

Improving Last-mile and 50 Feet Logistics with Smart Initiatives to Improve Freight Mobility

Walter E. Washington Convention Center 144C

Sunday, January 12th, 2020

1:30pm-4:30pm

Evangelos I. Kaisar, PhD, Florida Atlantic University, presiding

Charles H.W. Edwards, North Carolina Department of Transportation, presiding

The workshop will identify innovative strategies to facilitate “last 50 feet” delivery challenges and evaluate operational changes or technology applications which support the timely flow of freight.

Living in a fast-developing consumer society requires that advances in freight operations are going to be sustainable solutions for the future. The workshop will address the “last-mile” critical issues affecting freight industry participants, planners and policy makers. Topics include fulfillment location optimization, shared delivery options, dynamic routing employing big data and smart active freight mobility.

The involvement of speakers and participants from academia, federal and state agencies and industry will ensure a multidimensional discussion. Participants will engage with each other on urban freight topics in a participatory way by actively discussing research needs. Towards the end of the workshop a facilitated prioritization will be conducted to identify the most urgent needs in freight transportation related to the strategies and technology developed for “last 50 feet” deliveries and logistics terminals and a wrap-up and question session on the next steps for getting highest-priority projects into the research pipeline.

A special thanks to our sponsors:

Standing Committee on Freight Transportation Planning and Logistics (AT015)

Standing Committee on Urban Freight Transportation (AT025)

Freight Mobility Research Institute (FMRI)

Agenda

1:30 pm – 1:35 pm Welcome and Overview of Workshop

Dr. Evangelos I. Kaisar, FAU & Mr. Charles H.W. Edwards N.C. DOT

1:35 pm -2:50 pm Last Mile and Smart Initiatives

Analyzing the Competitiveness and Sustainability of Autonomous Delivery Vehicles in Urban Areas

Dr. Miguel Figliozzi, Portland State University

Re-introducing Portering to London: Concept to Reality

Dr. Tom J. Cherrett, University of Southampton

Understanding Faster and Faster Deliveries: Traditional Facility Location Problems and New Delivery Technologies and Services

Dr. Miguel Jaller Martelo, University of California, Davi

Energy Impacts of Using Drones and Alternative Last-Mile Delivery

Victor Walker, Idaho National Laboratory

2:50 pm -4:20 pm Delivering Goods, E-commerce

On- Demand Instant Delivery Services Around the World

Dr. Laetitia Dabanc, University of Paris – East

Tapping Into Autonomous Mobility-on-Demand Spare Capacity to Move Parcels, How Much Freight Can be Moved? Are Passengers Affected?

Dr. Andre Romano Alho, Singapore MIT

Citywide Impacts of E-Commerce:

Does Parcel Delivery Travel Outweigh Household Shopping Travel Reductions?

Monique A. Stinson, Argonne National Laboratory

Urban Freight and Road Safety in the Era of e-commerce

Dr. Noreen C. McDonald, University of North Carolina at Chapel Hill

Viewing Last-mile Delivery Behavior through an Economics Lens

Peter Plumeau, President and CEO at EDR Group Boston

4:20 pm – 4:30 pm Research Prioritization Discussion

Dr. Evangelos I. Kaisar, FAU & Mr. Charles H.W. Edwards N.C. DOT