover:

- How to use the patent law system to build and protect intellectual property
- How to work effectively and efficiently with patent attorneys

Murray Nadler is a Member of the Texas Bar and the U.S. Patent Bar and is a former Senior Engineering Associate for Exxon Chemical Technology. He is also a member of AIChE. Mr. Nadler works as a solo practitioner doing patent drafting and prosecution. In addition, Mr. Nadler does consulting work on strategic planning for intellectual property management. He works primarily in the chemical, petrochemical, and power generation industries.

Mr. Nadler was the dinner speaker for the January meeting of the STS.

Attendees of the March workshop may receive 2 CE hours. Track your hours!

Date	Tentative Location	Tentative Speaker
April 13	Deadline for Awards Nomination Forms submission	
April 22-27	Hilton Americas (Downtown)	National Meeting Ship Channel Tour
April 30-May 3	Reliant Center	2007 Offshore Technology Conference
May 3	Sheraton Brookhollow	Awards Night

South Texas Section Changes

There are two changes for the South Texas Section to mention.

First, our **mailing address** has been changed. The new snail-mail address is:

South Texas Section AIChE

P.O. Box 1741

Deer Park, TX 77536-1741

Please submit all future correspondence to this new address. Thank you!

Second, our **newsletter advertising** will now be handled by **Frank Kleinschrodt**, President of IRP Tech. Frank takes over the advertising responsibilities from Alan Rossiter. Alan is taking on other responsibilities within the South Texas Section. Many thanks to Alan for his excellent job, always keeping this newsletter full of interesting and colorful advertisements, and keeping the Newsletter Editor happy!

We welcome Frank to the Newsletter Crew. He has been a fixture at many South Texas Section activities. To contact Frank about advertising, call (713) 807-8510 or email Frank.Kleinschrodt@IRPTech.com.

Main South Texas Section site: <http://sts-aiche.org>

Vital Links

National AIChE website: <http://www.aiche.org/> (Needs Flash Plug-in)

Earn CEP credits at AIChE functions: http://www.sts-aiche.org/Texas_PE_CEP_Rule.html

Download the CEP log form: http://www.sts-aiche.org/STS-AIChE_CEP_Log.xls

Previous Newsletters (PDF format): <http://sts-aiche.org/newsletterArchives.htm>

Link to THIS newsletter: <http://sts-aiche.org/newsletter/news2007/news0307.pdf>

April Preview

The South Texas Section is hosting the AIChE Spring National Meeting to be held at the Hilton Americas downtown, April 22-27. There will be **no STS meeting in April** and workshops will not be held. There will, however, be a multitude of events at the National Meeting for local members to participate in. Our annual **Ship Channel Tour** will take place that week. There is a limit to the number of attendees, as always, and the Tour will be open to those attending the National Meeting. If you are interested in going, be sure to book early.

The April South Texan will be a **Spring National Meeting Preview Issue**. The April newsletter will be issued around April 9, 2007. The newsletter will contain a review of all activities sponsored by the South Texas Section, with links to meeting registration and other National site information.

The National Meeting is open to all persons, with a discount for National AIChE members only. Details about and registration for the National Meeting may be found at <http://www.aiche.org/Conferences/SpringMeeting/index.aspx>.

Events planned include a Welcome Reception; plant tours to KBR Tech Center, an Ethylene Plant, and NASA; evening events of a Wine Bar, Dinner/Comedy Show, and the Ship Channel Tour.

Volunteer Session Counters are needed for the National Spring Meeting. Per diem costs such as parking/lunch are reimbursed; volunteering does not include meeting registration. Details will be presented in the April newsletter. Stay tuned!



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Chemical Engineer Profile

Introducing Former AIChE President Calvin Cobb

One of the great things about being a member of the South Texas Section is that we are at the heart of the chemical and petrochemical industry, and consequently we have many great chemical engineers among us. One of these is former AIChE President Calvin Cobb. We asked him to share a little about himself. First, here is Calvin's résumé...

Dr. Cobb is President of Calvin Cobb & Co., a management consulting firm he established in 2005. Prior to that he was Vice President and General Manager of Invensys Process Systems and established and led the firm's Global Hydrocarbons consulting business from 2003 until his retirement in 2005. He also established the Centre for Hydrocarbons Business Innovation, an industry-wide center working on the Oilfield of the Future, Refinery of the Future, and Chemical Plant of the Future.

Dr. Cobb began his career with Monsanto where he served in engineering and software development and marketing roles. He began his long consulting career by joining The Pace Company Consultants & Engineers in 1974. He joined Wright Killen as president in 1982, and he engineered the company's sale to Ernst & Young in 1996. He became a Partner of Ernst & Young and led various practices for the firm including North American energy and chemicals. With the sale of Ernst and Young's consulting business to Cap Gemini in 2000, Dr. Cobb became a consulting partner and vice president of the new firm, Cap Gemini Ernst & Young. He joined Invensys in early 2003 to form a new consulting business for the company.

He received Bachelor of Science, Master of Science, and Doctor of Philosophy degrees in chemical engineering for the University of Missouri-Rolla in 1964, 1965, and 1967. Dr. Cobb was awarded the Professional Degree of Chemical Engineer in 1986 by his alma mater in recognition of his outstanding accomplishments in the field and the 1995 Alumni Achievement Award. In 2001, he received a Doctor of Engineering Honoris Causa degree and was the university's commencement speaker. Dr. Cobb is active in the American Institute of Chemical Engineers and was the 2001 President of the organization. He is also a member of the National Petrochemical & Refiners Association and the American Petroleum Institute.

We asked Calvin to tell us more about his involvement with AIChE. **First, how did you get started?**

I began in the 1960s as treasurer of the St. Louis section then did some work on the audit committee of the South Texas Section when I first moved to Houston. My first national activity was as a director of Fuel & Petrochemicals Division where I eventually became chair. I chaired the Government Relations Committee and was on that group for about 10 years. I was chair of the Long Range Planning Committee in the 1990s then became a Director of AIChE in the late 1990s. I served as President in 2001.

What were the highlights of your term as President?

Looking back, I am proud that we launched the Genesis team during my term as President, recognizing that we needed to change AIChE significantly as we moved forward. Our new activities in biotechnology and sustainability were a result of that effort. I was also proud to be on the team that selected John Sofranko as our executive director. John has done an outstanding job in a very difficult time for the Institute.

What are you doing with AIChE now?

Currently I chair our Institute for Sustainability where we are making strides to add AIChE leadership to this emerging field that most people see as very important in the future not only of chemical engineering but society as a whole.

Thanks for sharing your insights, Calvin!



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2006 Annual Awards Nomination Form (Page 1 of 2)

Last Chance! Use this form to nominate a member for the Outstanding Young Professional Award, Distinguished Service Award, or the Best Fundamental or Applied Paper Award. Print out this page, complete it, and mail to one of the addresses shown. Submissions should be sent via email.

South Texas Section – AIChE 2006 Annual Awards Nomination Form

THIS NOMINATION FORM MUST BE RECEIVED BY APRIL 13, 2007 TO BE ACCEPTED!

E-mail the completed form to:

Thomas E. Menn
P. O. Box 458
Pearland, Texas 77588-0548

281-485-3719

ThomasMenn@SBCGlobal.net

or
Chen Ramachandran, Ph.D.
CRI U.S. LP
Westhollow Technology Center
3333 Highway 6 South
Houston, Texas 77082
281 - 544 - 7589
281 - 544 - 7817 (Fax)

chen.ramachandran@shell.com

Once the nomination is submitted, you will receive an email from the STS Awards Committee confirming receipt of the nomination.

NOTE: ONLY ONE PERSON OR PAPER MAY BE NOMINATED PER FORM!

NOMINATOR'S NAME: _____

ADDRESS: STREET: _____

CITY: _____ STATE: _____ ZIP CODE: _____

TELEPHONE NUMBER: (____) _____

EMAIL ADDRESS: _____

I wish to nominate _____
(Enter Name of Nominee or Title of Paper on the above line.)

ENTER CONTACT INFORMATION FOR NOMINEE OR AUTHOR:

NOMINEE or AUTHOR'S NAME: _____

ADDRESS: STREET: _____

CITY: _____ STATE: _____ ZIP CODE: _____

TELEPHONE NUMBER: (____) _____

EMAIL ADDRESS: _____

TYPE OF NOMINATION: (PLEASE CHECK ONLY ONE SPACE BELOW.)

_____ 2006 STS Outstanding Young Professional Award (Under age 35)*

_____ 2006 STS Distinguished Service Award (Over age 35)*

_____ 2006 STS Best Fundamental Paper Award (*Please complete page 2*)

_____ 2006 STS Best Applied Paper Award (*Please complete Page 2*)

*For STS Outstanding Young Member or Distinguished Service Awards, please provide a supporting document stating the reason you feel that this person is deserving of this award. E-mail the completed form and recommendation to one of the addresses above.

Page 2 of the Nomination Form may be found on Page 6 of this newsletter.

2006 Annual Awards Nomination Form (Page 2 of 2)

Please enter the name of the Best Paper again: _____
(Sorry to trouble you but this is in case the sheets get separated.)

Enter the contact Author's name again: _____
(Sorry to trouble you but this is in case the sheets get separated.)

FOR BEST PAPER NOMINATIONS, LIST THE NAMES OF THE AUTHORS AND CHECK ALL BLANKS THAT APPLY:

		MEMBERSHIP	
		AICHE	STS
Note: At least one author must be an STS Member.			
Co-Author #1:	_____	_____	_____
Co-Author #2:	_____	_____	_____
Co-Author #3:	_____	_____	_____
Co-Author #4:	_____	_____	_____
Co-Author #5:	_____	_____	_____
Co-Author #6:	_____	_____	_____
Co-Author #7:	_____	_____	_____
Co-Author #8:	_____	_____	_____

[Add additional authors on an attached sheet if necessary.]

For Best Paper nominations, please provide following information:

NAME OF PUBLICATION: _____

DATE OF PUBLICATION: _____

VOLUME NO. (if known): _____ PAGES: _____ to _____

PLEASE ATTACH AN ELECTRONIC VERSION (*.PDF) OF THE PUBLISHED ARTICLE.

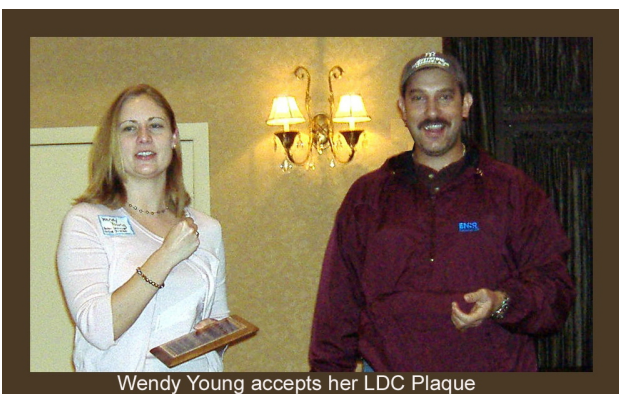
Once the nomination is submitted, you will receive an email from the STS Awards Committee confirming receipt of the nomination.

Applications of Heterogeneous Catalysis course: Rescheduled for May

A five-day short course "Applications of Heterogeneous Catalysis" will be given by the Department of Chemical and Biomolecular Engineering at the University of Houston on May 14-18, 2007. The course is designed to match the needs of industrial chemists and chemical engineers engaged in the practice of heterogeneous catalysis, either as beginners or individuals who are experienced in certain areas but wish to acquire an overview of the field. Although research methodology is included. The emphasis is on applications. The course has been given fifty-eight times in Houston since 1971, fifteen times at various locations in Europe, and adapted many times for in-house courses at major companies. Many companies routinely send their personnel to us for training, a fact that testifies to the success of the course.

For more information and registration material, contact Prof. James T. Richardson at jtr@uh.edu.

Thanks to Leadership Development Conference (LDC) Committee Members

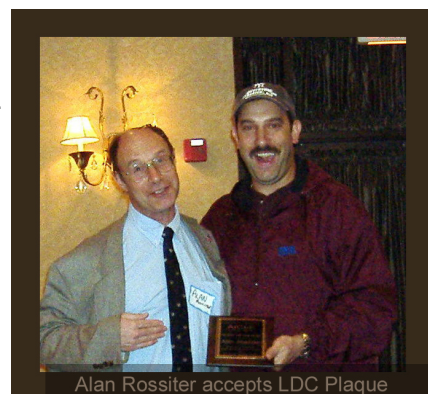


Wendy Young accepts her LDC Plaque

Select me for *One More* committee, and I'll slug ya!

Pete Belmonte, Chairman of the 2006 LDC held in Houston last June, presents plaques to two committee members at the February STS dinner meeting.

Plaques were later presented to other LDC committee members Susan Cannon, Freeman Self, Bob Goodmark, and Matt Kolodney.



Alan Rossiter accepts LDC Plaque

A plaque? For me? Thank you!

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March 1-2 in Houston, TX - Register Today!

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Call for Volunteers—2007 Offshore Technology Conference (OTC) - 1 of 2

It is again time to think about volunteering for the 2007 Offshore Technology Conference which will be held at Reliant Center beginning on Monday, April 30 and ending on Thursday, May 3, 2007. While the South Texas Section of AIChE had no direct involvement in the OTC this year, I am still looking for OTC volunteers.

Gordon Sterling of the ASCE, this year's Arrangements Chair, has given us permission to recruit volunteers for 2007 Arrangements Conduct Committee. I realize that some of you prefer to volunteer for the Registration Committee and we will try to obtain the same permission to recruit volunteers for the 2007 OTC Registration Conduct Committee. Please indicate your preference on the information form on [the following page](#).

As usual, volunteers will receive a complimentary OTC registration and parking pass, both of which are valid all four days of the OTC. In return, you will be asked to attend a short orientation meeting prior to the OTC. You will be given a badge and parking pass in return for working either a morning or afternoon Arrangements Committee assignment to a technical session or a Registration Committee shift during the OTC. For more information on the 2007 OTC, visit the site <http://www.otcnet.org/2007/>.

Details on the 2007 OTC Technical Program may be found at <http://www.otcnet.org/2007/technical/index.html>.

If you wish to participate as a volunteer for a 2007 OTC Conduct Committee, complete the form on [the next page](#), and email to thomasmenn@sbcglobal.net.

We also may need about 5 or 6 volunteers to help **staff the AIChE Booth** in the Lobby of Reliant Center. As in the past, AIChE will reimburse for parking for the day you staff the booth and provide one day free passes to cover the registration. Contact me at the email address below if you are available to staff the booth.

Again, thanks for volunteering for the OTC in the past.

Tom Menn, STS AIChE OTC Contact

thomasmenn@sbcglobal.net

The advertisement features a dark, dramatic background with a large, billowing plume of smoke or steam rising from an industrial facility. In the foreground, several fire trucks and emergency vehicles are parked, ready for action. A large, detailed image of a gas mask is positioned in the upper left corner, partially overlapping the smoke. The overall tone is serious and emphasizes the importance of rapid response in chemical emergencies.

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Call for Volunteers—2007 Offshore Technology Conference (OTC) - 2 of 2

Below is a form designed to provide enough information to allow an OTC Conduct Committee Chairman to complete and submit each OTC Conduct Committee Volunteer's Registration Form. Technical Session or Shift assignments will be made at a later date when the technical program and the volunteer's input have been received.

2007 Offshore Technology Conference Arrangements or _____ Conduct Committee Reliant Center -- Houston, Texas April 30 thru May 3, 2006

Arrangements or _____ Committee Volunteer Information Form (Committee Use Only) *Please Print:*

Registrant's Last Name (Family Name)

First Name (Forename)

Middle Initials

Title or Position

Company

Company P.O. Box or Mailing Address or Personal Mailing Address

City

State/Province

Zip/Postal Code

Country

Telephone Number (include area code and/or country and city code)

Facsimile (include area code and/or country and city code)

Cell Phone or Pager Number

< Optional & for Committee Use Only!

Day & Time that you wish to work: _____

If Arrangements, indicate at least three session numbers

Sponsoring Societies (Check all those that you are a member of):

- _____ American Association of Petroleum Geologists
- _____ American Institute of Chemical Engineers
- _____ American Society of Civil Engineers
- _____ ASME International Petroleum Technology Institute
- _____ Institute of Electrical and Electronics Engineers—Oceanic Engineering Society
- _____ Marine Technology Society
- _____ Society of Exploration Geophysicists
- _____ Society for Mining, Metallurgy, and Exploration Inc.
- _____ Society of Naval Architects and Marine Engineers
- _____ Society of Petroleum Engineers
- _____ The Minerals, Metals, and Materials Society

This form is intended to provide enough information for the Arrangements Chairman to fill out an OTC Conduct Committee Registration Form for you. If you wish to purchase tickets to certain events or proceedings, please use another form.

Copy, Complete, and E-Mail this completed form to thomasmenn@SBCGlobal.net

Volunteer Opportunities

Would you like to volunteer to help out with South Texas Section AIChE activities? Our Volunteer Coordinator is Matt Kolodney, and he knows about all the possible ways you could help out with your professional organization. Please phone Matt at (713) 767-3752 or send him an email at mkolodne@tceq.state.tx.us.

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Houston Office
2650 Fountain View Drive
Houston, TX 77057
Tel: 1.713.490.5220
Fax: 1.713.490.5222

ASME/AIChE Courses Offered

The University of Wisconsin-Madison, Department of Engineering Professional Development will offer the course

Chemical Engineering for Non-Chemical Engineers (2.1 CEU)

March 5-7, 2007 in Houston, Texas

<http://epd.engr.wisc.edu/emaJ059>

Topics Discussed

- * The Chemical Process
- * Understanding a Process Flow Sheet
- * Conservation of Mass
- * The Energy Balance
- * Flow of Liquids
- * Gases
- * Equilibrium and Separations
- * Design of Separation Equipment
- * Chemical Reactions
- * Fundamentals of Reactor Design
- * Energy Effects in Reactions

Reserve your space today! Toll free 800-462-0876

Or online at <http://epd.engr.wisc.edu/emaJ059>

Other courses offered by the ASME/AIChE in Houston are:

Fundamentals of Chemical/Petroleum Processes for Non-Chemical Engineers

March 21-23, 2007

A Tool In Risk Assessment: LOPA (Layer Of Protection Analysis)

March 19-20, 2007

PSM: Design and Evaluation of Process Safety Management Systems

March 19-21, 2007

Fundamentals of Process Safety

March 22-23, 2007

Project Evaluation: Capital and Operating Cost Estimation

March 19-21, 2007

Six Sigma for Chemical Engineers

March 19-20, 2007

Conceptual Development and Cost Estimating of Engineering Projects

March 22-23, 2007

For other information and registration for these courses, visit:

<http://catalog.asme.org/home.cfm?>

[LanguageID=&Category=ED&ProductFormat=SHC](http://catalog.asme.org/home.cfm?LanguageID=&Category=ED&ProductFormat=SHC)

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2007 Officers and Contact Info

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Volunteers

Arrangements Richard Newman, Criterion Catalysts

Membership Jerry Gresham, Gresham & Gresham

Young Professionals Susan Kerr
Peter Strasser

Awards Tom Menn

SOUTH TEXAS SECTION MISSION STATEMENT

As a section of AICHE, we serve chemical engineering professionals in the South Texas region through education, professional development, and networking.

Vision 2008

We will become an organization with a strong and active membership. We will accomplish this through:

1. Increasing awareness of the South Texas Section of the AICHE
2. Improving relevancy of our programs
3. Improving our governance
4. Hospitality/Welcome/Social

The South Texan is issued monthly, except June, July and August, by the American Institute of Chemical Engineers, South Texas Section. Opinions expressed are those of the authors and not of AICHE.

The newsletter is published electronically.

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The South Texan Newsletter Crew

WHAT DO YOU THINK OF THE NEWSLETTER? We want to know!

Contact us at newsletter@sts-aiiche.org with comments, questions, suggestions, and ideas for next month.

Newsletter Editor

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SusanCannon119@aol.com

Submit an article! Contact:

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