

**Joseph Powell**  
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Dr. Joseph Powell has been Shell's Chief Scientist of Chemical Engineering since 2006. Dr. Powell joined the Chemical Development Department at Shell's Technology Center Houston in 1988 and has led major R&D programs in process chemicals, biofuels, enhanced oil recovery, and related energy topics. He is currently a Fellow of the American Institute of Chemical Engineers (AIChE). Dr. Powell has been granted more than 70 patents with an estimated 50 applications pending, and has received several industry awards including the A. D. Little Award for Chemical Engineering Innovation (AIChE 1998), U. Wisconsin College of Engineering Distinguished Achievement Award (2009), and AIChE Process Development Division Service Award (2012). He is co-editor and chapter author for the book *Sustainable Development in the Process Industries: Cases and Impact*, John Wiley & Sons, New York (2010), and has served AIChE in various roles. He currently serves on the U.S. National Academy Board on Chemical Sciences and Technology and the editorial committee of the *Annual Review of Chemical and Biological Engineering*, and was elected to the Board of Directors of AIChE (2016). Dr. Powell obtained his Bachelor of Science in Chemical Engineering from the University of Virginia in 1978, and a Ph.D. in Chemical Engineering from the University of Wisconsin-Madison in 1984.