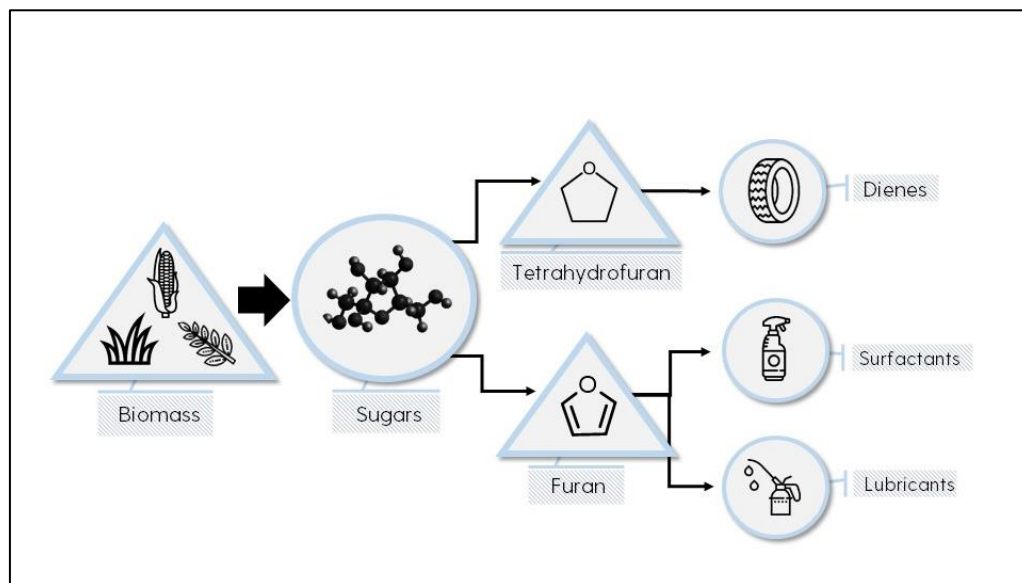


# Catalysis Center for Energy Innovation (CCEI)

Dionisios G. Vlachos (University of Delaware); Class: 2009-2022

**MISSION:** To advance the catalysis science of complex systems with a focus on thermocatalytic transformation of lignocellulosic (non-food-based) biomass into chemicals and transportation fuels.



<https://www.ccei.udel.edu/>

## RESEARCH PLAN

Development of multifunctional, multiscale materials for enhanced energy efficiency by integrating kinetics and catalysis, synthesis of new and model materials with tailored architectures, development of imaging and operando spectroscopic techniques for characterizations, and multiscale computations.