



Tiepäivät 24.–25.8.2022

Road Congress

Winter Road Seminar,
Wednesday 24.8.2022

Place: Tampere Sports and Exhibition Centre
Sirius seminar hall

8:45 –9:30 Registration and morning coffee
9:00 Exhibition opens

Chairmen: Nina Raitanen, Finnish Road Association and Magnus Nygård, Finnish Transport Infrastructure Agency

9:30 **Welcome to the Road Congress, Nina Raitanen, CEO, Finnish Road Association**
9:40 Machine learning, any help for decision-making, case Road Weather Images.
Hard-ware vs Hard-work, Rauno Kuusela, Destia
10:00 Mapping and planning of maintenance operations on streets of the Oslo municipality in Norway”,
Mats Bayard, Niko Rosenquist, Triona
10:20 Improving Winter resilience on united kindom roads: Learning from international experience
Mark Corbin, Transport for West Midlands
10:40 Automation of Winter Service Worksheets, Māris Klīgis, Raitis Šteinbergs, Latvijas autoceļu uzturētājs
11:00 Lunch
11:30 Koneviesti Driving Skills Competition, Exhibition

Chairmen: Milko Tietäväinen, Tampere Infra and Nina Raitanen, Finnish Road Association

12:15 A Compact Mobile Road Condition Sensor, Taisto Haavasoja, Teconer Oy
12:35 Automated de-icing chemical spreading, Juha Laakso, Infotripla Oy
12:55 On the Constructability of Asphalt Pavements with Embedded Electric Heating,
Eyal Levenberg, Adam Quentin Félix, Denmark Technical University
13:15 Performance Evaluation of Next-Generation Asphalt Pavement-Smoothing Technology in South Korea:
Non-Contact Digital Ski, Augusto Cannone Falchetto, Aalto University
13:35 From reaction to prevention! Real time road weather condition data for winter maintenance,
Antti Hirvonen, Road Cloud
13:55 Driving skills Competition Prizes
14:00 Coffee, Exhibition, Demos

Chairmen: Anne Kasari University of Tampere and Milko Tietäväinen, Tampere Infra

15:00 Communicating the winter maintenance service promise of bike paths,
Martti Tulenheimo, The Finnish Cyclists' Federation
15:20 Winter slip-and-fall accidents and their prevention: an equality perspective,
Johannes Mesimäki, VTT Technical Research Centre of Finland Ltd
15:40 Bicycle-based Winter Maintenance Quality Assessment on Bicycle-paths,
Sebastian Bussman, West Coast Road Masters Oy
16:00 Increased winter road safety with information regarding road condition, Viktoria Bogren, Klimator AB
16:20 Experience in Contract models, Otto Kärki, Finnish Transport Infrastructure Agency
16:40 How robotics could enhance quality assurance and situational awareness
in infrastructure construction projects, Markus Melander, GRK Infra Oy
17:00 Closing words

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Road Congress

PROGRAM

Maintenance & Asset Management Seminar,
Thursday 25.8.2022

Place: Tampere Sports and Exhibition Centre,
Sirius Seminar hall

8:45–9:30 Registration and morning coffee
9:00 Exhibition opens

Chairmen: Toni Korjus, Kahva and Tero Haarajärvi, Centre for Economic development, transportation and the environment

9:30 Welcome to the Road Congress, Mr Aleks Jäntti, Deputy Mayor of the City of Tampere
9:40 Prizes for demonstration videos
9:50 Business intelligence in proactive traffic infrastructure management, Timo Saarenketo, RoadScanners
10:10 Asset Management – Based on ISO 55000 Standard Series, Jyrki Paavilainen, WSP Finland
10:30 Enablers of improved productivity in the infrastructure sector – the most valuable lessons?
Kaisu Laitinen, Ramboll
10:50 Road condition detection technology: A benefit analysis, Toni Lusikka,
VTT Technical Research Centre of Finland Ltd
11:10 How artificial intelligence enabled computer vision optimizes reactive and planned
road maintenance activities, Aleks Kauppi, Vaisala
11:30 3D ground penetrating radar (GPR), laser scanner and 3D accelerometer data utilization
in analysis of problematic sections of road network, Anssi Hiekkalahti Roadscanners
11:50 Bridges – deteriorating national asset – how the asset is managed? Seppo Määttä, Sweco PM
* video lecture: City of Tampere Asset Management Development Curve - Traffic signs
and street condition information Case, Eelis Ylitalo, Maiju Ylönen, Tampereen Infra Oy
12:10 Lunch, Exhibition and Demos

*Chairmen: Tero Haarajärvi, Centre for Economic development, transportation and the environment and Anne Kasari
University of Tampere*

13:10 HCT trials in Finnish timber transportation, Pirjo Venäläinen, Metsäteho Oy
13:30 Utilization of real-time floating car data in the traffic impacts of large construction sites,
Aleksi Vesanto, Ramboll
14:50 Tampere as a forerunner in transport emission mitigation,
Lasse Nykänen ja Sarianne Vihakara Vedia Oy
14:10 Development of environmental requirements for transportation infrastructure, Anne-Mari Haakana,
Finnish Transportation Infrastructure Agency
14:30 12 Calculating the carbon footprint in maintenance contract, Oiva Huuskonen, Destia
14:50 Reducing CO₂ emissions and costs by road design, Miikka Niinikoski, Ramboll
15:10 Final Words
15:30 The Exhibition closes

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