May 30–31, 2013
National Academy of Sciences Building
2101 Constitution Avenue, NW
Washington, D.C. 20418

Organized by
European Commission
Research and Innovative Technology Administration, U.S. Department of Transportation
Transportation Research Board
## Planning Committee

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
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<tr>
<td>C. Michael Walton</td>
<td>The University of Texas at Austin, <em>Chair</em></td>
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<tr>
<td>Alan C. McKinnon</td>
<td>Kühne Logistics University, Germany, <em>Vice Chair</em></td>
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<td>Christopher G. Caplice</td>
<td>Massachusetts Institute of Technology</td>
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<td>Laetitia Dablanc</td>
<td>Institute of Science and Technology for Transport, Development, and Networks, France</td>
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<td>Genevieve Giuliano</td>
<td>University of Southern California</td>
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<td>Marcel Huschebeck</td>
<td>PTV AG, Germany</td>
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<td>Lanfranco Senn</td>
<td>Bocconi University, Italy</td>
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<td>Chelsea C. White III</td>
<td>Georgia Institute of Technology</td>
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## Liaisons

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<tr>
<th>European Commission</th>
<th>Alessandro Damiani</th>
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<td></td>
<td>Marcel Rommerts</td>
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<td>Frank Smit</td>
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<td>Maria-Cristina Marolda</td>
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| Research and Innovative    | Kevin Womack                                                 |
| Technology Administration   | Thomas Bolle                                                 |
|                             | Alasdair Cain                                                |

| Transportation Research    | Robert E. Skinner, Jr.                                       |
| Board                      | Mark R. Norman                                               |
|                            | Thomas M. Palmerlee                                          |
|                            | Martine A. Micozzi                                           |
|                            | Jaclyn Hubersberger                                          |
City Logistics Research: A Trans-Atlantic Perspective

This event is the first of four annual symposia to be conducted between 2013 and 2016, with two to be held in the United States and two to be held in Europe. The first symposium, scheduled for May 30–31, 2013, will be held at the National Academy of Sciences headquarters building in Washington, D.C.

The symposium will assemble U.S. and European researchers to discuss and compare ongoing transportation research in specific topic or theme areas. These in-depth discussions among researchers are intended to facilitate communication and incubate a culture of collaboration among the researchers. In addition, the symposia are expected to promote efficiencies and synergistic efforts within the international transportation research community, while accelerating transport-sector innovation in Europe and the United States.

This first symposium will focus on the transport of goods in urban areas. A bilateral planning committee has been convened to develop the symposium agenda, select and invite speakers and discussants, and commission overview papers as needed. A designated rapporteur will prepare an individually authored summary of the event.

The four symposium topic sessions include:

- **Demand Patterns and Trends** (Chris Caplice and Laetitia Dablanc)
- **Schemes and Technologies for Enhancing Urban Distribution** (Marcel Huschebeck and C. Michael Walton)
- **Terminals and Hubs: Impacts and Strategies** (Genevieve Giuliano and Lanfranco Senn)
- **Logistics Efficiency in Urban Areas** (Alan McKinnon and Chip White)
## Program at a Glance

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<th>THURSDAY, MAY 30, 2013</th>
<th>FRIDAY, MAY 31, 2013</th>
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<td>7:15 a.m.–8:00 a.m.</td>
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<td>Continental Breakfast</td>
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<td>8:00 a.m.–8:30 a.m.</td>
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<tr>
<td>Welcome and Introductory Remarks</td>
<td>Review of Day 1</td>
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<td>Meyer</td>
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<td>8:30 a.m.–9:30 a.m.</td>
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<td>Presentation of Commissioned White Papers</td>
<td>Terminals and Hubs: Impacts and Strategies</td>
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<td>Caplice/Dablanc</td>
<td>Giuliano/Senn</td>
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<td>9:30 a.m.–10:00 a.m.</td>
<td>10:30 a.m.–11:00 a.m.</td>
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<td>Break</td>
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<td>10:00 a.m.–12:30 p.m.</td>
<td>11:00 a.m.–12:00 p.m.</td>
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<tr>
<td>Demand Patterns and Trends</td>
<td>Logistics Efficiency in Urban Areas, Part I</td>
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<td>Caplice/Dablanc</td>
<td>McKinnon/White</td>
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<td>12:30 p.m.–1:30 p.m.</td>
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<td>Lunch</td>
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<td>1:30 p.m.–4:00 p.m.</td>
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<tr>
<td>Schemes and Technologies for Enhancing Urban Distribution</td>
<td>Logistics Efficiency in Urban Areas, Part II</td>
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<td>Huschebeck/Walton</td>
<td>McKinnon/White</td>
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<td>4:00 p.m.–4:30 p.m.</td>
<td>2:30 p.m.–3:00 p.m.</td>
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<tr>
<td>Break</td>
<td>Review of Day 2</td>
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<td>4:30 p.m.–6:00 p.m.</td>
<td>3:00 p.m.–3:30 p.m.</td>
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<tr>
<td>Open Forum on Cross-Cutting Issues</td>
<td>Summary of Findings and Opportunities for Collaboration</td>
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<td>6:00 p.m.–7:00 p.m.</td>
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<td>Welcome Reception</td>
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Symposium Agenda

All food and beverage functions are hosted by TRB.

Thursday, May 30, 2013

7:15 a.m. Continental Breakfast, East Court

8:00 a.m. Welcome and Introductory Remarks, Lecture Room

Robert E. Skinner, Jr., Transportation Research Board, presiding

The introductory session will feature remarks by the Transportation Research Board's Executive Director, the European Commission Directorate–General for Research and Innovation, and the U.S. Department of Transportation's Research and Innovative Transportation Administration. It will also introduce the Chair of the planning committee, C. Michael Walton from The University of Texas at Austin, Vice Chair Alan C. McKinnon from Kühne Logistics University in Hamburg, Germany, and the six other committee members from Europe and the United States.

Recognition of Planning Committee Members
C. Michael Walton, The University of Texas at Austin

Welcome from the European Commission
Alessandro Damiani, European Commission Directorate–General for Research and Innovation

Welcome from the U.S. Department of Transportation
Kevin C. Womack, Research and Innovative Technology Administration

8:30 a.m. Presentation of Commissioned White Papers, Lecture Room

Alan C. McKinnon, Kühne Logistics University, presiding

Synthesis of Freight Research in Urban Transportation Planning: Comparison of Effectiveness and Potential for Transferability
Laetitia Dablanc, Institute of Science and Technology for Transport, Development, and Networks
Genevieve Giuliano, University of Southern California

State-of-the-Practice in Urban Freight Transport Research
Michael Browne, University of Westminster
Anne V. Goodchild, University of Washington

Discussion and Q&A

9:30 a.m. Break, East Court

10:00 a.m. Demand Patterns and Trends, Lecture Room

Christopher G. Caplice, Massachusetts Institute of Technology, and Laetitia Dablanc, Institute of Science and Technology for Transport, Development, and Networks, presiding

This session will explore aspects of freight transportation demand, including pick-up and delivery, in an urban environment from the perspectives of the ultimate consumer (residents), retail outlets, and the local governments or metropolitan planning agencies. Logistics and freight transportation are derived activities in that they exist only to satisfy demand for services and products. This session investigates the complex and often conflicting factors that influence demand for freight in densely populated urban areas.
Freight Demand Generation: The State of Research in Europe and the United States

**French Cities’ Urban Freight Surveys**
Jean-Louis Routhier, Laboratory of Transport Economics, France

**U.S. Cities’ Urban Freight Surveys**
Miguel Jaller, Rensselaer Polytechnic Institute

**Shifts and Trends in Urban Retailing and Buying Behavior**
Robert Chumley, 7-Eleven

**Synthesis and Summary**
Laetitia Dablanc, Institute of Science and Technology for Transport, Development and Networks

12:30 p.m.  **Lunch, Great Hall**

1:30 p.m.  **Schemes and Technologies for Enhancing Urban Distribution, Lecture Room**
Marcel Huschebeck, PTV AG, and C. Michael Walton, The University of Texas at Austin, presiding

This session will explore how innovative schemes and technologies are enhancing freight logistics in urban areas. Presentations will examine case studies of innovation regarding the movement of freight in the public and private sectors, impact evaluation, and implementation aspects. A moderated discussion will determine the driving factors for supply measures in Europe and the United States, commonalities and differences in their supply policies, as well as research gaps to be addressed.

**Case Studies of Innovation**
Cathy Macharis, Free University of Brussels

**Impact Evaluation**
Martin Ruesch, RAPP Trans AG, Switzerland

**Implementation Aspects**
Jack Levis, UPS
David Logsdon, Waste Management
Chris Kozak, Wal-Mart

Discussion and Q&A

4:00 p.m.  **Break, East Court**

4:30 p.m.  **Open Forum on Cross-Cutting Issues, Lecture Room**
C. Michael Walton, The University of Texas at Austin, and Alan C. McKinnon, Kühne Logistics University, presiding

This open forum will feature several cross-cutting issues such as research methodologies, academic–industry interfaces in city logistics, data management, and research dissemination.

6:00 p.m.  **Welcome Reception and Networking, Great Hall**
The Welcome Reception and networking will run from 6:00 p.m. to 7:00 p.m. Beverages, as well as a variety of hors d’oeuvres (vegetarian options included), will be served.
Friday, May 31, 2013

7:15 a.m.  Continental Breakfast, East Court

8:00 a.m.  Review of Day 1, Lecture Room

Rapporteur, Andrea Meyer, Working Knowledge, presiding

This review will highlight the main points during the previous day’s presentations and discussions.

8:30 a.m.  Terminals and Hubs: Impacts and Strategies, Lecture Room

Genevieve Giuliano, University of Southern California, and Lanfranco Senn, Bocconi University, presiding

National and international supply chains have many impacts on cities. Trade nodes—i.e., ports, airports, intermodal hubs, distribution centers—tend to be concentrated in large metropolitan areas, which are a notable force on metropolitan spatial organization. The presence of these nodes has both benefits and costs. Economic activity of trade, distribution, and secondary processing generates jobs and contributes to local economic development; on the other hand, these highly concentrated activity nodes generate freight travel demand on highway and rail, accounting for a growing share of air emissions, and detracting from urban livability.

Part 1: Impacts of Terminals and Hubs on Metropolitan Areas

Jean-Paul Rodrigue, Hofstra University
Markus Hesse, University of Luxembourg

Part 2: Strategies for Mitigating Impacts of Terminals and Hubs

Consolidation Hubs and Freight Villages
Thierry Vanelslander, University of Antwerp

Environmental Regulation
Clarence Woudsma, University of Waterloo

Operational Strategies
Thomas O’Brien, California State University, Long Beach

Discussion and Q&A

10:30 a.m.  Break, East Court

11:00 a.m.  Logistics Efficiency in Urban Areas, Part 1, Lecture Room

Alan C. McKinnon, Kühne Logistics University, and Chelsea C. White III, Georgia Institute of Technology, presiding

This session will identify and discuss research topics related to the development of efficient public and private supply chains for the movement of goods in urban environments. This session investigates how to identify efficient and inefficient initiatives

Measuring Efficiency and Inefficiency in Urban Freight Transport
Téodor Gabriel Crainic, Université du Québec à Montréal

Opportunities for Improving Efficiency
José Holguín-Veras, Rensselaer Polytechnic Institute

12:00 p.m.  Lunch, Great Hall
1:00 p.m. **Logistics Efficiency in Urban Areas, Part 2, Lecture Room**

Alan C. McKinnon, Kühne Logistics University, and Chelsea C. White III, Georgia Institute of Technology, *presiding*

This session concludes the session on logistics efficiency in urban areas. It examines barriers and constraints to efficient urban freight transport, such as regulations, infrastructural constraints, sub-optimal land-use patterns, labor market constraints, inadequate reception facilities, and limited operating hours at commercial, industrial, and residential premises. Additionally, it discusses how public policies can change the aforementioned constraints, including financial support for city logistics innovations, variable pricing and tolls for freight transport, investment in urban transport infrastructure, and altering regulatory frameworks.

**Barriers and Constraints**
Birgit Hendriks, Binnenstadservice, Netherlands

**Opportunities for Public Policy Intervention**
Ian Wainwright, Transport for London

**Discussion and Q&A**

2:30 p.m. **Review of Day 2 Lecture Room**

**Working Knowledge**
Rapporteur, Andrea Meyer, Working Knowledge, *presiding*

This will be a recap and will highlight main points during the day’s presentations and discussions.

3:00 p.m. **Summary of Findings and Opportunities for Collaboration, Lecture Room**

Robert E. Skinner, Jr., Transportation Research Board, *presiding*

This facilitated discussion will present a summary of key findings and identify opportunities for collaboration regarding research on urban freight transportation.

3:30 p.m. **Adjournment**