



Faculty of Applied Science
CHEMICAL ENGINEERING



“Innovation in Support of Biofuels”

Michael Grady

Dupont, Wilmington, Delaware

Thursday, March 11, 9:30am

Dupuis Hall, Room 217

BIO

Dr. Michael C. Grady is a polymer reaction engineer with DuPont Performance Coatings. His work focuses on resins and resin processes for the Automotive OEM and Refinish markets. He holds a BSc in Chemical Engineering from Drexel University, an MSc in Chemical Engineering from the University of Pennsylvania, and an ScD in Chemical Engineering/Material Science from Eidgenossische Technische Hochschule, Zurich, Germany. Dr. Grady is also an Adjunct Professor of Chemical Engineering at Drexel and Rowan Universities, where he teaches a variety of topics in chemical engineering.

ABSTRACT

An overview of the growing bio-based economy with a focus on DuPont's efforts in BioFuels will be presented. Current ethanol production from corn and sugarcane are being driven by farming yield improvements but long term, more extensive replacement of petroleum fuel with biofuels will involve cellulosic feedstock. The use of cellulosic feedstock will require biotechnology to design microorganisms capable of their consumption and production of a range of molecules that serve as biofuels and biochemicals. This talk will focus on DuPont's efforts in cellulosic ethanol and biobutanol. Key aspects of the advantages of these programs will be discussed.