Transportation Center Seminar Series presents.....

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“CITY LOGISTICS”

Thursday – Feb. 4, 2010
4:00 - 5:00 pm
Refreshments available at 3:30 pm

Location:
Transportation Center –Lower level
Northwestern University
Chambers Hall - 600 Foster
Evanston, IL

Abstract: City Logistics aims to reduce the nuisances associated to freight transportation in urban areas while supporting their economic and social development. The fundamental idea is to view individual stakeholders and decisions as components of an integrated logistics system. This implies the coordination of shippers, carriers, and movements, as well as the consolidation of loads of several customers and carriers into the same environment-friendly vehicles. City Logistics explicitly aims to optimize such advanced urban transportation systems. The first part of the seminar is dedicated to an overview of City Logistics concepts, models, and applications addressing, in particular, feasibility and sustainability issues. The second part targets planning issues and presents recent work on tactical planning for two-tier City Logistics systems, which appear appropriate for large cities, in particular models to select, route and schedule services, vehicles, and loads.

Bio: Teodor Gabriel Crainic obtained his Ph.D. in Operations Research at the Université de Montréal in 1982. He is Professor of Operations Research, Transportation, and Logistics and the NSERC Industrial Research Chair in Logistics Management, School of Business Administration, Université du Québec à Montréal. He is member of CIRRELT (he served as Director of the Centre for Research on Transportation from 1991 to 1999) and Director of its Intelligent Transportation Systems Laboratory. Professor Crainic also holds honorary positions of Adjunct Professor with the Department of Computer Science and Operations Research, Université de Montréal, Canada, and the Institute of economics, Molde University, Norway. He is a member of the Royal Academy of Canada and received the 2006 Merit Award of the Canadian Operational Research Society. He currently serves as President of the Transportation Science and Logistics Society of INFORMS.

The research interests of Professor Crainic are in network and combinatorial optimization, meta-heuristics, and parallel computation. The main application areas are transportation, logistics, and telecommunications system planning, management, and operations. He authored or coauthored over 130 scientific articles. He coauthored a method and software for strategic planning of multimodal multicommodity transportation systems used by planning institutions in several countries, and a combinatorial e-auction mechanism for transportation markets.