

New England Catalysis Society
Spring Meeting Agenda
May 24, 2018
Worcester Polytechnic Institute

The meeting will be held at Salisbury Labs 104 at Worcester Polytechnic Institute. Parking is available in the parking garage below the athletic field, accessible via Park Avenue. See attached map for details of both locations. The final page of this PDF contains a parking permit; **print out this permit and display it on your dashboard** when parking in this lot.

8:30 Registration

9:00 Welcome and introduction

9:05 **Supported Metal Clusters under Reaction Conditions**

Satish Kumar Iyemperumal, Tom Fenton, Gonghu Li, and N. Aaron Deskins

9:30 **Adsorptive Desulfurization of 4,6-Dimethyldibenzothiophene on Bimetallic Mesoporous Y Zeolites: Effect of Cu and Ce Composition and Configuration**

Kevin X. Lee, George Tsilomelekis, Stavros Karakalo, Julia A. Valla

9:55 **Generating Schwarzites (Ordered Microporous Carbons) via Zeolite-templating**

Efrem Braun

10:20 Break

10:45 **Face-centered Tetragonal Pt Alloys as Potential Catalysts for Oxygen Reduction**

Shubham Sharma, Cheng Zeng, Andrew A. Peterson

11:10 **Electrochemical Promotion of Catalysis: Non-Faradaic Effects of Applied Potential on CO₂ Hydrogenation and Ethylene Oxidation Reactions**

Mark Sullivan, Dimitris Zagoraios, Costas Vayenas, Yuriy Román-Leshkov

11:35 **Implication of e-Scavenging Character of Sulfated Titania for Photocatalysis**

Akbar Mahdavi-Shakib; Thomas J. Schwartz; Rachel N. Austin; Brian G. Frederick

12:00 Lunch

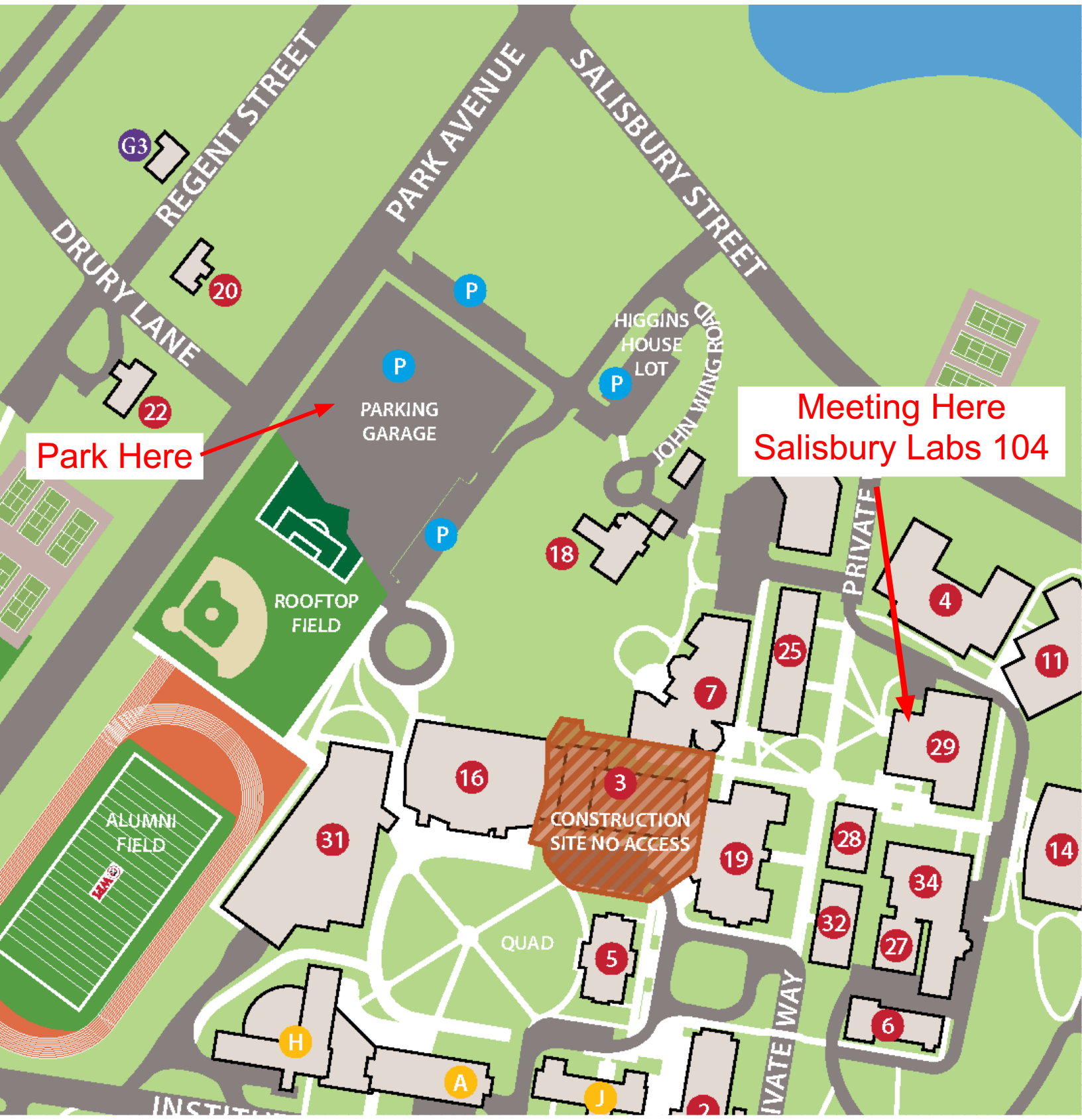
1:20 **Reaction Kinetics Investigation of Ethanol Dehydration and Dehydrogenation Mechanisms over a Model Oxide Catalyst**

Hussein T. Abdulrazzaq, Thomas J. Schwartz

1:45 **Controlling Regioselectivity in Heterogeneously Catalyzed Aldol Reactions**

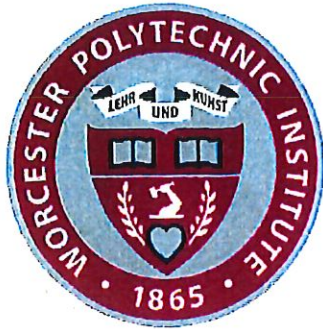
Koushik Ponnuru, Jinesh C. Manayil, Hong Je Cho, Wei Fan, Karen Wilson, and Friederike C. Jentoft

- 2:10 Poster session
- 3:10 **Phosphoric acid catalysts for p-Xylene Production from 2,5-Dimethylfuran and Ethylene: The Effect of Zeolite on Phosphorus Dispersion**
Jason Gulbinski, Wei Fan
- 3:35 **Influence of Confinement in Pores of M1 Phase Mixed Oxides on Selective Oxidative Dehydrogenation of Ethane**
Leelavathi Annamalai, Yilang Liu, Sopuruchukwu Ezenwa, Yanliu Dang, Steven L Suib, Prashant Deshlahra
- 4:00 **Understanding Zeolite Growth by Continuous Zeolite Crystallization**
Andrew Teixeira
- 4:25 Close



Park Here

Meeting Here
Salisbury Labs 104



WPI

SPECIAL GUEST PARKING

FOR: Chemical Engineering

DATE: 5/24/18

**LOT: VISITOR
PARKING LOTS**

*** PLACARD MUST BE VISIBLE ON DASHBOARD ***

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