

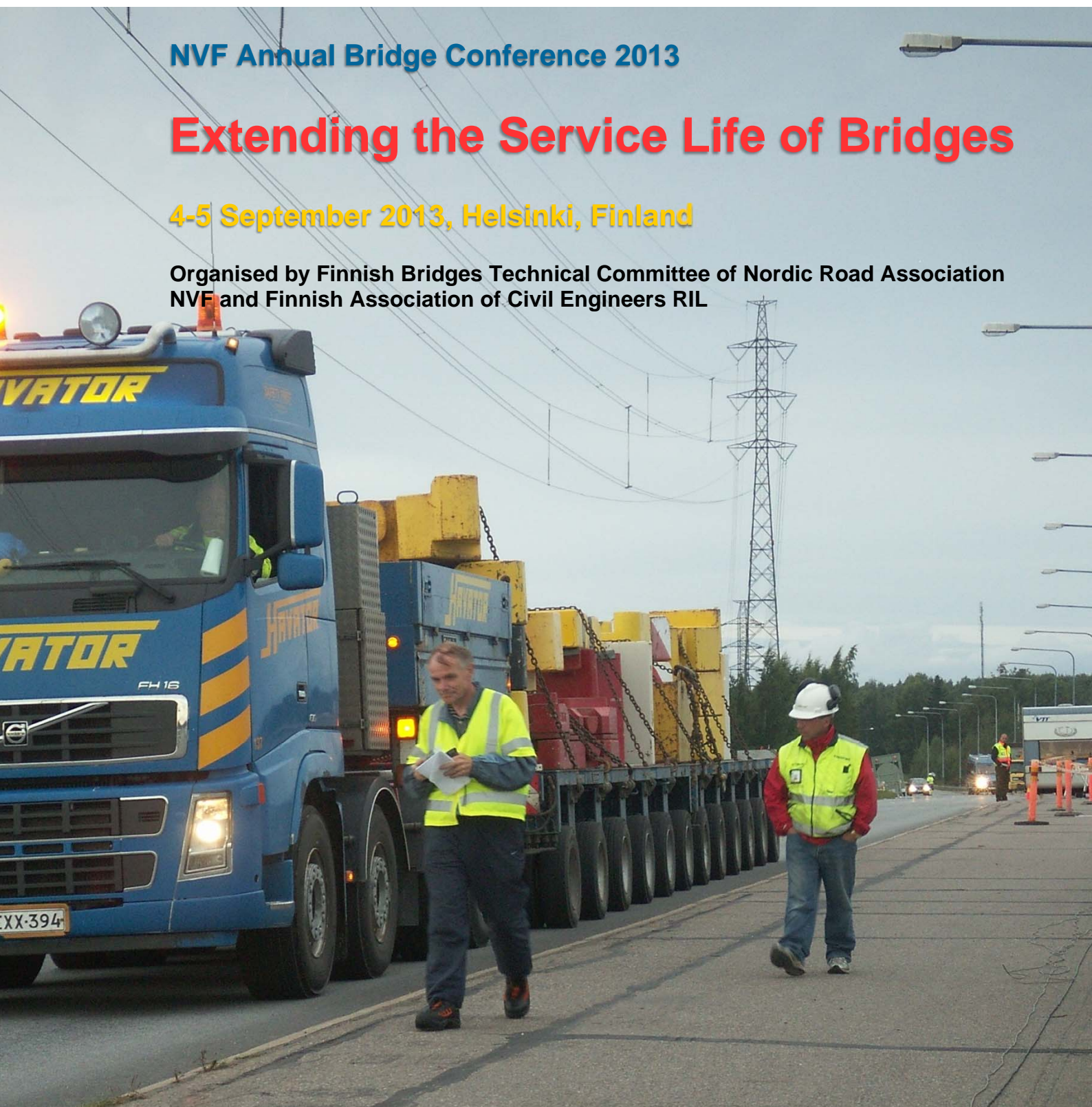


NVF Annual Bridge Conference 2013

Extending the Service Life of Bridges

4-5 September 2013, Helsinki, Finland

**Organised by Finnish Bridges Technical Committee of Nordic Road Association
NVF and Finnish Association of Civil Engineers RIL**



Goal of the conference

With its theme *Extending the Service Life of Bridges* the conference addresses topical questions in Nordic bridge maintenance. These include assessing and rehabilitating aging bridges for the present and new traffic loads. Special reference is made to alkali-reactions in concrete that has in some onsets found to deteriorate structures quickly.

The conference is continuation of the annual bridge conference series arranged by the NVF Bridges Technical Committee. It allows Nordic and Baltic bridge experts to network and share expertise in issues specific to the Nordic bridge stock, geographical area and bridge management routines.

About organizers

The Nordic Road Association (www.nvfnorden.org) aims at developing the road transport sectors in Northern Europe through professional cooperation between experts from all Nordic Countries. NVF was founded 1935 and has reached well known and recognized status among professionals on its field.

Bridges Technical Committee handles bridge engineering tasks under the auspices of NVF. The tasks are mostly specific to Nordic and Northern European existing and new bridge stock. Among other activities, the Committee arranges annual seminars on various technical matters.

Finnish Association of Civil Engineers RIL (www.ril.fi) is an organization for civil engineers with Master of Science degrees and university students of civil engineering. RIL supports the development of building, urban planning and environmental technology and acts to preserve solid and durable building and maintenance traditions. RIL also supervises the benefits of its members and promotes their professional skills and welfare.

Practical Information

Conference language is English. Conference venue is *Sokos Hotel Presidentti* (street address Eteläinen rautatiekatu 4).

Conference dinner will be held in Säätytalo (the House of the Estates) which is a historical Neo-Renaissance building in the city center of Helsinki (Snellmanninkatu 9).

The on-line registration is open at the Conference website <http://www.ril.fi/nvf13>

On-site registration is also possible at the venue on the 4th September.

Conference fees are shown in table below. Accompanying persons are welcomed to register to the dinner and the technical tour by paying the associated fees.

For the Finnish participants, registration fee includes full registration to the Finnish Bridge Days 2013



Conference dinner is arranged at the House of the Estates (photos www.wikipedia.org)

(*Siltapäivät'13*), which are held in parallel at the same venue.

For inquiries and assistance please contact the conference secretariat: Mr. Ville Raasakka
ville.raasakka@ril.fi or +358 50 366 8687.

Accommodation needs to be reserved by the conference participants themselves. Organizers have made block-reservation to

Sokos Hotel Presidentti
www.sokoshotelpresidentti.fi/en
Tel. +358 20 1234 600
Eteläinen Rautatiekatu 4

Rooms are guaranteed on rate **134e** (one person per night) and **144e** (two persons per night) when reservation is made before the 1st of August. Reservation needs to be made through email on sokos.hotels@sok.fi or by phone +358 20 1234 600. **Please mention the booking code PTL13.**

There is also number of other hotels available in the Helsinki city area with typical room rates 100 to 200e.

Conference fees

<i>Fee (euro)</i>	<i>Early registration due 1. July 2013</i>	<i>Regular registration fee</i>
Conference (incl. lunch and coffees)	390	480
Dinner	110	110
Technical tour	free to conference participants and accompanying persons	free to conference participants and accompanying persons

Fees include the value added tax VAT 24%.

Pre-conference events

Tuesday, September 3, 2013

12:00	1st NVF Open Bridge Golf Championship (own cost)	contact and reservations risto.kiviluoma@wspgroup.fi
17:00-18:30	NVF Committee Bridges Technical Committee Chairmen and Secretary Meeting (for the Chairmen and Secretaries only)	RIL, street address Töölönkatu 4, Host Mr Ville Raasakka
18:30	Unmanaged get-together of Conference participants (own cost)	Lobby of the Sokos Hotel Presidentti

Conference programme

Wednesday, September 4, 2013

9:00	Registration		
9:15	Opening of the conference	Risto Kiviluoma	FI
Session 1	Upgrading for new demands	Chair Risto Kiviluoma	
9:20	Accelerated bridge repair - methods and economics	Karsten Normand Christiansen & Essenbæk A/S	DK
9:40	Semiflexible surfacings, a way to reduce maintenance cost	Henrik Jeberg The Danish Road Directorate	DK
10:00	Increased demands for load-bearing capacity leads to strengthening or exchange of bridges	Hans Pétursson Trafikverket	SE
10:20	New tools for load-bearing assessments of the Finnish Bridge Stock	Risto Kiviluoma WSP	FI
10:40	<i>Coffee break</i>		
Session 2	Effect of condition on resistance	Chair Jani Meriläinen	
11:10	Content and reactivity of alkali silica in bridge concrete structures	Julija Ivanova Latvian State roads	LV
11:30	Alkali reactions in concrete	Gísli Guðmundsson Mannvit	IS
11:50	Can the load-bearing capacity of alkali-chemical reaction damaged bridges be assessed?	Henrik Mørup Niras	DK
12:10	Alkali reactions and load capacity	Trond Østmoen Aas-Jabobsen	NO
12:30	Alkali-silica-reaction and the influence it has on the load bearing capacity of the bridge	Ali Farhang Ramboll	SE
12:50	<i>Lunch</i>		
Session 3	Ensuring the quality of rehabilitation	Chair Morten Wright Hansen	NO
14:00	Norwegian temporary bridges	Gunnar Magnus Haugen Norwegian Public Roads Administration	NO
14:20	Maintenance of the Fredrikstad Bridge	Trond Østmoen Aas-Jabobsen	NO
14:40	P-rate method for frost-resistant concrete in Finnish bridges – does it work?	Liisa Salparanta Technical research centre of Finland VTT	FI
15:00	Results from new investigation of Danish marine bridges	Henrik Sørensen Teknologisk Institut	DK
15:20	Non-destructive testing in practise	Guy Rapaport Ramboll	FI
15:40	<i>Coffee break</i>		
16:00	Closing discussion	Chair Risto Kiviluoma	FI
17:00	Close of day 1		
19:00-23:00	<i>Conference dinner (the House of Estates, Snellmanninkatu 9)</i>		

Thursday September 5, 2013

Excursion E18 Koskenkylä-Kotka Motorway and Ahvenkoski Bridges Construction Site

- 8:30 Get-together in front of Sokos Hotel Presidentti (outside the main entrance)
- 9:00 Bus leaving the hotel
- 11:00 Site visit to the Ahvenkoski Bridge
 - single-plane Langer girder
 - spans 22.5 + 90.0 + 22.5 m
 - estimated phase: deck completed, launching of steel arch in progress
- 13:00 Bus leaving the site
- 13:20 Lunch
- 14:20 Bus leaving the lunch venue
- 16:45 Bus stop at the Helsinki airport
- 17:30 Bus stop at Sokos Hotel Presidentti

Presentation of the project

Timo Tirkkonen, Finnish Transport Agency

Presentation of the design of the Ahvenkoski Bridge

Jussi Luokkallio, SITO

Presentation of Ahvenkoski Bridges construction site

Jukka Hietaniemi, TYL Pulteri



Renderings: Finnish Transport Agency