2023

OUTSTANDING CHEMICAL ENGINEER

AWARDS

PURDUE UNIVERSITY

Davidson School of Chemical Engineering

THURSDAY

SEPTEMBER 14, 2023

OUTSTANDING
CHEMICAL ENGINEER AWARDS

PROGRAM

EVERY YEAR, SINCE 1988, THE DAVIDSON SCHOOL OF CHEMICAL ENGINEERING HAS RECOGNIZED alumni who have achieved distinction as leaders while making significant contributions to their fields, thus reflecting the value of a chemical engineering degree. Over the years, only 150 of the School's alumni have been accorded this prestigious award. Tonight, the Davidson School of Chemical Engineering is proud to add Carrie Anderson, Michael Klobuchar, Kyle Kostroski and Amy Roth as recipients of the Outstanding Chemical Engineer Award.

Welcome Remarks

Sydney N. Hummel, Chemical Engineering Student Ambassador

Dinner

2023 Honorees Presentation of Awards

Carrie L. (Byrnes) Anderson | BSChE 1991

Michael A. Klobuchar | BSChE 1998

Kyle P. Kostroski | BSChE 2004 | PhD 2008

Amy L. Roth | BSChE 1991

Closing Remarks

Sangtae Kim, Distinguished Professor and Jay and Cynthia Ihlenfeld School Head
Davidson School of Chemical Engineering

OUTSTANDING CHEMICAL ENGINEERS PLAQUE
FORNEY HALL, WEST ENTRANCE

PLAQUE HONORING THE OUTSTANDING CHEMICAL ENGINEERS was created in 1993 and has been awarded to all OChEs since then. Its centerpiece is a copy of the depiction of a sulfuric acid plant shown over the west entrance to Forney Hall. It represents the central and continuing role of chemical engineers in the design and operation of all aspects of chemical manufacturing. The computer screen in the lower right shows a differential equation. While it is meant to represent the fundamental modeling that chemical engineers do to extend fundamental understanding, explain observed phenomena and, most importantly, predict system behavior, the computer is also a reminder that chemical engineers use systems approaches to solve huge problems involving many variables and wide ranges of length and time scales. The double helix in the upper right represents the important role that chemical engineers are playing in the understanding and utilization of biological processes in medical and commercial applications. The artist's rendition of the polystyrene chain in the lower left is a reminder that chemical engineers continue to develop new understandings and new processes that support the property refinement and ongoing growth of polymeric materials and maintenance of polymers as a cornerstone of the chemical industry. The structure in the upper left is that of Y-zeolite, the key component in the fluid catalytic cracking of crude oil to make gasoline. It is a reminder that rate processes and their catalytic acceleration are central to a chemical engineer's ability to accomplish the chemical transformations that produce valuable products, improve the environment, and fuel the world economy.

Carrie L. (Byrnes) Anderson

BSChE 1991

Chief Financial Officer | Campbell Soup Company

For an impressive career in corporate finance reflecting a broad base of global experience in multiple industrial end markets.

CARRIE L. (BYRNES) ANDERSON never envisioned her chemical engineering degree would lead to a Chief Finance Officer role, but that's exactly how her trajectory unfolded.

As an undergraduate, Anderson quickly transitioned from her small all-female high school to the fast-paced and academically challenging environment at Purdue. With help from a supportive network within the Davidson School of Chemical Engineering, she excelled academically, graduating with highest distinction.

While at Purdue, she completed a five-session co-op program with General Motors, and after graduation accepted an engineering role with the company. While at General Motors, she earned her MBA from Ball State University and transitioned into quasi-technical and financial roles, later transitioning fully into finance, progressing through investor relations, treasury, business unit finance and controllership roles. She has also held finance leadership roles with Integra LifeSciences, Dover Corporation, and Delphi Corporation, now known as Aptiv Corp.

In January 2023, Anderson was appointed Executive Vice President and Chief Financial Officer at Campbell's where she leads the finance function, including controllership, corporate financial planning and analysis, corporate strategy and development, tax, treasury, internal audit, investor relations, transactional services and information technology. She also serves as a member of the board of directors for Embecta Corporation.

Anderson credits her participation in Purdue's co-op engineering program with teaching her very early in her career the value of project ownership and time management, honing presentation and critical thinking skills, and understanding the importance of financial acumen. She credits the program and experiences in providing career clarity, as well as boosting her confidence and self-efficacy – knowing she had the skills, knowledge, and capabilities to be successful in different situations and roles. While in the program she also made lifelong friendships that continue to this day.

"My chemical engineering degree and years at Purdue prepared me for so much more beyond gaining technical competency in the field," Anderson says. "Through my undergraduate experience, I learned to believe in myself, surround myself with talented people, to advocate for myself and my abilities and reach for and expect success."

Michael A. Klobuchar

BSChE 1998

Executive Vice President and Chief Strategy Officer | Merck & Co. Inc.

For an unrelenting commitment to applying leading-edge science to save and improve lives worldwide.

MICHAEL A. KLOBUCHAR was the only student to raise his hand in a freshman chemistry lecture hall, volunteering to participate in a study designed to explore the cognitive steps required to acquire new knowledge, specifically within chemistry and chemical education. That bold move led to a series of events that would shape his engineering career, including publishing his undergraduate research with his friend and longtime mentor, the late George Bodnar, emeritus professor of chemistry.

"Dr. Bodnar believed in me more than I believed in myself," Klobuchar says. "That feeling has been a source of unparalleled energy and inspiration for me throughout my career. As a leader, seeking to recreate this feeling in others is the single most important thing I can do as an executive today."

As executive vice president and chief strategy officer for Merck, Klobuchar leads the advancement and execution of the company's strategy, with additional responsibility for business development and information technology. Prior to this role, he was senior vice president and finance lead for Merck Research Laboratories, the company's research and development organization.

He began his career at Merck in 1998 as a synthetic process development engineer supporting new pipeline candidates within Merck Research Laboratories and has since held key technical, operational and financial roles across several areas of the company.

Klobuchar's advice to students: "Personal discomfort is always the necessary precursor to real self-development. Don't be afraid to move toward discomfort and fight the inherent tendency to run. Live within this margin of discomfort. It will accelerate your development, both professionally and personally."

Kyle P. Kostroski

BSChE 2004 | PhD 2008

Vice President, Engineering, Prioritization and Planning | BP

For his development of forward-thinking strategies to transform the energy industry's efforts to address the need for secure, affordable and lower carbon resources.

KYLE P. KOSTROSKI began his engineering education as a high schooler, working in his parents' machine tool rebuilding company in Racine, Wisconsin. He enrolled at Purdue intending to pursue electrical engineering, but a knack for process engineering changed his mind. After earning his bachelor's in chemical engineering, he remained at Purdue for his graduate studies, completing a PhD under Phillip Wankat, Distinguished Professor Emeritus of Chemical Engineering.

Now, as vice president for BP's engineering portfolio, Kostroski is accountable for prioritization of activities, integrated resource planning and delivery of financial and operational performance objectives. He joined BP in 2008 as a research engineer supervising plant technicians and was part of a team recognized with BP's Helios Award — the company's highest honor — for improving delayed coker reliability at the Whiting, Indiana, refinery.

During his 15 years at BP, Kostroski has held a number of roles of increasing responsibility in the technical, commercial and operations areas of the company's downstream. As a company executive, Kostroski leads a team responsible for optimizing the use of BP's most senior and distinct engineering capability group in group engineering to support global business in hydrocarbons production and refining, hydrogen and carbon capture, onshore and offshore wind, electrical vehicle charging, biofuels and more.

Through it all, he reflects on how his time at Purdue shaped his professional path.

"My Purdue chemical engineering experience taught me resilience in the face of a challenge," Kostroski says. "This, along with humility and grit, has helped me become a successful engineer and effective leader."

Amy L. Roth

BSChE 1992

Vice President, Environment Health and Safety | Terra-Gen, LLC.

For her commitment to sustainability and reducing the carbon footprint by providing clean, reliable and affordable energy to communities across the United States.

AMY L. ROTH recalls sitting in a freshman lecture hall during her first day of classes. The professor told students to "look around because at the end of the semester, two-thirds of the people in this room will be gone." When winter break rolled around, the students sitting on either side of Roth were, in fact, gone.

Roth persevered through an honors curriculum, even when she found the advanced engineering coursework in her junior and senior years to be much more challenging.

"An engineering degree is like a badge, I take it with me everywhere," Roth says. "As a woman with an engineering degree from Purdue, doors were opened for me that would not have been opened otherwise. A Purdue engineering degree shows that you are smart, committed and disciplined."

As vice president of health and safety at Terra-Gen, LLC, a renewable energy company focused on developing, owning and operating utility-scale wind, geothermal and solar generation, Roth is responsible for the company's environmental permitting and compliance, health and safety and environmental, social and governance (ESG) reporting.

Prior to joining Terra-Gen in March 2023, she was vice president of regulatory oversight for E&B Natural Resources, a private California-based oil and natural gas production company. She began her career at BP where she was selected for and participated in the company's leadership development program and successfully completed a four-year international assignment based in London.

PAST RECIPIENTS

2022
Irene Binash
Patricia Herndon
Harold Wright

2021
Pedro Arce
Rahul Kasat
Kevin McCarter
Diana Tucker Harrison

2020
John F. Babbitt, Jr.
Robert M. Davidson
Robert F. Walsh III
Dennert O. Ware
Xiaoping Yang

2019
Mitchel Papanicolas
Craig Smith
Kristin Thunhorst

2018
Stephen R. Cornell
Prasenjeet Ghosh
Marcy Ziek

2017
David H. Li
William C. Nelson

2016
Christopher N. Bowman
Steven D. Perry
Kimberly K. Underhill

2015
Norm Kidder
John Klier
Seung Bin Park
Julia Myers Ross
Charles E. Smith
Vijay Swarup

2014
Richard Korsmeyer
Rob Crane
Jefferson C. Lievense
Stephen R. Murrill

2013
Jennifer Sinclair Curtis
Ronald Unnerstall

2012
Kristi Anseth
William Clark
Bruce Dale
Marilyn Glenn Forney
Gregory Lewis
Richard Narta
Steven Swanson

2011
James Hoover
Gerald Skidmore

2010
Norman Gilsdorf
William Greer
Harold Igdaloff
Peter Kraemer

2009
Henry Sampson
Mary Ellen Weber

2008
Antonios Mikos
Gary Poehlein
Roberta Gleiter

2007
Pierre Latour
Duncan Mellichamp

2006
Michael Ladisch
James Rust
James Stake

2005
Charles Davidson
Robert Weist
Arindam Bose

2004
Joseph S. Alford, Jr.
Susan Hardman
Rick Roberts
Lloyd Robeson

2003
Paul Dickensheets
Ben Lipps Jr.
Tom Maliszewski

2002
Michael Graff
Donald Lamberson
Michael Ott
Nicholas Peppas
Ellen Tobias

2001
Max Downham
Donald Dunner
Jeffrey Hemmer
Jay Ihlenfeld
Brian Stutts

2000
Robert Davis
Abbie Griffin
Robert Hannemann
Robert McNeeley

1999
Todd Gehr
Stanley Gembicki
Richard Grabham
Emily Liggett
David Pershing

1998
Guy Camarata
Charles Kline

1997
Frank Becker
Andrew Crowe
Eleftherios Papoutsakis

1996
Robert Buckman
Ching-Tien Lio
David Rea
Thomas Storer
S. Margaret Willoughby

1995
R. William Eykamp
Che-I Kao
Craig McLaughlin
William Smith

1994
Deborah Grubbe
Richard Hazleton
Lowell Koppel
Philip Krug
John Lillich
Joe Stewart
William Young

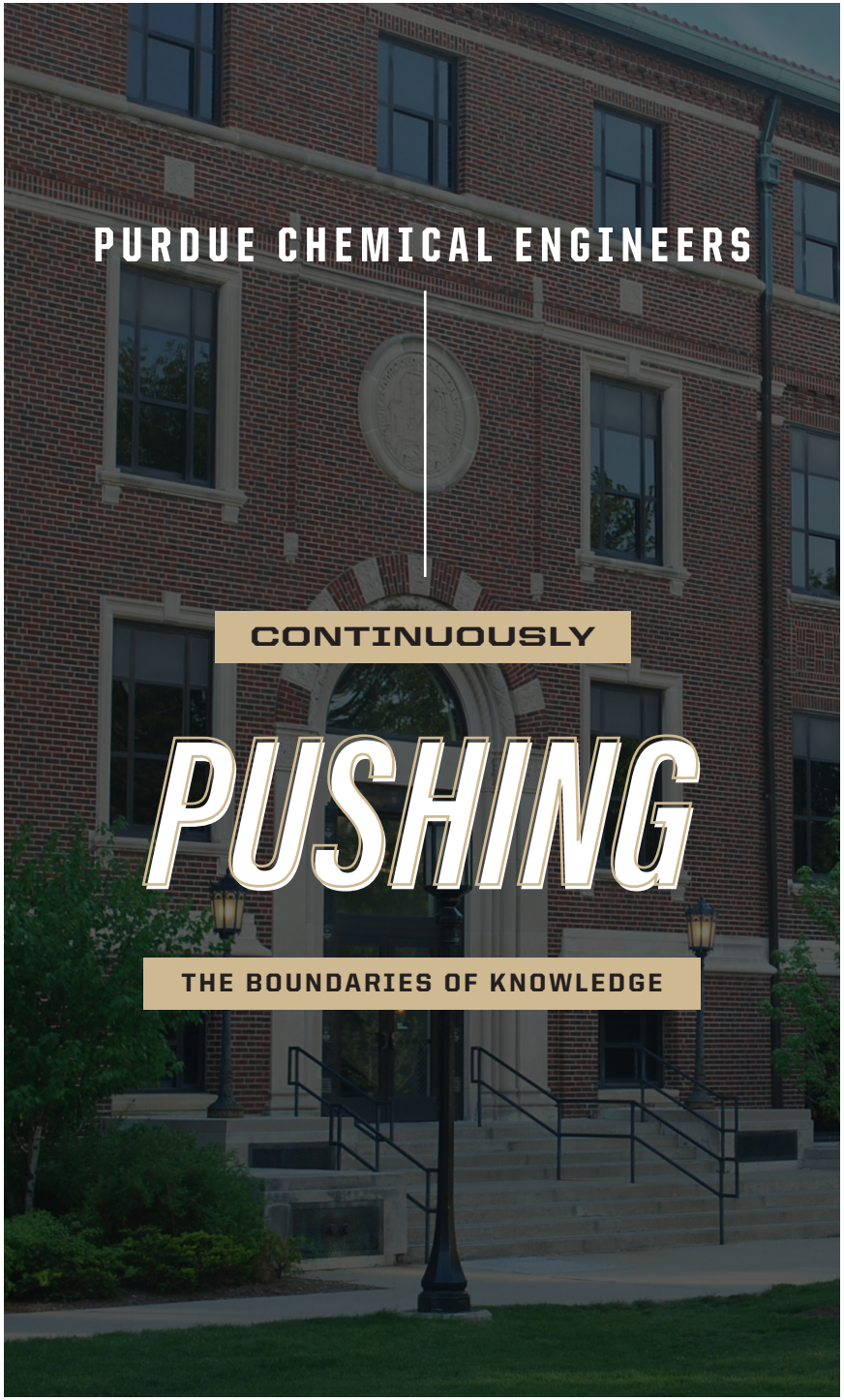
1993
S. George Bankoff
William Bares
Andrew Barnes
Robert Beche
Donald Brophy
Bernard Butcher
John Ciborski
Alexander Clarke
Robert Covalt
Robert Forney
Robert Gadomski
Bruce Gonse
Frederick Haas
William Harris Jr.
James Henderson
John Hesselberth
Thomas Hodgson
John Horner
Harold Hunsicker
Roberto Lee
A. W. Lutz
John Lux
J. Timothy McGinley
Roger Moser
Gordon Mounts
Randall Murill Jr.
Paul Oreffice
Donald Orr
Michael Ramage
Henry J. Ramey Jr.
Robert Reid
Harold Ritchey
John Roorda
Samuel Salem
Dave Schornstein
James Schorr
Yen-Ping Shih
John Siegesmund
Edward Steinhoff
Miller Swaney
Joseph Temple Jr.
Francis Theis
Vern Weekman
Maynard Wheeler
Robert Wheeler
Robert Winslow
William Wishlinski
Jamie Wisniak

1992
Alan Fox
Robert LaFortune

1991
Donald Hannemann
Linda Huff
Rohit Khanna

1990
William Madar
Robert Postlethwait
Norman Pruitt

1988
Albert Bernard
Robert Bringer
Robert Henson
William Schmitt



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