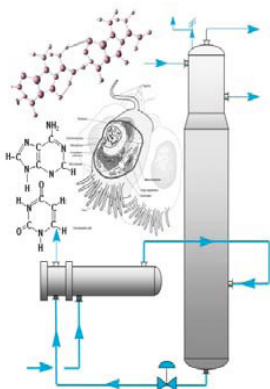


OCTOBER Newsletter

Chicago Section

www.aiche-chicago.org

October 2009



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AIChE Chicago

October 2009 Meeting Notice

Automation of Batch and Procedural Control Processes through Standards Based Design

Marcus Tennant

Principal Systems Architect

Yokogawa IA Global Marketing(USMK)

Date: **MONDAY, October 5, 2009**

Location: 3rd Floor Conference Center, Room Illinois AB
University of Illinois at Chicago
Student Center East
750 S. Halsted St. Chicago, IL

Cost: Members - \$40 Unemployed Members - \$20
Non-Members - \$45 Students - \$5

To Register Click Below or go to www.aiche-chicago.org

<http://quest.cvent.com/i.aspx?4W,M3,1e5f2274-ab23-4e18-ac41-40a10c538693>

Agenda

5 -6 pm	Social
6:00 pm	Dinner
7:10 pm	Announcements & Presentation of Thiele Award
7:30—8:30	Speaker



Chair's Corner

The key is motivation

Someone in the audience once asked Dr. Neil deGrasse Tyson, an astrophysicist, what advice he has for the school teachers. He did not answer the question directly but his answer was very interesting. He asked the audience how many teachers throughout their many years of studies and learning have really helped them in their later life. The response was 3-5 teachers. He then went on and said that it just doesn't matter what the teacher is teaching; all that matters is that he or she can motivate the students and show them the way. Dr Tyson then joked: "Find those teachers and clone them." Different people get motivated by different things and it is not my intention to elaborate and discuss this topic. Probably one can find their driving force much easier than others.



I cannot speak for anybody else who was involved in organizing, managing and executing the September meeting, but one of the things that keeps me going is the great turnout of our meetings. The combination of venue, food and the speaker drew close to a 100 people to that meeting. Not to forget our company sponsor "Middough" who also provided beverage tickets and free travel mugs. I am sure that we will have a great October meeting, which is combined with the AIChE Midwest Regional Conference.

Back in summer, a survey was sent to the email list and we asked about your preference of meeting days, duration and location. About 40 people responded to that survey and as a result, we are trying to make the meeting durations a bit shorter, have more meeting in west and north of Chicago and alternate the meeting days. You can always send your comments about the events or other issues to aichechicago@gmail.com. As an example, our October conference fees were revised after a member contacted the symposium committee and inquired about the unemployed members rate.

Our membership committee is also updating our mailing list so that we won't miss any single member in our area. If you know anybody who is not receiving our emails, please have them contact us.

I hope to see you all at our future meetings.

Reza Mostofi
UOP



October Meeting

Speaker's Biography

Marcus Tennant has been with Yokogawa Corporation since December 2008 as a Principal Systems Architect. Prior to Yokogawa, Marcus was employed at Rockwell Automation for 10 years as a Product Manager and Application Engineer. Prior to that, he was with Morton International for 10 years holding various positions in Process Development, Project Engineering, and Q.A. and with Jones-Blair Company for 5 years as an R&D Chemist and Process Engineer.

Marcus has a B.S. in Chemical Engineering from Michigan State University and an M.S. in Operations and Technology Management from the Stuart School of Business at Illinois Institute of Technology. He has been a member of AIChE since 1984 and is also a member of ACS and WBF-the organization for production technology.



Batch processes are built to achieve very flexible manufacturing requirements. Often, it has been difficult to automate a batch process and to keep its flexibility. Developed and refined for the past 20 years, the ISA Batch Standard (ISA 88) has become a commonly understood approach to communicate batch system requirements across R&D, process engineering and control disciplines, and has enabled manufactures to build flexible and highly automated batch systems.

Abstract

This presentation will outline the basics of the ISA-88 standard and overview how it has helped many different companies to achieve agile and flexible manufacturing in automated batch systems. It will also show how the standard is now being applied to continuous and discrete applications.

September Meeting

The presentation can be found at:

<http://www.aiche-chicago.org/Events/AIChEChicagoSept2009Meeting.pdf>



PE License Changes

The Chicago section has drafted letters both in support of and opposing the proposed changes to the Professional Engineering requirements. These letters will be sent to the Governor, the Speaker of the House, The Senate President, The chairs of the responsible house and senate committees and the Director of the Division of Professional Regulation.

The letters Will be available for signature at the Symposium and at the October meeting. The word documents will also be posted on the Chicago AIChE website so that members may use them for expressing their opinion to their individual state senator and representative."

Congratulations

Congratulations to **Dr. Urmila Diwekar** on being conferred the title of AIChE Fellow. This achievement is bestowed to individuals who have made significant contributions to AIChE, and to the chemical engineering profession.



Dr. Diwekar is President of the Vishwamitra Research Institute, a not-for-profit research organization that studies mathematical modeling, optimization, uncertainty and risk analysis of large scale systems. She was on the faculty of the Carnegie Mellon University, and later served as a Professor at the University of Illinois at Chicago (UIC) in the Bio, Chemical, and Industrial Engineering departments.

Dr. Diwekar is the author of two widely recognized books, [Batch Distillation: Simulation, Optimal Design, And Control](#) and [Introduction to Applied Optimization](#). She is a prolific author and presenter, and her research in the areas of simulation, design, optimization, control, stochastic modeling and synthesis of chemical processes have resulted in profound contributions to many diverse fields.

She held the Director position of both the Computer and Systems Analysis and the Environmental divisions within AIChE.

Thank you for your many contributions to our field!





2009 AIChE Midwest Regional Conference October 5 - 6, 2009 University of Illinois at Chicago (UIC), Chicago, IL

The [American Institute of Chemical Engineers \(AIChE\)](#), and the [College of Engineering](#) at UIC in conjunction with the [IEEE Chicago](#), [AIChE Chicago Local Section](#) and the [Department of Chemical Engineering at the University of Illinois at Chicago \(UIC\)](#), is holding the 2009 Midwest Regional Conference on **ENERGY and SUSTAINABILITY** from October 5 - 6.

This **two-day symposium** features programming in the following topics:

Monday:

- Illinois Institute of Technology Research
- University of Illinois, Urbana-Champaign Research
- EPA Initiatives in Sustainability
- DOE Initiatives in Sustainability
- Solar Cells (EE)
- Future Electrical System (EE)

Tuesday:

- Gas Technology Institute Biomass energy
- University of Illinois Chicago Research
- Alternative Fuels
- Northwestern University Research
- Medical Imaging Adv. (IIT EE)
- LED Lighting (EE)

These sessions will feature invited presentations by leading Governmental and academic professionals and promise to focus on the challenges and the opportunities in energy and sustainability.

Enhancing the symposia is a **high school student outreach program** for local schools. The featured speaker is **Dr. Al Sacco — Professor at Northeastern University and former NASA astronaut.**

Other highlights include:

- Opening Remarks for Symposium: **Dr. Sohail Murad**, UIC Chemical Engineering Department
- **Monday** Keynote Speaker: **Dr. Walter W. Kovalick**, USEPA
- **Tuesday** keynote speaker **Mr. Guenter Conzelmann**, Director of the Center for Energy, Environmental, and Economic Systems Analysis at Argonne National Laboratory.
- YPAB sponsored resume workshop and practice interviews
- A monthly meeting for the AIChE Chicago Section will be held on Monday evening.
Marcus Tennant will be the meeting speaker on Automation of Batch and Procedural Control.

You benefit from learning about the new areas of research, development & new applications while networking with leading authorities in these areas. You will also earn **Professional Development Hours** for attendance, which can be used to keep **P.E.** and other licenses current.

Registration Form - 2009 AIChE Midwest Regional Conference

Online Registration is also available at

<http://www.aiche-chicago.org/Symposium/2009.html>

October 5 – 6, 2009 at the University of Illinois at Chicago, Chicago, IL
(Please Print Clearly)

LAST NAME		FIRST NAME	MI
Company Name			
Mailing Address			
City		State	Zip
Telephone	Fax	E-Mail Address	Professional Society

REGISTRATION FEES

REGISTRATION FEES				
		ONE DAY		
		By 8/31/2009	By 9/27/2009	On-Site
Professional Engineering Society Members		\$ 125	\$ 150	\$ 175
	Non-Members	\$ 150	\$ 175	\$ 200
	Young Professional Engineering Society Member*	\$ 75	\$ 100	\$ 125
	Unemployed Members	\$ 50	\$ 50	\$ 50
	Students**	\$ 10	\$ 10	Not Available
	Program Book***	\$ 15	\$ 15	\$ 15
		TWO DAY		
		By 8/31/2009	By 9/27/2009	On-Site
Professional Engineering Society Members		\$ 200	\$ 225	\$ 250
	Non-Members	\$ 225	\$ 250	\$ 275
	Young Professional Engineering Society Member*	\$ 125	\$ 150	\$ 175
	Unemployed Members	\$ 75	\$ 75	\$ 75
	Students**	\$ 15	\$ 15	Not Available
	Program Book***	\$ 15	\$ 15	\$ 15
Monday Evening Dinner	Members	\$ 40	Non-Members	\$ 45
	Unemployed Members	\$ 20	Student	\$ 5
		Dinner Options: <input type="checkbox"/> Chicken <input type="checkbox"/> Vegetarian		
*35 years old or younger				
**Student registration includes lunch. Students are welcome to attend sessions for free.				
***Program Book is included in non-student registration fees. Students may purchase a program book – subject to availability				

☐ Payment by Check (payable to **AIChE, Chicago Section**)

Total Enclosed \$ _____

☐ Payment by Credit Card ☐ MasterCard ☐ Visa ☐ Amex

CC# _____

Card Holder _____ Exp. _____

Signature _____

Total Charge \$ _____

Please mail registration and the payment to:
Jeffery Perl

Chicago Chem Consultants Corp
14 N. Peoria Street, Suite 2C
Chicago, IL 60607

Phone: (312) 226-2436

Fax: (312) 226-8886

Or online at:

<http://www.aiche-chicago.org/Symposium/2009.html>

Parking is available for \$12/day in the UIC lot at the northeast corner of Taylor and Halsted (enter on Taylor).



2009 AIChE Midwest Regional Conference

Organizing Committee Members

If you would like more information on the symposium or would like to inquire about company sponsorship opportunities, please contact azita.ad@gmail.com.

Meeting Program Chair

Dennis O'Brien, Jacobs Consultancy

Chair UIC Research Program

Randall Meyer, University of Illinois - Chicago

Meeting Program Co-Chairs

Shannon Brown, Ambitech

Jeff Perl, Chicago Chem Consultants

Chair UIC - EE Solar Cells

Sidhartha Ghosh, UIC EE

AIChE Staff Contact

Kristine Chin, AIChE

Chair IIT- ChE Research Program

Don Chmielewski, IIT ChE

Chair Future Electrical Energy System

Kevin Taylor, Detroit AIChE, IEEE

Chair IIT- EE Medical Imaging

Don Chmielewski, IIT ChE

Chair Alternate Fuels

Patrick Shannon, Middough Consulting

Chair UIUC-ChE Research Program

Charles M. Schroeder, University of IL - Champaign

Chair UIC EE – LED Lighting

Robert Becker, UIC -EE

Chair NWU Research Program

Justin Notestein, Northwestern University

Chair GTI Biomass Energy

Terry Marker, Gas Technology Institute

Chair EPA Initiatives in Sustainability

Jim Van der Kloot, USEPA

Chair DOE Initiatives in Sustainability

George Crabtree, Argonne National Lab

Finance

Azita Ahmadzadeh, SimuTech Group

High School Outreach Program

Ludwig Nitsche, UIC ChE

Alan Zagoria, UOP

Richard K. Isherwood, UOP

James T. Muench, UIC College of Eng.

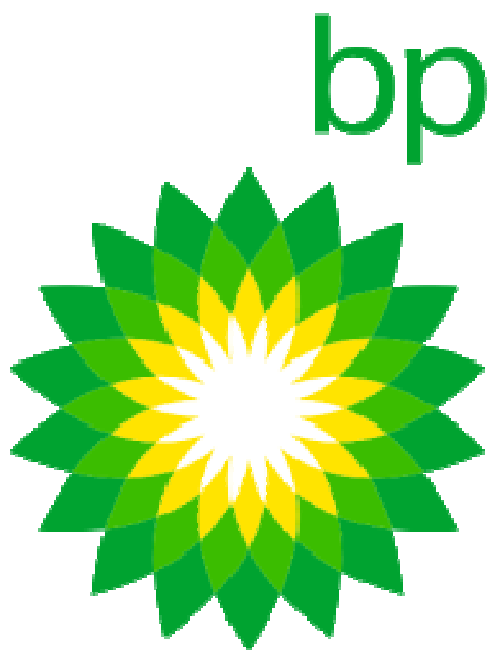
Advisory Committee

Don Chmielewski, IIT ChE

Annette Johnston, Abbott Labs

Jeff Perl, Chicago Chem Consultants

Thanks to our Sponsors of 2009 AIChE Midwest Regional Conference



UIC College of Engineering

YPAB 2009 EVENTS

OCTOBER 2009

At the Regional Conference

Résumé Help Session,

Monday, October 5, 2009

Mock Interview Session,

Tuesday, October 6, 2009

Time: 1:30-3:30pm

Location: White Oak Room

Freshen up your résumé and interview skills with one-on-one help from local Young Professionals. Make sure to bring your résumé! Reserve your spot for either session by emailing Jessica Swary at jessicaswary@msn.com. Hurry, space is limited!

Happy Hour Mixer,

Tuesday, October 6, 2009

Time: 5:30-8:00pm

Location: Spectrum Bar & Grill, 233 S. Halsted, Greektown, Chicago, IL

An excuse to hang out and meet other local students and Young Professionals. Appetizers and soda will be provided. Other food and drinks will be individually billed. RSVP to [Bill Glogowski](#) at williamkurt@gmail.com.

NOVEMBER 2009

INNOMAG Pump Round Table

Date: Thursday, November 19, 2009

Time: 6:00-8:00pm

Location: INNOMAG facility, 409 S. Vista, Addison, IL 60101

Matt Moy from Innovative Mag-Drive (INNOMAG) will be presenting on location in Addison, IL. The discussion will include a general pump overview, with focus on the sealless, non-metallic mag-drive pump. There will be lots of hands-on opportunities including examples of a traditional centrifugal, sealless mag-drive centrifugal, and positive displacement pumps.

Please RSVP to [Jessica Swary](#) at jessicaswary@msn.com by **Thursday, November 12th**.

Space is limited to the first 15 responses. Pizza and pop will be provided.

INNOMAG has been producing sealless, non-metallic, magnetically driven pumps since 1998 and has become recognized as innovative leader in the industry. INNOMAG strives to keep work environments safe and clean by producing a zero emissions pump. For more information, visit the website at www.innomag.com.

For future YPAB events, visit the website

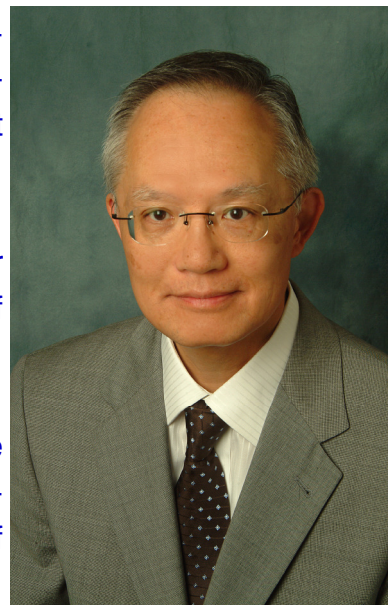
www.aiche-chicago.org/ypab

PROFESSOR HAROLD H. KUNG WINS THE 2009 ERNEST W. THIELE AWARD

Congratulations to [Dr. Harold Kung](#), Professor of Chemical Engineering and Director of the Center for Energy Efficient Transportation at Northwestern University for being awarded the 2009 Ernest W. Thiele award!

This prestigious award will be presented to [Dr. Kung](#) at the October 5, 2009 meeting of the Chicago AIChE section at the University of Illinois, Chicago..

[Professor Kung](#) is recognized for his seminal contributions to the fundamental understanding of catalytic phenomena, innovative design of novel catalytic structures, and leadership in the teaching of sustainability.



He has had an outstanding record of accomplishments demonstrated by his leading contributions in various areas of heterogeneous catalysis, elucidating the relationship between surface atomic structures and an oxide and its chemical and catalytic properties. Dr. Kung also serves the scientific community by offering his view on sustainability to the students at Northwestern. His course on [Sustainability, Technology and Society](#) emphasizes the interaction among technology, human behavior, policy and business strategy and practice.

[Dr. Kung](#) received his B.S. Ch.E. at the Univ. of Wisconsin, Madison, and his PhD at Northwestern.

The Ernest W. Thiele award is presented annually to a Midwest region member of AIChE who has made outstanding contributions to advance the practice of Chemical Engineering. The award is sponsored by BP, and consists of a plaque and a \$1000 honorarium.

Please join us in congratulating Professor Harold Kung on his achievement.

Ernest W. Thiele Award Recipients

<u>YEAR</u>	<u>RECIPIENT</u>	<u>AFFILIATION</u>	<u>RECOGNITION & ACHIEVEMENT</u>
1983	E.W. Thiele	Standard Oil (Indiana)	Catalysis, Distillation fundamental advances
1985	B.B.Broughton	UOP	Aromatics Separation Processes, adsorptive separation
1986	T.J. Hanratty	Univ. Of Illinois	Advances in Fluid Mechanics
1987	G. Thodos	Northwestern	Physical Property Advances
1988	L.O. Stine	UOP	Petroleum/Petrochemical Processes
1989	D.T. Wasan	IIT	Research and Progress on Separation Processes
1990	R.S. Mah	Northwestern	Chemical Process System Analysis
1992	J.J. Carberry	Notre Dame	Chemical Reaction Engineering research, innovation, and education
1993	R..J. Bertolacini	Amoco	Catalysis research innovations and leadership
1994	J.W. Westwater	Univ. Of Illinois	Research in Heat transfer and contributions in teaching
1995	Norman Li	UOP	Pioneering research in membranes and separations
1996	Rathin Datta	Argonne	Original research in metabolic engineering and membranes
1997	Hamid Arastoo-pour	IIT	Academic leadership and environmental engineering
1998	Arvind Varma	Notre Dame	Fundamental advances in synthesis of materials, catalysis and reactor stability
1999	S. George Bankoff	Northwestern	Heat transfer advances in chemical and nuclear engineering
2000	Henry Linden	IGT	Leadership of the Institute Of Gas Tech
2001	Paul Sechrist	UOP	Contributions to computational fluid Mechanics, CCR, and FCC refining processes
2002	Julio Ottino	Northwestern	Research in Chaos Theory and mixing of solids and liquids
2003	Ali Cinar	IIT	Contributions in process modeling, monitoring and control. As an educator championing computers and statistics.

Ernest W. Thiele Award Recipients

<i>YEAR</i>	<i>RECIPIENT</i>	<i>AFFILIATION</i>	<i>RECOGNITION & ACHIEVEMENT</i>
2004	Ted M. Knowlton	PSRI	For his contributions to fundamental and applied research, and his leadership in the fields of fluidization and particulate solids.
2005	Dimitri Gidaspow	IIT	For his fundamental contributions to computational fluid dynamics, multi-phase flow and fluidized bed systems and as an educator.
2007	Lynn H. Rice	UOP	For his fundamental contributions to the petroleum refining isomerization process.
2008	Robert Lyczkowski	Argonne	For innovative application of multiphase theory and computational fluid dynamics.
2009	Harold Kung	Northwestern	For contributions to understanding catalytic phenomena, design of catalytic structures, and teaching.

Upcoming Meetings and Events

October 1-2, 2009

2009 AIChE Regional Process Technology Conference

Galveston, TX

October 5, 2009

Automation of Batch and Procedural Control Processes through Standards Based Design

UIC, Chicago, IL

October 5-6, 2009

2009 AIChE Midwest Regional Conference

UIC, Chicago, IL

November 10, 2009

InDeck, Tour of boiler supplier/manufacturer

Wheeling, IL

November 8-13, 2009

2009 AIChE Annual Meeting

Nashville, TN

November 17, 2009

AIChE Day at the Chem Show

New York, NY

January 12, 2010

Abbott Park

February 9, 2010

Nanoclusters for H₂ and CO₂ Storage

March 10, 2010

EPA lab tour

Chicago, IL

April 14, 2010

Hybrid Vehicles

May 11, 2010

Project Design for risk Management

NOMINATIONS REQUESTED FOR THE ERNEST W. THIELE AWARD

The Ernest W. Thiele award is sponsored by BP and recognizes the outstanding contributions to our profession by a Midwest region chemical engineer. This award was established by the AIChE Chicago Section and is presented annually to a Midwest region AIChE member. This internationally recognized award consists of an engraved plaque and \$1000 honorarium presented at our sectional meeting.

Nomination forms and additional information can be obtained from the Thiele Committee Chair. Completed nominations are due to the committee chair no later than March 1, 2010.

One of the highest honors a distinguished chemical engineer can receive is our Chicago Section Thiele award. Please consider nominating a deserving engineer for this prestigious award.

Jim Simnick

BP Amoco Complex, J-8
150 W. Warrenville Road
Naperville, IL 60566
Ph 630-420-5936
fax 630-420-4832
email: james.simnick@bp.com

Need a Webmaster

AIChE Chicago section is looking for a volunteer to assist and help us with our website.

Please send an email to

aichechicago@gmail.com if you are interested.



Senior Membership Application

Application to become an AIChE senior member can be found in this issue. If you are qualified consider becoming a senior member.



American Institute of Chemical Engineers
PO Box 5169 • Brookfield, CT 06804-5169
Tel: 203.702.7860, Fax: 203.775.5177 www.aiche.org

SENIOR MEMBER UPGRADE FORM

USE THIS FORM TO UPGRADE TO SENIOR MEMBERSHIP AT NO EXTRA COST

PLEASE MAKE SURE YOU QUALIFY:

See Membership Upgrade Requirements
on page 2 of this form.

TO RETURN THIS FORM:

Fax to 203.775.5177 or mail to AIChE,
PO Box 5169, Brookfield, CT 06804-5169

REGARDING TAX DEDUCTIONS:

AIChE dues are tax deductible to the extent
allowed by law. Please consult your tax advisor
for further information.

AIChE Tax Identification #: 13-162389

► 1. YOUR PERSONAL INFORMATION

Mr. Mrs. Ms. Dr. First Name: _____ M.I.: _____ Last: _____

Company/University: _____ Job Title: _____

Preferred Mailing Address: ☐ Home ☐ Company ☐ University

Address Line 1: _____

Address Line 2: _____

City: _____ ST/Province: _____ ZIP: _____ Country: _____

Home Phone: (_____) _____ Business Phone: (_____) _____

Fax: (_____) _____ E-mail: _____

Date of Birth: ____/____/____ Gender: ☐ Male ☐ Female

Your AIChE Membership #: _____

Forgot your AIChE Membership number? Call 1-800-242-4363.

► 2. YOUR ACADEMIC DEGREES

Copy of International degree(s) must be attached.

	DEGREE	MAJOR	DATE OF DEGREE
College/University _____	Bachelor _____	_____	_____
College/University _____	Master _____	_____	_____
College/University _____	Doctoral _____	_____	_____

► 3. YOUR PROFESSIONAL EXPERIENCE (Please document experience to meet criteria in the Membership Requirements Chart on page 2)

From Year: _____ To: _____ Present Employer: _____ Address: _____

City: _____ ST/Province: _____ Zip/Postal Code: _____ Country: _____ Job Title: _____

Duties/responsibilities relative to chemical engineering: _____

From Year: _____ To: _____ Employer: _____ Address: _____

City: _____ ST/Province: _____ Zip/Postal Code: _____ Country: _____ Job Title: _____

Duties/responsibilities relative to chemical engineering: _____

From Year: _____ To: _____ Employer: _____ Address: _____

City: _____ ST/Province: _____ Zip/Postal Code: _____ Country: _____ Job Title: _____

Duties/responsibilities relative to chemical engineering: _____

☐ I, the undersigned, attest that the statements I have given are true. If elected to Senior Membership, I agree to abide by the
Constitution, the Code of Ethics and the Bylaws of AIChE. (See page 2 of this form).

Signature x _____ Date _____

For office use only:

Member #: _____ App'l # _____ App'l Grd: _____ Status: _____ Code W05

AICHE MEMBERSHIP REQUIREMENTS

CONSTITUTION (a)

ARTICLE III — DEFINITION OF THE PROFESSION

Chemical engineering is the profession in which a knowledge of mathematics, chemistry and other natural sciences gained by study, experience and practice is applied with judgment to develop economic ways of using materials and energy for the benefit of mankind.

ARTICLE IV — MEMBERSHIP

Section 1. The membership of the Institute shall consist of FELLOWS, SENIOR MEMBERS, MEMBERS, and STUDENT MEMBERS. A candidate for election to any grade of membership shall be engaged in an activity and possess scientific knowledge or practical experience which qualify the candidate to cooperate with engineers in the advancement of chemical engineering knowledge and practice.

(a) FELLOWS shall have the exclusive privileges of representing themselves as Fellows, of wearing the emblem of Fellow, and shall also have all the privileges of Senior Members.

(b) SENIOR MEMBERS shall have the exclusive privileges of representing themselves as Senior Members, of wearing the emblem of membership, of holding office, and of voting on amendments to this Constitution, and shall also have the privileges of nominating and voting for officers and directors and the privileges that are common to all classes of membership.

(c) MEMBERS shall have the exclusive privileges of representing themselves as Members and of wearing the emblem of membership, and shall also have the privileges of nominating and voting for officers and directors and the privileges that are common to all classes of membership. They shall also have the privileges of holding office and of voting on amendments to this Constitution after 4 years as a Member (a 4-year Member). A Member may, after regular application and election, become a Senior Member.

Section 2. All applications for membership shall be made to the Office of the Secretary in writing, signed by the applicant, in such form and in such detail as may be prescribed by the Board of Directors, and shall be referred to the Committee on Admissions.

Section 3. Election to membership shall be by vote of the Committee on Admissions. Election to Fellow shall be by vote of the Board of Directors upon nomination by five Fellows or Senior Members. Past Presidents of AIChE are exempted from the nomination requirement. All nominations and recommendations shall be held in strict confidence by the Committee and by the Board.

BYLAWS (b)

SECTION I — MEMBERSHIP REQUIREMENTS FOR MEMBERSHIP

Qualification for membership grade is determined by a combination of education and experience credits. An engineering school of recognized standing is one in which the engineering curriculum is accredited by the Accreditation Board for Engineering and Technology or is on the Admissions Committee's Approved List of Foreign Schools.

MEMBERSHIP GRADE REQUIREMENTS CHART

Education	Degree	Years of work experience in chemical engineering	
		Member	Senior Member
An earned degree in chemical engineering from a school of recognized standing	Bachelor	0	4
	Master	0	3
	Doctoral	0	2
An earned degree in chemical engineering from a school not of recognized standing or an earned degree in natural science or engineering other than chemical engineering from a school of recognized standing	Bachelor	0	6
	Master	0	5
	Doctoral	0	4
An earned baccalaureate degree in natural science or in engineering other than chemical engineering from a school not of recognized standing		0	6
An earned baccalaureate degree in a field other than engineering or natural science		0	8
No degree		0	10

(a) From the AIChE Constitution as amended to January 17, 2003

(b) From the AIChE Bylaws as amended to January 17, 2003.

CODE OF ETHICS

Members of the American Institute of Chemical Engineers shall uphold and advance the integrity, honor and dignity of the engineering profession by: being honest and impartial and serving with fidelity their employers, their clients, and the public; striving to increase the competence and prestige of the engineering profession; and using their knowledge and skill for the enhancement of human welfare. To achieve these goals, members shall:

1. Hold paramount the safety, health and welfare of the public and protect the environment in performance of their professional duties.
2. Formally advise their employers or clients (and consider further disclosure, if warranted) if they perceive that a consequence of their duties will adversely affect the present or future health or safety of their colleagues or the public.
3. Accept responsibility for their actions, seek and heed critical review of their work and offer objective criticism of the work of others.
4. Issue statements or present information only in an objective and truthful manner.
5. Act in professional matters for each employer or client as faithful agents or trustees, avoiding conflicts of interest and never breaching confidentiality.
6. Treat fairly and respectfully all colleagues and co-workers, recognizing their unique contributions and capabilities.
7. Perform professional services only in areas of their competence.
8. Build their professional reputations on the merits of their services.
9. Continue their professional development throughout their careers, and provide opportunities for the professional development of those under their supervision.
10. Never tolerate harassment.
11. Conduct themselves in a fair, honorable and respectful manner.

APPLICANT - KEEP THIS DOCUMENT WITH YOUR OTHER IMPORTANT PAPERS.

Upcoming Live Webinars from AIChE National:

Effective Communication-Driven Leadership Skills in a Dynamic Global Market

Presented by Dr. Syamal K. Poddar

Wednesday, October 7, 2009

A "Virtuous" Approach to Ethics in Engineering

Presented by Dr. Edmund G. Seebauer

Wednesday, October 14, 2009

The Project Success Method: Project Success through Practical Hands on Tools, Applications and Methodology

Presented by Clinton M. Padgett

Wednesday, October 21, 2009

TRIZ: Patterns of Invention and Resolving Engineering Contradictions

Presented by Jack Hipple

Wednesday, October 28, 2009

SimuTech Launches Lend A Hand Program

Program provides free **ANSYS simulation software program for unemployed engineers.**

SimuTech Group is reaching out to engineers that have been recently displaced or unemployed.

The "Lend a Hand" program will provide free training of **ANSYS** simulation software at any of SimuTech Group's North American training facilities. The goal is to provide engineers with a marketable skill that will place them in a more competitive situation as they search for employment opportunities.

"**ANSYS** products are an integral part of the engineering process in many different industries throughout the world," says Ken Lally, CEO of SimuTech Group. "If you simply type the keyword '**ANSYS**' into any of the major career sites such as Monster.com or CareerBuilder.com, you can easily find numerous employment opportunities requiring **ANSYS** expertise. In these difficult economic times, every little bit helps and SimuTech Group hopes that these classes will provide engineers that extra edge needed in finding employment. "

Qualifying engineers will be able to attend all level of classes for **ANSYS Mechanical**, **ANSYS Fluent**, **ANSYS CFX**, and **ANSYS AUTODYN** simulation software programs. Upon the successful completion of the class, attendees will receive a certificate of completion.

For more information, visit www.simutechgroup.com

2009 Darsh T. Wasan Lecture @ IIT

The Illinois Institute of Technology's (IIT) Department of Chemical and Biological Engineering (ChBE) is honored to welcome **Dr. Norman Li** to present the 2009 Darsh T. Wasan Lectureship, hosted **Wednesday, September 30 at 4:00 pm** at the university's Main Campus. Li's lecture is titled "Membrane Technology for a Thirsty Century – from an Industrial Perspective of Energy, Sustainability, and Globalization." Among his many accomplishments, Li is a member of the National Academy of Engineering, as well as the Chinese Academy of Sciences and the Academia Sinica in Taiwan. He is best known for his research in membrane science and technology, and his invention of liquid-facilitated transport membranes. Li is currently president of NL Chemical Technology, Inc., headquartered in Mount Prospect, Ill.



The Wasan Lecture was established in 2008 from the generous contributions of former students, faculty and friends of Darsh Wasan, currently Motorola Chair Professor of Chemical Engineering and Vice President for International Affairs, to honor his many contributions to IIT and the advancement of the chemical engineering profession. The lecture seeks to bring internationally recognized leaders to IIT to discuss global issues facing today's society.

Additional information is available at:

http://www.iit.edu/engineering/chbe/about/history/wasan_lecture.shtml.

All members of AIChE Chicago are invited to attend this free event. To RSVP, please contact cbeisel@iit.edu.

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