

Delivering Sustainability: Transporting Goods in Urban Environments

Anne Goodchild, PhD
Associate Professor
Civil and Environmental Engineering
University of Washington

Abstract: In this talk, Professor Goodchild will discuss the challenges to moving goods in sustainable cities; both from the perspective of the infrastructure provider, and the delivery company. As city populations grow and become more congested, consumers are also requesting more home delivery services; what will the net effect be on greenhouse gas emissions, local pollutants, and travel demand? To answer these questions, Dr. Goodchild will present results from simulated logistics systems capturing a range of business models and shopping behavior including drone delivery. The results show that while delivery services may provide an opportunity for travel and emissions reductions, consumer behavior may prevent these opportunities from being exploited. Dr. Goodchild will discuss the role of technology innovations and policy actions in influencing system outcomes.

Bio: *Anne Goodchild* is the Allan and Inger Osberg Endowed Associate Professor in Civil and Environmental Engineering at the University of Washington. She is an international freight and logistics expert, currently serving as chair of the Transportation Research Board's Freight Group. She joined the UW faculty in December 2005 after completing her PhD at UC at Berkeley. Her research addresses the nexus of private and public actors and infrastructure in the movement of goods. Recent research has evaluated the impact of changing shopping and delivery patterns, CO₂ emissions in strategic routing and schedule planning in urban pick-up and delivery systems, logistics sprawl, and the relationship between freight activity and the economy. Dr. Goodchild is the Director of the Supply Chain Transportation and Logistics Center and the Supply Chain Transportation and Logistics Online Master's Program. Before attending Berkeley she worked in consulting for 5 years in Europe and North America, for PricewaterhouseCoopers LLP and Applied Decision Analysis Inc., modeling business problems.

Tuesday, November 15, 2016

1:30 – 2:20 p.m.

MEB 235