



Meet Some of AIChE's New Fellows

At the 2013 Annual Meeting in San Francisco, CA, AIChE leaders and Fellows gathered to recognize some of the recently elected AIChE Fellows at a special breakfast on Nov. 5. Fellow candidates are nominated by their peers, and must have significant chemical engineering practice (generally 25 years) and have been a member of AIChE for at least 10 years, with at least three years as a senior member. Here are some of the Fellows elected in 2013. More will be introduced in future issues of *CEP*.



Linda Hartle Bergeron, P.E., is a senior process engineer at Occidental Chemical Corp. (Hahnville, LA). She has more than 20 years of experience in chemical and chlor-alkali manufacturing and process safety engineering. She is a longtime leader of AIChE's New Orleans Local

Section and serves on AIChE's Professional Development Committee and Local Sections Committee, among other activities. She is a chemical engineering alumnus of Clemson Univ., a member of the National Society of Professional Engineers, and is a licensed professional engineer in Louisiana.



Ramesh Chawla is a professor and Chair of Chemical Engineering at Howard Univ. (Washington, DC), with 40 years of experience in teaching, research, and consulting in chemical and environmental engineering. He has published more than 50 technical papers and made over

70 conference presentations in the areas of air pollution, water treatment, hazardous-waste remediation, incineration kinetics, and photochemical smog formation. He has organized numerous technical conferences and serves on the Science Advisory Committee of the EPA's Hazardous Substance Research Center, among other activities. He is active in AIChE's National Capital Section and is an ABET program evaluator.



Jerry Y. S. Lin is a Regents Professor at Arizona State Univ., where his research focuses on membrane science, adsorption, and energy storage. He has published more than 230 journal papers and 60 book chapters and conference proceedings papers, and holds eight U.S. and international patents. He received AIChE's Award for Excellence in Industrial Gas Technologies and he is

a Fellow of the American Society for the Advancement of Science, among many honors and affiliations. He has received several international distinguished visiting professorships. He is an editor of the *Journal of Membrane Science*, and has chaired several national and international meetings on membranes.



Rebecca Starkweather, P.E., is Managing Partner of Scientex LC (Salt Lake City, UT), a provider of chemical and software engineering and consulting services for the chemical, petrochemical, and refining industries, and equipment manufacturers. Her previous employers

include Union Carbide, Celanese Chemical, and Valtek (now Flowserve). She earned a BS in chemical engineering from Texas A&M Univ. and an MS in management of technology from Georgia Tech. She is active in the Society of Women Engineers and chaired AIChE's Equipment Testing Procedures Committee. She also leads a variety of philanthropic endeavors. She is a licensed professional engineer in Texas.



Madhava Syamlal is the Focus Area Leader of Computational Science and Engineering at the National Energy Technology Laboratory (Morgantown, WV), where he develops simulations for the development of efficient energy technologies. He has nearly 30 years of

experience in computational modeling, particularly with multiphase computational fluid dynamics (CFD) models. He also directs the Carbon Capture Simulation Initiative — a consortium of national labs, universities, and companies that is developing modeling and simulation tools for accelerating carbon capture technology. He earned a PhD in chemical engineering at Illinois Institute of Technology, and received the Fluidization Process Recognition Award from AIChE's Particle Technology Forum.

Haldor Topsøe, 1913 – 2013

Haldor Topsøe, a chemical engineer and founder of the Danish catalyst company Haldor Topsøe A/S, died on May 20, 2013, only a few days before his 100th birthday. Topsøe had remained active as the company's Chairman of the Board until a few weeks prior to his death. Topsøe's son, Henrik Topsøe, became Chairman upon his father's passing.

The company, with its headquarters in Lyngby, Denmark, specializes in the production of heterogeneous catalysts and the design of process plants based on catalytic processes.

It also develops process technology for petroleum refining, ammonia production, methanol production, and other industries. Today, Haldor Topsøe A/S has facilities in 10 countries on four continents, and employs approximately 2,500 people.

Born on May 24, 1913, and raised in Copenhagen, Topsøe studied physics under Niels Bohr and chemical engineering at the Technical Univ. of Denmark, where he developed his lifelong passion for scientific research. He established the Haldor Topsøe company in 1940, with a goal of bringing "a lot more science to the industry."

Along with his desire that his company's research would bring the benefits of chemical engineering, particularly catalysis, to businesses worldwide, Topsøe was committed to humanitarian causes. In his own words: "The corporate world in itself means nothing unless it improves the lives of people and the conditions in poor countries." While his company provided technology and scientific innovation to address global challenges in energy, food supply, and the environment, Topsøe was personally devoted to charitable organizations, such as SOS Children's Villages International.

Among many honors received in his lifetime, Topsøe was awarded the Grand Cross of the Order of Dannebrog by the Queen of Denmark, and the Hoover Medal, which he received at AIChE's 1991 Annual Meeting in Los Angeles, CA. He was also named Engineer of the Century by the Danish Association of Engineers.



▲ Haldor Topsøe with catalysts. Photo courtesy of Haldor Topsøe A/S

Papoutsakis Receives Wang Award

Eleftherios "Terry" Papoutsakis, the Eugene DuPont Chair in the Dept. of Chemical Engineering at the Univ. of Delaware's Delaware Biotechnology Institute, has been selected to receive AIChE's Society for Biological Engineering's Daniel I. C. Wang Award for Excellence in Biochemical Engineering. The Wang Award presentation and an associated lecture is a highlight of AIChE's Annual Meeting, held this year from Nov. 3–8, in San Francisco, CA.



In his lecture, held on Nov. 4 and entitled "Force to Death and New Life, Some with Programming Vitality," Papoutsakis addressed regenerative medicine and the quest to provide biological or hybrid synthetic-biological materials that can enable or facilitate therapeutic interventions.

Papoutsakis' research focuses on interdisciplinary areas of systems biology, metabolic engineering, experimental and computational genomics with applications in stem-cell biology, and prokaryotic biology for the production of biofuels and chemicals from biomass. He is a fellow of the American Academy of Microbiology, the American Association for the Advancement of Science, and the American Institute of Medical and Biological Engineers.

Established in 2012, the Wang Award is named for Professor Daniel I. C. Wang of MIT, in appreciation of his contributions to education and research in biochemical engineering, as well as his technological innovations in bioprocessing. (See the related special section on pp. 33–52 of this issue of *CEP*.) More information about the Wang Award is available at www.aiche.org/sbe/community/awards.

In Memoriam

Irving Begelman, 84, Louisville, CO

Harry G. Byars, 82, Dallas, TX

Larry I. Cockburn, 57, Barney, ND

Marc F. Fontaine, 86, Houston, TX

Robert L. Hirsch, 95, Sacramento, CA

John I. Hughes, 94, Hockessin, DE

Walter M. Kofford, 89, Ramona, CA

George Parrott, 62, Prescott Valley, AZ

John A. Rothrock, 87, Wilmington, NC

John Thurley, 88, Camberley, U.K.