

“Designing Heterogeneous Catalysts for the Selective Conversion of Biomass in the Liquid Phase”

171 Durham, November 10th, 2016 at 11:00 a.m.



Dr. Jean-Philippe Tessonier,
Department of Chemical and Biological Engineering,
Iowa State University

Liquid phase reactions play a central role in biomass conversion, for example to convert carbohydrates to biorenewable chemicals. In many cases, performing these reactions in aqueous media would offer significant technical, environmental, and economic advantages over transformations in organic solvents. However, water and the impurities commonly found in technical biomass promote the irreversible degradation of conventional oxide catalysts and catalyst supports through solvent-induced phase transitions and dissolution. One strategy to overcome these barriers consists in re-engineering the conversion pathways. In this presentation, we will discuss two examples that demonstrate the potential of this strategy and its relevance in the emerging biorenewable chemical industry.

If you plan to attend, email a question to bellinda@iastate.edu and the speaker will answer your question!



Chemical and Biological Engineering

2016-2017

www.cbe.iastate.edu/events

IOWA STATE UNIVERSITY
Department of Chemical and Biological Engineering

Graduate
Seminar
Series