



**Aalto University**  
School of Engineering

**Helsinki Summer School in Transportation**  
**Rethinking the Transportation Planning Process**  
**Executive Course**  
**August 8-12, 2011**

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

### Introduction

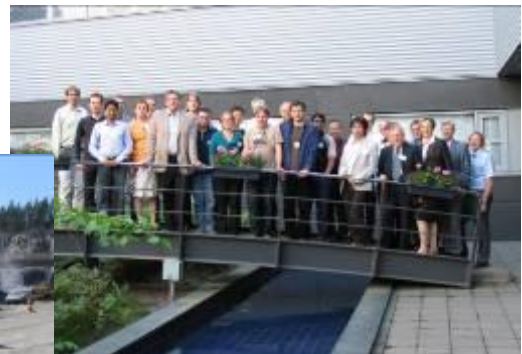
The *Helsinki Summer School in Transportation* has established itself as a premier institution offering innovative and practical approaches to understand and solve complex transport problems. The Summer School presents an intensive learning experience to mid-career professionals of transport engineering and planning, and graduate students. Following the very successful Summer Schools in past four years, the theme in 2011 will be *Rethinking the Transportation Planning Process* in the presence of uncertainty and the participatory decision-making environment. 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 economic, intellectual, and social wellbeing of citizens. These “good things” need to be carefully examined and weighed in the presence of “bad things” and uncertainty about both. *Rethinking the Transportation Planning Process* will be a unique experience; both the real world issues and the analytical approaches will be presented by internationally renowned experts.

The Summer School 2011 will take place in August 8-12, 2011 on the beautiful campus of Aalto University Otaniemi (formerly Helsinki University of Technology) in Espoo, Finland. The five day course will bring transport executives, managers and graduate students of varying backgrounds together to a common theme of the *Transport Planning Process*. A field visit is planned to the Finnish Transport Agency, a multimodal transport administration with a new multimodal approach to transport planning. The class includes a team exercise to apply the concept and approaches to the real world transport planning.

### 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 600 includes course material and banquet. After June 1, 2011, the fee is EURO 800. The attendees may earn continuation education credits in Aalto University School of Engineering (3 ECTS-credits). A limited number of scholarships for registration fee is available for graduate students. 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/](http://civil.tkk.fi/en/research/transportation/helsinki_summer_school_in_transportation/).



## Helsinki Summer School in Transportation Program 2011: Rethinking the Transportation Planning Process (updated January 27, 2011)

[http://civil.tkk.fi/en/research/transportation/helsinki\\_summer\\_school\\_in\\_transportation/](http://civil.tkk.fi/en/research/transportation/helsinki_summer_school_in_transportation/)

	<b>Monday August 8</b> Theme: The Transport Planning Process	<b>Tuesday August 9</b> Theme: Evaluation of Transport Plan and Program Alternatives	<b>Wednesday August 10</b> Theme: Equity and 'Voice' in Transport Planning and Plan Evaluation	<b>Thursday August 11</b> Theme: Financing and Its Influence on Financially Constrained Transport Plans	<b>Friday August 12</b> Theme: Governance, Organization and Service Delivery in the Transport Sector
(8:45 Monday only) 9:00-10:30	<b>Welcome:</b> Prof. Matti Pursula, Aalto University, Finland <b>Module 1:</b> The Transport Planning Process in the EU countries Dr Moshe Givoni, University of Oxford, UK	<b>Module 5:</b> Emergency Preparedness: Transportation Planning under Exceptional Circumstances  Olga Huibregtse, Technical University of Delft, The Netherlands	<b>Module 9:</b> Participation in Transport Planning. Consideration of Social Exclusion.  Dr Karen Lucas, University of Oxford, UK	<b>Module 12:</b> User Charges and Subsidies: <ul style="list-style-type: none"> <li>• EU Directive on Road Pricing,</li> <li>• Congestion Pricing</li> <li>• Rail Track Access Charges</li> <li>• User and Entity Subsidies</li> </ul> Bryan Matthews, Institute for Transport Studies, University of Leeds, UK	<b>Module 16:</b> Transport Sector Organization  Paul Amos, Consultant, Former Transport Adviser in the World Bank
10:30	Coffee/tea	Coffee/tea	Coffee/tea	Coffee/tea	Coffee/tea
11:00-12:15	<b>Module 2:</b> The Urban Transport Planning Process in the US  Prof. Joseph Schofer, Northwestern University, Evanston, Illinois, USA	<b>Module 6:</b> Logistics and Freight Transport <ul style="list-style-type: none"> <li>• Urban Freight</li> <li>• Road Freight</li> <li>• Railway Freight</li> </ul> Prof. Lauri Ojala, Turku School of Economics, Finland	<b>Module 10:</b> Equity Issues and Approaches in Evaluating Alternatives  Dr Moshe Givoni, University of Oxford, UK (Class exercise)	<b>Module 13:</b> User Charge Technologies <ul style="list-style-type: none"> <li>• Road Pricing</li> <li>• Tolls</li> <li>• Public Transport</li> <li>• Urban Transport</li> </ul> TBD	<b>Module 17:</b> Land Use and Transport Planning  Prof. Peter Ache Aalto University, Centre for City and Regional Planning, Finland
12:15	Lunch	Lunch	Lunch	Lunch	Lunch
13:30-14:45	<b>Module 3:</b> An Example of a Transportation Planning Process: the Transport Plan and Program  Prof. Steen Leleur, Denmark Technical University, Denmark	<b>Module 7:</b> Game Theoretic Approaches to the Evaluation of Transport Alternatives  Prof. Shinya Kikuchi, Virginia Tech, USA	<b>Module 11: Site visit to the Finnish Transport Agency</b> Presentation of Multimodal Transport Administration <ul style="list-style-type: none"> <li>• Organization</li> <li>• Processes</li> <li>• State-wide Transportation Planning</li> <li>• Traffic Management Center</li> </ul>	<b>Module 14:</b> Financing Alternatives <ul style="list-style-type: none"> <li>• Budget Financing</li> <li>• PPPs</li> <li>• Tolls and Shadow Tolls</li> <li>• Road Funds</li> </ul> Cesar Queiroz, Former Road Adviser in the World Bank	<b>Module 18:</b> Telematics and other ITS Systems' Influence on Transport Planning  Sampo Hietanen, President, Helpten, Finland
14:45	Coffee/tea	Coffee/tea	Anne Herneoja, Chief Director, Transport Systems, Finnish Transport Agency	Coffee/tea	Coffee/tea
15:15-16:45	<b>Module 4:</b> Transport revolution: A new approach to transport policy, its productivity and effectiveness  Eeva Linkama, MSc, Ministry of Transport and Communications, Finland	<b>Module 8:</b> Benefit-Cost Analysis as an Evaluation Method  Prof. Joseph Schofer, Northwestern University, Evanston, Illinois, USA		<b>Module 15:</b> Risk Analysis in Transport Planning and Decision-making  Pertti Virtala, Destia Corp., Finland	<b>Module 19:</b> Low Mobility, Congestion, and High CO2 emissions. A new framing of an old problem in transport planning  Dr. Lee Schipper, Precourt Institute, Stanford University
	17:30 Get acquainted cocktails at Ramboll Finland	Open/Free	Open/Free	Open/Free	19:00 Conference Banquet/ Dinner

**Lecturers**

The lecturers are leading world experts from universities, think-tanks, consultancies, and transport sector organizations and selected based on their academic credentials and proven experiential competence.

**Contact**

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

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](mailto:kikuchi@vt.edu)