

TheReactor

New Orleans Section -
American Institute of
Chemical Engineers

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September 2004

Chair's Corner



Dr. Paul Fanning
Chair, 2004-2005
New Orleans Section AIChE

It is with great anticipation that I look forward to serving as Chair of the 2004-2005 New Orleans local Section of AIChE.

My experiences as Secretary and Vice-Chair have been quite rewarding, both professionally and personally, and I have every expectation that the Chair duties and responsibilities will be equally fulfilling.

Kelvin Langlois, the Vice-Chair and Program Chair, is working diligently to put together the 2004-2005 program. During the Officers meeting in late July, Kelvin discussed his vision of the

First Meeting for the 2004-2005 Year

We are fortunate to have Dr. David E. Dismukes, Associate Professor & Associate Director of the Center for Energy Studies at Louisiana State University as our speaker tonight.

His presentation will touch on the topics of natural gas and liquefied natural gas (LNG) and the impact of en-

ergy prices on Louisiana industry. program, and by all accounts, it has the makings of yet another in a long line of quality programs that the New Orleans Section has offered its members. For instance, the speaker for our first meeting (in September) will be Dr. David E. Dismukes, Associate Professor & Associate Director of the Center for Energy Studies at Louisiana State University. His presentation will touch on the topics of natural gas and liquified natural gas (LNG) and the impact of energy prices on Louisiana industry.

The specific programming details will be communicated as they become finalized. Look for email communications with links to our Newsletter from Anthony Fregosi, our Newsletter editor. The information will also be posted on our web site (<http://www.tulane.edu/~bmitche/aiche/aiche.html>), so feel free to access the web site for the latest scheduling details and other Section-related news.

At this time, I want to high-

light a change to the normal meeting schedule. Historically, our local Section meetings have been scheduled for the second Tuesday of the month from September through November and January through April. Unfortunately, I have business commitments that would preclude me from attending the September, October, and November meetings if they were held in this fashion. (I'll be in Atlanta attending Six Sigma Black Belt training.) When I disclosed this scheduling conflict during the Officers meeting, the Offices recommended to change these three meeting dates in 2004 so that I (as Chair) could be present at the meetings. Consequently, a decision was made to hold the September, October, and November meetings on the third Tuesday of these months.

Hence, the local Section meetings in 2004 will be held on 9-21-04, 10-19-04, and 11-16-04. Please make a special note of these changes and please accept my apologies for

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Proposed Future Meeting Programs:

(subject to change)

- **October 19, 2004**
- **November 16, 2004**
- **January 11, 2005**
- **February 8, 2005**
- **March 8, 2005**
- **April 12, 2005**

Meeting Schedule
Cost: \$15/person
Students: Free

5:30 — 6:00 P.M.	Social
6:00 — 7:30	Dinner
7:30 — 8:15	Speaker
8:15 — 8:30	Meeting
8:30 P.M.	Adjourn



Section Officers

“Anyone wishing information regarding becoming an officer, should contact the Section Chairman”

New Orleans Section Officers 2003-2004

Dr. Paul Fanning—Dow Chemical—985-783-3623	Chair
Kelvin Langlois—ERM—831-6700	Vice-Chair & Program Chair
Christopher Day—Chevron Chemical—391-6584	Secretary
Michael Waguespack—Middleberg, Riddle & Gianna—207-7340	Treasurer
Robert Sharshan— —467-8339	Immediate Past Chair
Bill Boutall—Wink—243-4539	Membership Chair & Director
Greg Tragitt—KBC—837-9228	Finance Chair & Director
Michael Waguespack—Middleberg, Riddle & Gianna—207-7340	Awards Chair
Anthony Fregosi—Cytec Ind.—431-6598	Newsletter Editor

Company Contacts

Chevron Chemical—Christopher Day 391-6584	M. S. Benbow—Rachel Wiggins 281-6282
Cytec Industries—Anthony Fregosi 431-6598	Nalco/Exxon—Joy Usener 1-800-366-2526 (Ext. 1285)
DEQ (B.R.)—Freddie Touro 225-219-3122	Occidental Chem.—Linda Bergeron 783-7365
Dow Chemical—Larry Mercier 985-783-4780	Petro-Marine Eng.— Contact Needed
Entergy—Jim Dean 576-7174	Shell Chemical— Contact Needed
EDG, Inc.—Leon Barnett 455-0858	Tulane Univ.—Dr. Brian Mitchell 862-8257
ExxonMobile—Tom Doolin 281-6154	URS (Walk)—Jay Hendrickson 599-4926
KBC Advanced Tech.—Don Hoppens 837-9228	W.H. Linder—Herb Roussel, P.E. 835-2577 (Ext. 3143)
Monsanto, Luling—Ralph Zamora 785-4580	Wink Engineering—Bill Boutall 246-7924

“Please Contact Jim Dean at 576-7174 if you would like to become a company contact—or to report any changes”



Anthony F. Fregosi
Editor

“Send comments to
Anthony.Fregosi@cytec.com”

Editor's Soap Box

Welcome back to another year of section activities and the Reactor. We hope you have had a safe and productive summer.

Once again the section leadership is excited about the program that is being developed for this year. As always, we solicit your input for programming ideas. The section

is always responsive to the needs and desires of its members.

We again encourage you to attend a meeting or other event we have planned for this year. We also request that you persuade your co-workers to come join you and us.

All of our members comment on the benefit and enjoyment they receive from the network-

ing opportunities and learning opportunities they receive from attending our meetings.

We very much hope to see you at a future meeting and welcome all ideas, suggestions, comments and offers to become more involved with our section.

Local Section 2004-2005 Officers

From left to right:
Dr. Paul Fanning, Chair;
Kelvin Langlois (Vice Chair & Program Chair);
Christopher Day (Secretary);
Michael Waguespack (Treasurer)

Dr. Paul Fanning was elected to serve as the local section chair at our last meeting of the 2003-2004 year. Paul served as Vice-Chair and Program Chair last year and did an outstanding job of arranging an interesting program for the section. This despite the fact that his wife recently gave birth to their first child. Paul is employed by Dow.

Kelvin Langlois was elected to the position of Vice-Chair and Program Chair. Kelvin, employed with ERM, served the section last year as our secretary. He has proposed several excellent programs for the coming year. Please check the website and the newsletter for updates.

Christopher Day is the section's secretary for the 2004-2005 year. Chris has served for several years as the section treasurer. Chris is employed with Chevron Chemical. Chris has expressed an interest in moving up the officer ladder, but has not felt he had the time until this year. I am sure that the section will give him their full support.

Michael Waguespack who is with Middleberg, Riddle & Gianna has been elected to the position of Treasurer. Michael has been very active recently on the board as both our Awards Chair and instrumental in trying to bring about several new outreach programs.

Dr. Sam Sullivan — Elected to AIChE Fellow

As described in AIChE's Constitution, Fellows...

"...shall have been in chemical engineering practice for twenty-five years and shall have been a Member [of AIChE] for at least ten years." Election as Fellow..." shall be recognition of professional attainment, and significant accomplishment in engineering."

Additionally, the number of Fellows at any time shall be limited to 10 percent of the total number of Fellows and Members who meet the criterion of ten years in Member grade.

Clearly to be elected to the membership grade of Fellow is not only an honor, but a testament of achievement and service.

Jett Arthur, PE, AIChE Fellow; Dr. Ray Bailey, AIChE Fellow; Scott Love, PE; Bill Boutall and Dr. Victor Law, AIChE Fellow all submitted nomination letters on behalf of Dr. Sullivan.

Dr. Sullivan's accomplishments are two numerous to list here, however they include: Instructor of Chemical Engineering, Texas A&M, Summer Research, US Army Missile Command, Summer Professor, Humble Oil and Refining, Summer Professor, Hybrid Systems, Summer Professor, Chevron Chemical, Assistant Professor of Chemical Engineering, Associate Professor of Chemical Engineering, and Associate Dean for Undergraduate Studies all at Tulane University.

Consultant for various companies including Humble, Hybrid

Systems, and Chevron among others.

Among the honors to Dr. Sullivan's credit are membership in: Tau Beta Pi, Phi Eta Sigma, Phi Kappa Phi, Sigma Xi, Omega Chi Epsilon, Omicron Delta Kappa and Kappa Delta Phi.

Sam Sullivan has also had a profound effect on the profession thorough the many students he has taught. His work with Joseph Boston led to the development of the "inside-out" algorithm for distillation column simulation. This algorithm is used in all of the popular commercial process simulators. Also, his student Carl Kleish went on to be a renowned expert on Cat Cracker design and operation. Further, his student James Nolen has been instrumental in the development of oil and gas reservoir simulators.

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Humor

"Laughter is the best
Medicine."

Alternate Meanings

Once again, The Washington Post published its yearly contest in which readers are asked to supply alternate meanings for various words. And the winners are...

1. Coffee (n.), a person who is coughed upon.
2. Flabbergasted (adj.), appalled over how much weight you have gained.
3. Abdicate (v.), to give up all hope of ever having a flat stomach.
4. Esplanade (v.), to attempt an explanation while drunk.
5. Willy-nilly (adj.), impotent.
6. Negligent (adj.), describes a condition in which you absent-mindedly answer the door in your nightgown.
7. Lymph (v.), to walk with a lisp.
8. Gargoyle (n.), an olive-flavored mouthwash.
9. Flatulence (n.) the emergency vehicle that picks you up after you are run over by a steamroller
10. Balderdash (n.), a rapidly receding hairline.
11. Testicle (n.), a humorous question on an exam.
12. Rectitude (n.), the formal, dignified demeanor assumed by a proctologist immediately before he examines you.
13. Oyster (n.), a person who sprinkles his conversation with Yiddish expressions.
14. Pokemon (n), A Jamaican proctologist.
15. Circumvent (n.), the opening in the front of boxer shorts.

"Why Engineers Don't Write Cook Books"

Chocolate Chip Cookies:

Ingredients:

1. 532.35 cm³ gluten
2. 4.9 cm³ NaHCO₃
3. 4.9 cm³ refined halite
4. 236.6 cm³ partially hydrogenated tallow triglyceride
5. 177.45 cm³ crystalline C₁₂H₂₂O₁₁
6. 177.45 cm³ unrefined C₁₂H₂₂O₁₁
7. 4.9 cm³ methyl ether of protocatechuic aldehyde
8. Two calcium carbonate-encapsulated avian albumen-coated protein
9. 473.2 cm³ theobroma cacao
10. 236.6 cm³ de-encapsulated legume meats (sieve size #10)

Instructions:

To a 2-L jacketed round reactor vessel (reactor #1) with an overall heat transfer coefficient of about 100 Btu/F-ft²-hr, add ingredients one, two and three with constant agitation. In a second 2-L reactor vessel with a radial flow impeller operating at 100 rpm, add ingredients four, five, six, and seven until the mixture is homogenous. To reactor #2, add ingredient eight, followed by three equal volumes of the homogenous mixture in reactor #1. Additionally, add ingredient nine and ten slowly, with constant agitation. Care must be taken at this point in the reaction to control any temperature rise that may be the result of an exothermic reaction.

Using a screw extrude attached to a #4 nodulizer, place the mixture piece-meal on a 316SS sheet (300 x 600 mm). Heat in a 460K oven for a period of time that is in agreement with Frank & Johnston's first order rate expression (see JACOS, 21, 55), or until golden brown. Once the reaction is complete, place the sheet on a 25C heat-transfer table, allowing the product to come to equilibrium.



Chair's Corner

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any inconvenience these scheduling modifications may cause.

Let me extend a personal invitation to each of you to attend the monthly meetings. Each gathering provides an opportunity to network with other chemical engineers and to learn something new.

Please support your local Section by attending the meetings and encouraging your co-workers and peers to attend as well.

You'll be glad that you did.

Sam Sullivan Elected Fellow

(Continued from page 3)

His service to AIChE has included serving as an officer of our local section, serving as the Tulane AIChE student chapter advisor, serving on the AIChE professional development committee and participating in several national meetings.

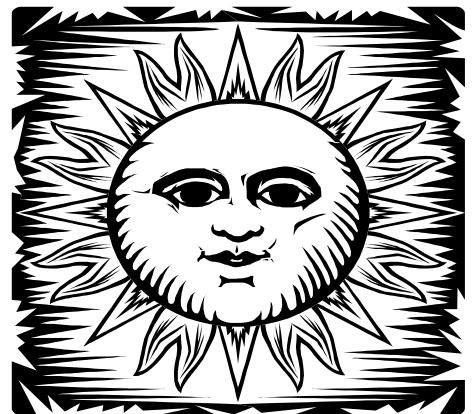
He has also been a staunch advocate of P.E. registration having served on the Louisiana Board of Registration for professional Engineering (nine years) and the National Council of Examiners for Engineering and Surveying (ten years).

Please join the section in congratulating Dr. Sam Sullivan on this much deserved accomplishment.



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World





Announcements

SEMINAR ANNOUNCEMENT

5th Tulane Engineering Forum Advanced Technologies for Homeland Security

Friday, September 17, 2004
8:30 a.m. — 4:00 p.m.
New Orleans Hilton Riverside and Towers
New Orleans, Louisiana

The Tulane Engineering Forum, currently in its fifth year, is an annual conference sponsored by the School of Engineering of Tulane University and the Society of Tulane Engineers. The Engineering Forum provides an opportunity for engineering and business professionals to learn from industry and academic experts about how homeland security is helped by advanced technologies. The Forum will also feature a lunch presentation on Natural Hazards in Coastal Louisiana. Forum sessions will be held on a host of engineering-related topics in a variety of industries: Chemical/Biological/Petrochemical, Infrastructure/Transportation, Image & Cyber Technology. Experts from around the country will share their knowledge with the audience in plenary talks, panel presentations and concurrent sessions, as well as poster sessions. The program is underwritten by sponsoring companies. There is a fee to attend.

Professional engineers can earn **7 Professional Development Hours** for attending, including 1 Ethics Professional Development Hour.

For up-to-date program and registration information go to: www.eng.tulane.edu/tef

For more information, contact Jenny Kottler, Coordinator, at 504-891-1044 or jkottler@bellsouth.net

Seating is limited, so early registration is recommended.



Section Ads



New Members Are Always Welcome

If you would like to become a member of the section, please contact the Membership Chairman listed on Page 2.

Newsletter Advertisement Charges

Size	\$/Issue	\$/Year 9 Issues
Business Card	\$ 16	\$ 100
1/4 page	\$ 40	\$ 250
1/2 page	\$ 80	\$ 500
Full Page	\$ 160	\$1000

Note: Dates following an ad denotes the last month it will run.

To order an advertisement, Please contact **Anthony Fregosi, Anthony.Fregosi@cytec.com**

New Orleans Section - American
Institute of Chemical Engineers

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TO:



Quote of the
Month

"Live your life each day as you would
climb a mountain.

An occasional glance toward the
summit keeps the goal in mind, but
many beautiful scenes are to be ob-
served from each new vantage point.

Climb slowly, steadily, enjoying each
passing moment; and the view from
the summit will serve as a fitting
climax for the journey."

– Harold V. Melchert

Meeting Notice!

Date:	September 21, 2004
Time:	5:30 P.M.
Place:	Steak & Ale 3870 Veterans Blvd. Metairie, LA.

*New Orleans Section, Winner of:
1995 "Randall D. Sheeline Award", for excellence in public relations activities.
1999 "Catalyst Grassroots Award", for support of the grassroots advocacy program.
2001 "Marx Isaac's Award", for excellence of a small local section newsletter.*