

# FRONTIERS IN TRANSPORTATION: SOCIAL AND SPATIAL INTERACTIONS

Amsterdam, Netherlands  
2-6 July 2005

Satellite Event of the 9<sup>th</sup> International Conference on Computers in Urban Planning & Urban Management

In collaboration with  
World Conference on Transportation Research Society  
Special Interest Group on Transport and Spatial Development  
WCTRS SIG-1

Amsterdam Institute for Metropolitan & International Development Studies, University of Amsterdam  
and Urban Planning Group, Eindhoven University of Technology, Netherlands

Institute of Transportation Engineering, Tsinghua University, Beijing, P.R. China  
School of Geography and Geology, McMaster University, Hamilton, Ontario, Canada  
Department of Geography, Boston University, Boston, Massachusetts, USA

**What do we mean by social and spatial network interactions? And why does it matter? What does it have to do with transportation and urban and regional planning? Why is it (relatively) new? How is treatment thereof different than typical practice? How would it change existing theory?**

The topic of social and spatial interactions is now rapidly gaining interest in transportation research as evidenced by several initiatives to put the topic high on the research agenda. With new and seasoned researchers converging upon the same ideas, the seminar is timely and can benefit from the momentum and stimulate the exchange of ideas in this new field of research.

This seminar aims to pose the following questions:

- *What interactions between social networks, transportation and/or land use is each participant interested in?*
- *Which social and spatial mechanisms do they see at work?*
- *What are their hypotheses about the size and direction of the expected effects?*
- *How do they want to get the data to test for these effects?*
- *How do they want to include these mechanisms in land use/transport models?*
- *What are the implications of social and spatial interactions in terms of transportation policy analysis and urban and regional development?*

The seminar will provide a forum to discuss recent developments, requirements and prospects for methods and theory useful to understand the influence of social and spatial interactions in travel and locational behavior.

Two important outcomes of the seminar are expected to be:

1. The intended organizing of a **publication** with the papers presented during the seminar on this new and emerging topic of transportation and social-spatial interactions, whether that be an edited book volume or a special journal issue
2. The establishing of a **research agenda** on the topic of transportation and social-spatial interactions, and strategizing for a larger-scale international research proposal

## Program

### Saturday, 2 July 2005

- Arrival of participants
- Optional technical excursion to IJburg ([www.ijburg.nl](http://www.ijburg.nl))  
*Guest Expert: Ton Buffing, Municipality of Amsterdam Agency for Traffic, Transport and Infrastructure*



### Sunday, 3 July 2005

Seminar location: *Herengracht 182, Universiteit van Amsterdam*

Each panel presentation will last a maximum of 10 minutes to allow ample time for plenary discussion.

8:00 Registration and coffee/tea

8:45 Welcome and introduction  
by Frank le Clercq, University of Amsterdam, Netherlands

#### 9:00 **Transportation and spatial development I**

*Facilitator: Michael Wegener, University of Dortmund, Germany*

- Yoshitsugu Hayashi, Nagoya University, Japan  
& John Black, University of New South Wales, Australia
- Huapu Lu, Tsinghua University, China
- Michael Wegener & Rolf Moeckel, University of Dortmund, Germany

#### 9:45 **Transportation and spatial development II**

*Facilitator: Yoshitsugu Hayashi, Nagoya University, Japan*

- Paul Waddell, University of Seattle, USA
- Kenji Doi, Kagawa University, Japan
- Dianyue Zhang & Jian Jin, Southwest Jiaotong University, China

\*\*\* 10:30 Morning break \*\*\*

#### 11:00 **Challenges of Large Scale Systems**

*Facilitator: Jianquan Cheng, University of Amsterdam, Netherlands*

- Mark Birkin, University of Leeds, UK
- Doug Hunt, University of Calgary, Canada
- Fabrice Marchal, French National Center for Scientific Research, France

11:45 “Second chances” -- Reflections on social and spatial interactions  
*Round table plenary: All speakers from Morning Day 1*

\*\*\* 12:30 Lunch \*\*\*

## 2:30 Activity-based approaches

*Facilitator: Fabrice Marchal, French National Center for Scientific Research, France*

- Harry Timmermans & Theo Arentze, Eindhoven University of Technology, Netherlands
- Yanwei Chai, Peking University, China
- Dick Ettema, University of Utrecht, Netherlands

## 3:15 Multi-agent based simulation

*Facilitator: Antonio Paez, McMaster University, Canada*

- Elenna Dugundji, University of Amsterdam, Netherlands & Laszlo Gulyas, Hungarian Academy of Sciences, Hungary
- Antonio Paez & Darren Scott, McMaster University, Canada
- Jeremy Hackney, Swiss Federal Institute of Technology, Switzerland

\*\*\* 4:00 Afternoon break \*\*\*

4:30 “Second chances” -- Reflections on social and spatial interactions

*Round table plenary: All speakers from Afternoon Day 1*

5:15 Project planning and development of research agenda

6:00 Canal boat tour with narration on Amsterdam city planning

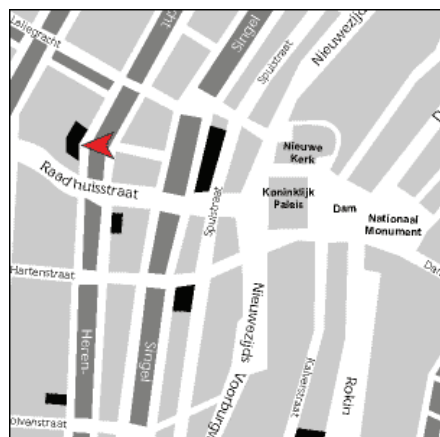
*Guest Expert: Dick Schuiling, University of Amsterdam, Netherlands*

Seminar location:

**Universiteit van Amsterdam**

Herengracht 182

1016 BR Amsterdam



## **Monday, 4 July 2005**

Seminar location: *Herengracht 182, Universiteit van Amsterdam*

8:30 Reception and coffee/tea

8:45 Welcome

by Bert van Wee, Delft University of Technology, Netherlands

### **9:00 Innovative data collection I**

*Facilitator: Kay Axhausen, Swiss Federal Institute of Technology, Switzerland*

- Kay Axhausen, Swiss Federal Institute of Technology, Switzerland
- Eric Miller, University of Toronto, Canada
- Sarah Bush, Comcast, USA

### **9:45 Innovative data collection II**

*Facilitator: Elenna Dugundji, University of Amsterdam, Netherlands*

- Xuewu Chen, Southeast University, China
- Ting Li, Erasmus University Rotterdam, Netherlands
- Sebastian Schnorf, Swisscom, Switzerland

\*\*\* 10:30 Morning break \*\*\*

11:00 “Second chances” -- Reflections on social and spatial interactions

*Round table plenary: All speakers from Morning Day 2*

11:45 Project planning and development of research agenda

\*\*\* 12:30 Lunch \*\*\*

### **2:30 Estimation with endogenous effects**

*Facilitator: Joan Walker, Boston University, USA*

- Varameth Vichiensan, Kasetsart University, Thailand
- Francisco Martinez, University of Chile, Chile
- Elenna Dugundji, University of Amsterdam, Netherlands  
& Joan Walker, Boston University, USA

### **3:15 Spatial behavioral dynamics**

*Facilitator: Xinyu Cao, University of California at Davis, USA*

- Xinyu Cao, University of California at Davis, USA
- Jeroen Struben, Massachusetts Institute of Technology, USA
- Craig Stephan, Ford Motor Company, USA

\*\*\* 4:00 Afternoon break \*\*\*

4:30 “Second chances” -- Reflections on social and spatial interactions

*Round table plenary: All speakers from Afternoon Day 2*

5:15 Project planning and development of research agenda

6:00 Dinner

## Tuesday, 5 July 2005

Seminar location: *Nieuwe Prinsengracht 130, Universiteit van Amsterdam*

8:30 Reception and coffee/tea

8:45 Welcome

by Harry Timmermans, Eindhoven University of Technology, Netherlands

9:00 **Bridging policy and practice**

*Facilitator: Huapu Lu, Tsinghua University, China*

- Loek Kapoen, University of Amsterdam  
& Jan Veldhuisen, Eindhoven University of Technology, Netherlands
- Jianquan Cheng, University of Amsterdam, Netherlands
- Martijn Eskinasi, Atrive, Netherlands

9:45 **Social theory development**

*Facilitator: Theo Arentze, Eindhoven University of Technology, Netherlands*

- Theo Arentze, Eindhoven University of Technology, Netherlands
- Tim Schwanen, Utrecht University, Netherlands
- Donggen Wang, Hong Kong Baptist University, China

\*\*\* 10:30 Morning break \*\*\*

11:00 “Second chances” -- Reflections on social and spatial interactions

*Round table plenary: All speakers from Morning Day 3*

11:45 Break-out theme sessions

\*\*\* 12:30 Lunch \*\*\*

2:30 Reports from Break-out theme sessions

3:15 Next steps

4:00 Closing

## Wednesday, 6 July 2005

- Optional research visit to Delft University of Technology, Netherlands Research School for Transport, Infrastructure and Logistics – TRAIL  
*Hosts: Yu Sen Chen and Serge Hoogendoorn, Delft University of Technology, Netherlands*
- Departure of participants

