



Glotzer Will Deliver the 2013 Danckwerts Lecture

Sharon C. Glotzer, the Stuart W. Churchill Collegiate Professor of Chemical Engineering and Professor of Materials Science and Engineering at the Univ. of Michigan, Ann Arbor, has been chosen to deliver the 2013 P. V. Danckwerts Memorial Lecture. Her lecture, entitled “*Assembly Engineering: Materials Design for the 21st Century*,” will take place on Apr. 23, 2013, during the 9th European Congress of Chemical Engineering (ECCE) in The Hague, Netherlands.

The Danckwerts Lecture was established in 1985 to honor Peter V. Danckwerts, a past president of the Institution of Chemical Engineers (IChemE), for his scholarship and for his contributions as an executive editor of *Chemical Engineering Science*. The lecture is co-sponsored by Elsevier (the journal’s publisher), IChemE, AIChE, and the European Federation of Chemical Engineers, and is held in alternating years at the ECCE and AIChE annual meetings.

Glotzer, whose research focuses on the self-assembly of nanoscale systems, is examining the notion of shape and its role in bottom-up assembly. In her lecture, she will discuss core principles of assembly engineering and the application of these principles to the design and synthesis of next-generation materials.

Glotzer’s research at the Univ. of Michigan — where she

also holds faculty appointments in physics, applied physics, and macromolecular science and engineering — is sponsored by the U.S. Dept. of Defense, U.S. Dept. of Energy, U.S. National Science Foundation, the J. S. McDonnell Foundation, and the Simons Foundation. She is the author of more than 160 technical publications, and has presented more than 250 invited lectures worldwide.



Photo: Michigan Engineering Portraits

In addition to numerous honors, she was elected in 2011 to the American Academy of Arts and Sciences, is a Fellow of the American Physical Society (APS), and was named a Simons Investigator in 2012.

Glotzer earned a BS in physics from UCLA and a PhD in physics from Boston Univ. She has held elected offices in AIChE and APS, and served on numerous committees of the National Academies. She is the co-founding director of a new Virtual School of Computational Science and Engineering (www.vscse.org).

AIChE MEMBERS ARE ELECTED TO THE NATIONAL ACADEMY OF ENGINEERING

Election to the National Academy of Engineering (NAE) is among the highest professional distinctions accorded an engineer. In February 2013, the NAE elected 69 new members and 11 foreign associates to its distinguished ranks — including the following AIChE members:

Lorenz T. Biegler, Bayer Professor of Chemical Engineering, Carnegie Mellon Univ. (Pittsburgh, PA) — for contributions in large-scale nonlinear optimization theory and algorithms for application to process optimization, design, and control.

Donna G. Blackmond, professor of chemistry, Scripps Research Institute (La Jolla, CA) — for kinetic and mechanistic studies of catalytic organic reactions for pharmaceuticals, and for studies of chiral amplification.

Thomas F. Degnan Jr., manager, breakthrough and leads generation, ExxonMobil Research and Engineering Co. (Annandale, NJ) — for contributions to novel catalytic processes for improved lubricant, fuel, and petrochemical production.

Curtis W. Frank, William M. Keck Sr. Professor of Chemical Engineering, Stanford Univ. — for elucidation of molecular organization in polymers and other soft materials.

Ganesh Kailasam, research and development vice president and global research and development director, performance materials divi-

sion, Dow Chemical Co. (Freeport, TX) — for development of processes for production of high-performance polymers including polyetherimides.

James C. Liao, Ralph M. Parsons Foundation Chair Professor, department of chemical and biomolecular engineering, Univ. of California, Los Angeles — for advances in metabolic engineering of microorganisms to produce fuels and chemicals.

Edward Wilson Merrill, professor emeritus, department of chemical engineering, Massachusetts Institute of Technology (Cambridge, MA) — for contributions to biocompatible materials, bio-rheology, and biomedical engineering education.

Eric S. G. Shaqfeh, Lester Levi Carter Professor, professor and chair, department of chemical engineering, and professor of mechanical engineering, Stanford Univ. — for contributions to dynamics and rheology of complex fluids, including polymeric liquids, vesicles, and fiber suspensions.

Henrik Topsøe, executive vice president and chief scientific officer, Haldor Topsøe A/S (Lyngby, Denmark) — for development of hydrodesulfurization catalysts and elucidation of their active sites.

Kechang Xie, vice president, Chinese Academy of Engineering (Beijing) — for understanding coal molecular structure and its reactivity, and for leadership in the modern clean coal conversion industry.

AIChE Meetings Calendar

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.)

MAR. 14–15, 2013	Center for Chemical Process Safety's (CCPS) Asia Pacific Workshop Goa, India
MAR. 19–20, 2013	AIChE/Society for Petroleum Engineers' Flow Assurance Workshop The Driskill Hotel • Austin, TX
APR. 27–28, 2013	AIChE Local Section Leadership Workshop Grand Hyatt San Antonio • San Antonio, TX
APR. 28 – MAY 2, 2013	AIChE Spring Meeting and 9th Global Congress on Process Safety Grand Hyatt San Antonio • San Antonio, TX
MAY 6–9, 2013	Offshore Technology Conference (OTC) Reliant Park • Houston, TX
JUNE 4–6, 2013	7th Process Development Symposium Chicago, IL
AUG. 11–15, 2013	International Conference on Sustainable Science and Engineering (ICOSSE'13) Kingsgate Marriott • Cincinnati, OH
AUG. 12–14, 2013	5th Latin American Conference on Process Safety Hilton Cartagena • Cartagena, Colombia
AUG. 25–29, 2013	58th Annual Safety in Ammonia Plants and Related Facilities Symposium Marriott Frankfurt Hotel • Frankfurt, Germany
SEP. 8–11, 2013	CCPS Asia-Pacific Conference on Process Safety Kempinski Hotel • Qingdao, China
SEP. 28 – OCT. 2, 2013	Middle East Process Engineering Conference (Co-sponsored by CCPS) Bahrain
NOV. 3–8, 2013	2013 AIChE Annual Meeting San Francisco Hilton • San Francisco, CA

Webinars

Register and view live and archived webinars at www.aiche.org/webinars.

MAR. 20, 2013 2:00–3:00 PM ET	From Wet Algae to Liquid Fuels Presenter: Phillip Savage
APR. 3, 2013 2:00–3:00 PM ET	Arsenic in Rice and Rice Products Presenter: Michael Crupian
APR. 17, 2013 2:00–3:00 PM ET	Innovation in Improving Performance Presenter: Randall Jensen

AIChE Education Calendar

Instructor-Led Training

For more information, and to register for AIChE Instructor-Led Training courses, visit www.aiche.org/education.

MAR. 11–12, 2013 HOUSTON, TX	Heat Exchanger Design and Operations Course # CH294 • Instructor: Thomas G. Lestina
MAR. 11–13, 2013 LAS VEGAS, NV	Emergency Relief Systems Design using DIERS Technology Course # CH173 • Instructors: James Huff, Arthur Shaw
APR. 9–10, 2013 SAN FRANCISCO, CA	Flow of Solids in Bins, Hoppers, Chutes, and Feeders Course # CH032 • Instructor: Eric Maynard
APR. 11, 2013 SAN FRANCISCO, CA	Pneumatic Conveying of Bulk Solids Course # CH033 • Instructor: Eric Maynard
APR. 9–11, 2013 SAN FRANCISCO, CA	Combo Course: Flow of Solids AND Pneumatic Conveying of Bulk Solids Course # CH757 • Instructor: Eric Maynard
APR. 15–16, 2013 LAS VEGAS, NV	CCPS's Fundamentals of Process Safety Course # CH500 • Instructor: Brian Kelly
APR. 15–17, 2013 LAS VEGAS, NV	Distillation in Practice Course # CH004 • Instructor: John Farone
APR. 15–17, 2013 LAS VEGAS, NV	Essentials of ChE for Non-Chemical Engineers Course # CH710 • Instructor: Jack Hipple
MAY 20–21, 2013 SAN FRANCISCO, CA	Bioseparations: Principles, Applications, and Scale-up Course # CH401 • Instructor: Roger Harrison
MAY 20–21, 2013 HOUSTON, TX	Conceptual Development and Capital Cost Estimating Course # CH139 • Instructor: John Williams
MAY 22–23, 2013 HOUSTON, TX	Project Evaluation: Operating Cost Estimating and Financial Analysis Course # CH140 • Instructor: John Williams
MAY 20–23, 2013 HOUSTON, TX	Combo Course: Project Evaluation Operating Cost Estimating Course # CH758 • Instructor: John Williams
JUNE 3–4, 2013 LAS VEGAS, NV	Combustible Dust Hazards: Dust Explosions Course # CH034 • Instructor: Urdem Ural
JUNE 3–5, 2013 CALGARY, AB, CANADA	CCPS's HAZOP Studies and other PHA Techniques for Process Safety and Risk Management Course # CH157 • Instructor: Robert Johnson
JUNE 6–7, 2013 CALGARY, AB, CANADA	CCPS's Advanced Concepts for Process Hazard Analysis Course # CH754 • Instructor: Robert Johnson