



2012 Election: President-Elect



Ignacio Grossmann

Ignacio Grossmann is the Rudolph and Florence Dean University Professor of Chemical Engineering at Carnegie Mellon Univ. (CMU). He is director of the Center for Advanced Process Decision-Making, which comprises 20 petroleum, chemical, engineering, and software companies. Previously, he was director of the Synthesis Lab at the Engineering

Design Research Center and head of CMU's chemical engineering department (1994–2002). Before joining CMU in 1979, he was an R&D engineer at the Mexican Petroleum Institute. He received his BS from Universidad Iberoamericana, Mexico City, and his MS and PhD from Imperial College, London, all in chemical engineering. An AIChE Fellow, Ignacio has served on AIChE's Board of Directors; as Chair of the Computing and Systems Technology Div.; Chair of AIChE's International Committee; member of AIChE's Awards Committee; and Associate Editor of *AIChE Journal* for process systems engineering. He is a member of the National Academy of Engineering, and a recipient of AIChE's William H. Walker, Warren K. Lewis, and Computing in Chemical Engineering awards. A member of ACS, ASEE, and the Institute for Operations Research and the Management Sciences (INFORMS), he was named one of the "Hundred Chemical Engineers of the Modern Era" by AIChE.

Statement: AIChE faces unique challenges and opportunities in the coming decade. The pressing problems faced in energy, water, the environment, and health provide great opportunities for chemical engineers to make unique contributions in these areas. At the same time, globalization and the financial crisis have placed significant burdens on industry and on members of AIChE, challenging the traditional structures that have served the profession and the Institute well in the past. In order to re-energize AIChE and provide a new direction for the future based on a strong foundation, as President I would focus on:

- Providing relevant services and meetings to industrial members and local sections of AIChE, including tutorials and programs for professional development, and assistance with identifying job opportunities in the U.S. and overseas
- Promoting research and development in new frontier areas, including energy, water and sustainability, biological engineering, and nanotechnology, and strengthening the fundamental and core areas in chemical engineering
- Promoting AIChE membership, especially among young professionals and students to provide a strong foundation for the future of the Institute
- Exploiting web-based technologies for disseminating current and relevant information to the profession, for continuing education, and for networking by professionals, students and faculty
- Promoting international collaborations and international membership to expand the global role of AIChE.

I am happy to discuss with anyone the future of AIChE. Feel free to contact me at grossmann@cmu.edu.



Phillip R. Westmoreland

Phillip R. Westmoreland is Professor of Chemical and Biomolecular Engineering at North Carolina State Univ. (NCSCU) and Executive Director of the NCSCU Institute for Computational Science and Engineering. His chemical engineering degrees are from NCSCU (BS, 1973), Louisiana State Univ. (MS, 1974), and MIT (PhD, 1986). He worked in coal research

at Oak Ridge National Laboratory (1974–1979), as a ChE faculty member at the Univ. of Massachusetts Amherst (1986–2009), and as a program director at the National Science Foundation (2006–2009). An AIChE Fellow, Phil began service as public relations chair and secretary in the Knoxville–Oak Ridge Section. He was Chair of the Central New England Section, founding Chair of the Computational Molecular Science and Engineering Forum (CoMSEF), and Chair of the National Program Committee, and has served on the Boards of Directors of AIChE, the forums CoMSEF and NSEF, the Catalysis and Reaction Engineering Div., the Combustion Institute, and the Council for Chemical Research. He is also a trustee and past president of the educational nonprofit CACHE Corp.

Statement: The central issue for AIChE's effectiveness and membership growth is embracing a broadened identity of chemical engineering.

AIChE's most important roles are representing and benefitting its members and the chemical engineering profession. AIChE provides mutual professional support through our local sections, young professionals groups, divisions, forums, technical institutes, meetings, webinars, and insurance programs. AIChE is a public face for the profession, shaping the curriculum, information for legislators and regulators, and an increasingly global presence. AIChE's ChemE on Demand, eLibrary, CareerEngineer, and ChEnected.com are proving to be valuable new resources that are web-enabled and people-backed.

But who are ChEs? Fifty years ago, it seemed easy to identify ChEs as the professionals who knew how to create, understand, and apply chemical processes. These are still the important majority of our members, where processes have broadened to include environmental technologies, biotechnology, electronic materials, personal-care products, and foods alongside fuels and petrochemicals.

Meanwhile, ChEs were and are deeply engaged in the infrastructure for chemical processing, like sales, technical service, management, and intellectual-property law. The most dramatic additions — involvement in life sciences, creating new substances, and developing and using powerful new cyber-applications — are still pointed toward applying chemical sciences.

All these paths are chemical engineering because they are applying chemical sciences for engineering solutions. AIChE can actively promote that vision. "ChEs can do anything!" is a powerful message when based on common fundamentals. Embracing our depth and breadth is a key to chemical engineering's future vitality.

I welcome your comments at pwestmr1nd@gmail.com.

David Himmelblau — AIChE Fellow, Past Director, Author of Classic ChE Texts

David M. Himmelblau, the Paul D. and Betty Robertson Meek and American Petrofina Foundation Centennial Professor Emeritus in Chemical Engineering at the Univ. of Texas at Austin, died on Apr. 27, 2011, at age 87.

An expert in optimization, fault detection and rectification, neural networks, and general process analysis, Himmelblau enjoyed a long career at UT-Austin, where he taught countless students and wrote 11 books, including such classic chemical engineering texts as *Basic Principles and Calculations in Chemical Engineering* (1962, now in its seventh edition), *Process Analysis by Statistical Methods* (1970), and *Optimization of Chemical Processes* (1987, with Thomas Edgar).

Born in Chicago, IL, Himmelblau earned a BS in chemical engineering at MIT, where he was a member of the U.S. Army Reserve Officers' Training Corps, eventually serving as an intelligence officer in Japan during World War II. After the war, he earned an MBA at Northwestern Univ. He returned to the U.S. Army during the Korean War, before turning to his true calling as a chemical engineering professor — earning his PhD from the Univ. of Washington in 1957. He joined the chemical engineering faculty at UT-Austin in 1961, and taught there for 42 years.

A Fellow of AIChE, Himmelblau served as an Institute Director from 1974 to 1976, and was honored with

AIChE's Founders Award for Outstanding Contributions to the Field of Chemical Engineering (1992). He also received the Computing and Systems Technology (CAST) Div. Award (1986). Today, CAST presents the David Himmelblau Award for Innovations in Computer-Based Chemical Engineering Education in his honor.

Himmelblau was also a president of CACHE Corp. (Computer Aids for Chemical Engineering Education), and received the CACHE Award from the American Society for Engineering Education (ASEE). Additional honors include UT-Austin's Joe J. King Professional Engineering Achievement Award, which recognizes a faculty member who has made significant contributions to the engineering profession, and ASEE's Joseph Martin Award.

An avid reader and swimmer, Himmelblau was a fan of UT football, the Dallas Cowboys, and Judge Judy, and enjoyed walking his dog and eating rich meals. His favorite vacation destinations included summer conferences, abandoned silver mines, Disneyland — where he liked the rides — and fishing trips. He is survived by his wife of 62 years, Betty Hartman Himmelblau, his children and their families.



Corning Sponsors AIChE ScaleUp Program for Student Members

Corning has joined the growing roster of companies that are Gold Sponsors of ScaleUp, AIChE's student membership initiative. ScaleUp provides sponsored AIChE membership, career development tools, internships, and employment opportunities to chemical engineering undergraduates at more than 160 colleges and universities in the U.S. and Canada. Corning joins Platinum Sponsor Chevron and Gold Sponsors Air Products, Dow, DuPont, Merck, Praxair, and UOP in helping to underwrite this program.

Since its launch in 2007, ScaleUp has grown from 3,000 undergraduate student members to more than 13,900 today. The program has permitted AIChE to sustain and expand its offerings for undergraduates — including annual conferences, award programs, and professional development services — and to provide a way for company representatives and ChEs-to-be to interact. Companies gain insight into future employees, and chemical engineering students come to better understand workplace expectations and skill requirements, in addition to learning more about the organizations that employ chemical engineers.

One of the most valued benefits of ScaleUp, by both corporate sponsors and students, has been the rise in safety awareness and safe practices among undergraduate chemical engineering students through the Safety and Chemical Engineering Education (SACHE) Certificate Program. Since 2008, ScaleUp has sponsored SACHE membership for all U.S. and Canadian chemical engineering departments that have an AIChE student chapter. To date, more than 5,400 SACHE Certificates have been awarded to ScaleUp-sponsored students who demonstrate proficiency in process safety training.

With its support of ScaleUp, Corning, a leader in specialty glass and ceramics, is demonstrating a long-term commitment to excellence in education and practice among the next generation of chemical engineering practitioners and industry leaders.

Additional corporate support for AIChE ScaleUp is needed. Interested members and company representatives can learn about ScaleUp, and the benefits of sponsorship, by contacting Cathy Diana, Director of the AIChE Foundation, 646-495-1340 or cathd@aiche.org.

AICHE eLibrary Expands its Reference Collection

AICHE has expanded its online eLibrary offerings with the incorporation of McGraw-Hill's AccessEngineering Library — which includes the publisher's technical collections in the chemical, industrial, energy, nanotechnology, materials science, biomedical, environmental and green/sustainable engineering fields. AIChE members can use the eLibrary's AccessEngineering portal to connect with many of McGraw-Hill's popular scientific texts, including *Perry's Chemical Engineers' Handbook*; *A Working Guide to Process Equipment*; *Chemical and Process Design Handbook*; *Chemical Reactor Design, Optimization, and Scaleup*; *Handbook of Chemical Engineering Calculations*; *Handbook of Petroleum Refining Processes*; *Industrial Chemical Process Design*; *The Properties of Gases and Liquids*; and more.

The AIChE eLibrary has also added new titles through its partnership with Knovel, including *Ullmann's Chemical Engineering and Plant Design*; *Fundamentals of Heat Exchanger Design*; *Handbook of Nanomedicine*; *The Wiley Guide to Chemical Incompatibilities*; *Alternative Fuels Guidebook*; *Handbook of Biomaterials Properties*; and more. Knovel's collection also includes books in AIChE's Center for Chemical Process Safety (CCPS) *Guidelines Series*.

The eLibrary offers an interactive experience — including tools for data analysis, text annotation and highlighting, the ability to save and organize frequent searches, and the opportunity to share titles and content with colleagues.

AIChE members can access both the AccessEngineering and Knovel collections through the AIChE eLibrary at www.aiche.org/eLibrary.



In Memoriam

Charles A. Bishop, 94, Pittsburgh, PA
 Leonard J. Brushie, 70, East Hartford, CT
 William P. Clinton, 90, Highland Mills, NY
 Heros Dergregorian, 77, Krotz Springs, LA
 Steven B. Edgar, 52, Oxnard, CA
 Robert E. Greenhalgh, 87, Mayport, MN
 George L. Meyers, 93, Bartlesville, OK
 Samuel J. Nuccio, 87, Walnut Creek, CA
 Phillip T. Schaefer, 63, Tomahawk, WI

AIChE® Calendar

Conferences



For information and registration details, visit www.aiche.org/conferences or call Customer Service at 1-800-242-4363 or 1-203-702-7660 (outside the U.S.)

AUGUST
8–10, 2011

3rd CCPS Latin American Process Safety Conference and Expo

Hilton Buenos Aires Hotel • Buenos Aires, Argentina

SEPTEMBER
11–15, 2011

56th Annual Safety in Ammonia Plants and Related Facilities Symposium

Sheraton Montreal Hotel • Montreal, QC

SEPTEMBER
26–28, 2011

6th AIChE/SPE Joint Workshop — Challenges in Flow Assurance and Crude Oil Quality

Omni-Houston Westside • Houston, TX

OCTOBER
4–6, 2011

Offshore Technology Conference (OTC) Brasil 2011

Riocentro • Rio de Janeiro, Brasil

OCTOBER
6–7, 2011

AIChE Regional Process Technology Conference

Moody Gardens Hotel • Galveston, TX

OCTOBER
16–21, 2011

2011 AIChE Annual Meeting

Minneapolis Convention Center • Minneapolis, MN

NOVEMBER
1–3, 2011

AIChE Northeast Regional Conference at the ChemShow

Jacob Javits Convention Center • New York, NY



Scheduled Webinars

Register and view live and archived webinars at <http://www.aiche.org/webinars/>

JUNE 8, 2011
2:00–3:00 PM ET

Top 10 Rules to Follow When Dealing With a Headhunter

Presented by Patrick Ropella

JUNE 9, 2011
3:00–4:00 PM ET

Society for Biological Engineering (SBE) Webinar: Providing Energy to a Growing World: Bio-Gasoline and High-efficiency Engines

Presented by Dr. Mark Holtzaple *Free for SBE Members*

JUNE 15, 2011
2:00–3:00 PM ET

The Real World of Forensic Chemistry: What They Don't Tell You on CSI

Presented by Dr. Jason E. Schaff

JUNE 22, 2011
2:00–3:00 PM ET

Life Cycle Analysis Tools and Applications for Sustainability

Presented by Dr. Gregory Keoleian

JUNE 29, 2011
2:00–3:00 PM ET

Conflict Resolution: Facilitating Quality Decision Making

Presented by Merri Hanson