

Session: Keynote address
Presentation by: Erik Hagberg,
Archer Daniels Midland Company (USA)

Title: **Development of a portfolio of bio-based monomers for the polymer industry**

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Curriculum:

Dr. Erik C. Hagberg joined the Archer Daniels Midland Company (ADM) in 2007 as senior research scientist after holding several positions at GE Plastics and IBM. He obtained a PhD in Organic Chemistry (2003, Iowa State university) and a B.A. (1998, Gustavus Adolphus College, Minesota). He is currently manager Process Chemistry and Industrial Applications at ADM. He leads a multidisciplinary group of 19 reports located in Decatur IL and Montreal QC, and coordinates external application development projects at universities and contract research partners.

Erik was the GE Plastics representative to the ASC POLY division Industrial Advisory Board, (2005-2007), co-organized the symposium Natural and Renewable Polymers at the 245th ACS National Meeting, New Orleans, LA (2013) and the symposium Putting Renewable Polymers to Work at the 249th ACS National Meeting, Denver, CO (2015) and was Secretary of the Industrial Advisory Board for the NSF Center for Bioplastics and Biocomposites (2014-2015). He is currently a member of the American Chemical Society (since 1998), the ADM representative to the ACS POLY division Industrial Advisory Board (since 2008) and Vice Chair of the Industrial Advisory Board for the NSF Center for Bioplastics and Biocomposites, (since 2015). He is (co-)author of more than 25 issued patents, a further 23 published patent applications, and over 30 peer reviewed scientific publications.

Abstract:

The U.S. chemical industry has undergone significant change in the past two decades. Many companies have moved production off shore to be closer to the raw material supply. New opportunities exist for producing chemicals from domestic renewable resources Archer Daniels Midland has made a strong commitment to the development of new technologies and chemicals for commercial production from agricultural resources. ADM strength is derived from its integrated sourcing, transporting, processing, transforming and distribution networks. This presentation will discuss the opportunities, challenges and commercial efforts being undertaken by ADM to expand its portfolio in the chemical market segment. The role of chemicals from renewable materials in the revitalizing the global chemical industry will also be discussed.