

2017 PSCC Campus Sustainability Summit



CTECH Living Lab for Mobility Innovation: Transportation Workshop

Monday December 4, 2017

10:15-11:45 A.M.

Biotechnology Building Room 130

Zoom Meeting Link: <https://cornell.zoom.us/j/102392527>

The Center for Transportation, Environment, and Community Health (CTECH), <http://ctech.cee.cornell.edu/>, pursues research and innovation to support sustainable mobility of people and goods while preserving the environment and improving community health. It leverages behavioral and economic sciences, epidemiology, information technology, and environmental and transportation sciences and technologies to address critical issues falling under the FAST Act's priority area of Preserving the Environment: greenhouse gas reduction, use of alternative fuels and energy technologies, environmentally responsible planning, and impacts of freight movement. Through multi-level, multidisciplinary and institutional collaborations, CTECH will advance transportation sustainability in its broader human and environmental contexts.

Agenda

10:15-10:30 A.M. Introduction

Opening Remarks:

Bridgette Brady, Senior Director of Cornell Transportation and Mail Services
CTECH Living Laboratory for Mobility Innovation towards Carbon-Neutral Cornell
H. Oliver Gao, Director CTECH

Why Target Transportation?

Jared Hibshman, CTECH Living Laboratory Student Project Coordinator

10:30-11:30 A.M. CTECH Living Lab Student Project Presentations (8 minutes each)

Biodiesel Engine Feasibility Project

Gregory Brumberg and Manisha Kunala of Engineers for a Sustainable World:
Biofuels

Electric Vehicle Charging Stations

Srajal Raizada, Apurti Marodia, Srajan Shetty, Bakulesh Singh, and Simon Yu

Electrifying Cornell Fleet

Nilesh Deshpande, Ye Lin Kim, JD Paff, and Daniel Sachs

Optimization of Cornell EV Rental

Yue Wang

Mini Electric Shuttle System

Zelin Linghu, Yingqing Chen, Ran Gao, Siran Jia, and Chenxi Yang

Simulation, Modeling, and Optimization Tools for Transit Network Design

Robert Gurnee

11:30-11:45 A.M. Open Discussion