Aalto University
School of Science
and Technology

Helsinki Summer School in Transportation
Reason Building for Decision-Making in the Transport Sector
Theories and Practices in Action
Executive Course 7 June – 11 June, 2010

Organized and Administered by
Aalto University School of Science and Technology,
Transportation Engineering
Espoo, Finland

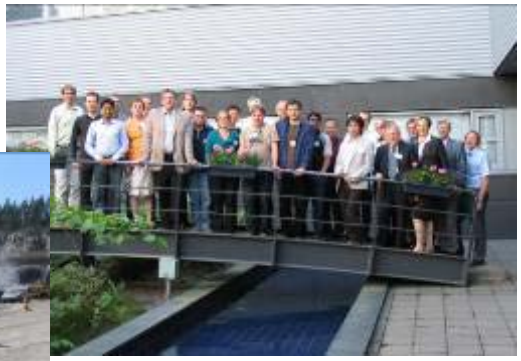
Introduction

The *Helsinki Summer School in Transportation* has established itself as a premier institution offering innovative and practical approaches to understand and solve complex transport problems. This school presents an intensive learning experience to graduate students and mid-career professionals of transport engineering and planning. Following the very successful Summer Schools in past three years, the theme in 2010 will be *Reason Building for Decision-making in the Transport Sector* in the presence of uncertainty and vagueness. Under this theme the Summer School subscribes to the philosophy that transportation decisions encompass a much wider scope than movement of persons and goods, and aim to enhance the intellectual, emotional, and economic wellbeing of citizens. These "good things" need to be carefully examined and weighed in the presence of "bad things" and uncertainty about both. Studying *Reason building in the presence of uncertainty and vagueness* will be a unique experience; both the real world issues and the analytical approaches will be presented by internationally renowned experts.

The Summer School 2010 will take place in June 7-11, 2010 on the beautiful campus of Aalto University School of Science and Technology (formerly Helsinki University of Technology) in Espoo, Finland. The five day course will bring the students of varying backgrounds together to a common theme of handling uncertainty in transportation issues: Uncertainty and Risks; Public Policy and Its Drivers; Climate Change, and Disaster Preparedness; Analytical Approaches to Vagueness and Ambiguity; and Practice in both urban and rural concerns. A field visit to the new Helsinki Harbor at Vuosaari, its significant technical and environmental challenges will augment the class experience. The class includes a team exercise to apply the concept and approaches to the real world transit planning in Helsinki region.

Expected Audience, Tuition and Credits

The Summer School is intended for transportation professionals, managers in transport agencies, transport and traffic engineers, planners, transport consultants, citizen advocates, educators, and graduate students. Expected class size is 40; in the past the participants were from many countries. The registration fee of EURO 500 includes course material and banquet. After April 1, 2009, the fee is EURO 700. The attendees may earn continuation education credits in Aalto University School of Science and Technology (3 ECTS-credits). Scholarships for students are available. The class schedule is in the following page. The Summer School's web page contains registration and other information:
http://civil.tkk.fi/en/research/transportation/helsinki_summer_school_in_transportation/.



Helsinki Summer School in Transportation Program 2010: Reason-Building for Decision-making in the Transport Sector
http://civil.tkk.fi/en/research/transportation/helsinki_summer_school_in_transportation/

	Monday June 7 Theme: Uncertainty, Risk and Ambiguity in Decision-making	**Tuesday June 8** Theme: Public Policy and its Drivers. Climate Change	**Wednesday June 9** Theme: Disaster and Environment Management in Transport Sector	**Thursday June 10** Theme: Vagueness and Ambiguity in Transport Planning	**Friday June 11** Theme: Public Policy Decision-making Practice
9:00-10:30	**Welcome:** Prof Matti Pursula, Executive Dean, Aalto University School of Science and Technology, Finland **Module 1:** Uncertainty, Risk and Ambiguity in Decision-making. Prof. Gert de Cooman University of Gent, Belgium	**Module 3:** The unintended effects of transport policy Dr. Moshe Givoni University of Oxford, UK	**Module 5:** Roles of Transportation Sector in Integrated Disaster Risk Management Prof. Hirokazu Tatano Kyoto University, Japan	**Module 7:** Dealing with Ambiguity and Vagueness in Decision-making Prof. Shinya Kikuchi Virginia Tech, USA	**Module 9: Group exercise** Participants will be divided into teams of 5-6 persons to make a proposal for addressing a transport problem using the concepts (Transport problem and its context will be given out on the first day, on Monday)
10:30	Coffee/tea	Coffee/tea	Coffee/tea	Coffee/tea	
11:00-12:15	**Module 1 cont'd:** Approaches and Tools to Decisions under Uncertainty, Risk and Ambiguity Prof. Gert de Cooman University of Gent, Belgium	**Module 3 cont'd**: Policy Packaging as a tool to improve policy efficiency Dr. Moshe Givoni University of Oxford, UK	**Module 5 cont'd:** Roles of Transportation Sector in Integrated Disaster Risk Management (cont'd) Prof. Hirokazu Tatano Kyoto University, Japan	**Module 7 cont'd:** Prof. Shinya Kikuchi Virginia Tech, USA	Group exercise presentations (at 11:15)
12:15	Lunch	Lunch	Lunch	Lunch	Lunch
13:30-14:45	**Module 2:** Influence of Paradigms on Problem Framing and the Nature of Uncertainty Prof. Peter Jones University College London, UK	**Module 4:** Trans European Network Planning. Guidelines for Transeuropean Networks Dr. Peder Jensen, European Environment Agency, Denmark	**Module 6:** Site visit to the new Helsinki Harbor at Vuosaari (bus) Concepts, challenges, solutions, the environment, land side transport Entire afternoon	**Module 8:** Theoryless Planning Antti Talvitie Aalto University School of Science and Technology, Finland	**Module 10:** An Example of Risk Analysis in Transportation (Climate change) Mr. Pertti Virtala Destia Corp., Finland
14:45	Coffee/tea	Coffee/tea		Coffee/tea	Coffee/tea
15:15-17:00	**Module 2 cont'd:** Generating Innovative Options in an Uncertain World Prof. Peter Jones University College London, UK	**Module 4 cont'd** Tracking EU Transport Policy with Indicators Dr. Peder Jensen European Environment Agency, Denmark		**Module 8 cont'd:** Knowledge production for transport policies in the information society Dr. Anu Tuominen VTT, Finland	**Module 10 cont'd :** Multi-Criteria Decision Analysis Models for Managing Road Maintenance Dr. Pekka Mild Poyry Plc, Finland
	17:30 Get acquainted cocktails at Ramboll Consulting (bus)	Open/Free	Open/Free	Open/Free	19:00 Conference Banquet/ Dinner/Diplomas

Instructors
Leading world experts from universities, think-tanks, consultancies, and transport organizations, are selected based on their academic credentials and proven experiential competence.

Prof. Gert de Cooman, University of Gent, Belgium
Prof. Peter Jones, PhD, Professor of Transport and Sustainability, UCL, UK
Dr. Moshe Givoni, Transport Studies Unit (TSU), School of Geography and the Environment, University of Oxford, UK
Dr. Peder Jensen, Head of Energy and Transport Group, Air and Climate Change Programme, European Environment Agency, Denmark
Prof. Hirokazu Tatano, Kyoto University. Disaster Prevention Research Institute, Japan
Dr. Anu Tuominen, Dr. Eng. VTT, Research Institute, Finland
Mr. Pertti Virtala, MSc, Risk Analysis Expert, Destia, Corp., Finland
Dr. Pekka Mild, Dr.Eng, Poyry Plc, Finland
Prof. Shinya Kikuchi, PhD, Professor, Virginia Tech, USA
Prof. Antti Talvitie, PhD, Professor, Aalto University, School of Science and Technology, Finland

Contact
Antti Talvitie, PhD, Professor
Department of Civil and Environmental Engineering
Aalto University School of Science and Technology, P.O.Box 12100, FI-00076 Aalto, Finland
Tel +358 50 432 6781 (Europe), ap.talvitie@tkk.fi, or Atalvitie@worldbank.org, or
7944 Lobelia Lane, Springfield, VA 22152, USA
Tel +1 703 474 4382 (USA)

Shinya Kikuchi, PhD PE
Charles E. Via Jr. Professor of Civil and Environmental Engineering
Department of Civil and Environmental Engineering
Virginia Tech, National Capital Region, 7054 Haycock Rd. Falls Church, VA 22043 USA
Tel (703)538-8436, Fax (703)538-8450 kikuchi@vt.edu