

preliminary

# invitation

INTERNATIONAL CONFERENCE

# Timber Bridges

ICTB2010



Lillehammer, Norway 12-15 September 2010



**Statens vegvesen**  
Norwegian Public Roads  
Administration





**Leonardo da Vinci Bridge**

Length: 110 m. Main span: 40 m. Construction year: 2001.



**Statsrådsveien Bridge**

Length: 44.2 m. Main span: 36 m. Planned construction year 2011.

# Committees

## Steering Committee

**Børre Stensvold** - Conference Chair,  
Bridges Section, Norwegian Public Roads Administration (NPRA)

**Kjell Arne Malo** - Department of Structural Engineering,  
Norwegian University of Science and Technology (NTNU)

**Erik Aasheim** - Department of Applications and Durability,  
Norsk Treteknisk Institutt (NTI)

**Otto Kleppe** - Bridges Section,  
Norwegian Public Roads Administration (NPRA)

## Organizing Committee

**Nils-Ivar Bovim**, Norwegian University of Life Sciences (UMB)

**Rune B. Abrahamsen**, Sweco Norway

**Åge Holmestad**, Moelven Industrier ASA

**Trond Arne Stensby**, Norwegian Public Roads Administration (NPRA)

**Tormod Dyken**, Norwegian Public Roads Administration (NPRA)

**Kjell Arne Malo**, Department of Structural Engineering,  
Norwegian University of Science and Technology (NTNU)

**Erik Aasheim**, Norsk Treteknisk Institutt (NTI)

**Otto Kleppe**, Norwegian Public Roads Administration (NPRA)

## International Scientific Committee

**Heinrich Kreuzinger** (Germany), **Kurt Schwaner** (Germany),

**Gerhard Schickhofer** (Austria), **Aarne Jutila** (Finland),

**Robert Kliger** (Sweden), **James Wacker** (USA),

**Kjell Arne Malo** (Norway), **Nils-Ivar Bovim** (Norway)

## Conference address and secretariat

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Fax: +47 2207 3866

E-mail: [ICTB2010@vegvesen.no](mailto:ICTB2010@vegvesen.no)

[www.vegvesen.no/ictb2010](http://www.vegvesen.no/ictb2010)

ICTB2010

c/o Statens vegvesen

P.O. Box 8142 Dep

NO-0033 OSLO, Norway

# Introduction

Norway is a rather long and sparsely populated country with many fjords and larger and smaller rivers. Thus, the road infrastructure requires countless bridges from the smallest up to large bridges crossing fjords with spans of up to 1,300 metres. The ready availability of timber and the tradition of utilising timber in houses and other structures makes it natural to consider timber an adequate construction material for bridges with spans of up to 100 metres or even more. Today there are a large number of both road and pedestrian timber bridges in Norway. Since 1995, the Norwegian Public Roads Administration has built more than 100 [timber] bridges with spans up to 70 metres.

Many other countries have a long tradition of timber bridge building as well; valuable experience has been gained and there have been significant new developments in the field.

The main objective of the conference is to discuss and showcase the state of the art in timber bridge technologies. Topics will range from durability, maintenance, structural systems and detailing to recent construction projects. The primary emphasis will be on the design of durable, environmentally-friendly and cost-efficient bridges.

The conference will be hosted by the Norwegian Public Roads Administration in cooperation with the Norwegian University of Science and Technology and Norsk Treteknisk Institutt (the Norwegian institute of wood technology).

## Themes and Topics

The conference technical sessions will address the following topics:

- Durability/Weather protection
- Environment LCA (EPD)
- Maintenance
- Conceptual design
- Structural systems
- Life Cycle Cost
- Material considerations
- Structural detailing
- Cost competitiveness
- Case studies (presentations)
- Design codes

## Conference overview

Sunday 12 Sep.	Monday 13 Sep.	Tuesday 14 Sep.	Wednesday 15 Sep.
	Opening Session	Session	Post-conference tour
	Lunch	Lunch	
Registration	Session	Session Closing session	
Reception	Sightseeing	Conference dinner	

# Participants

Academics, researchers and professionals interested in the field of timber engineering and design are invited to attend the conference to learn about innovative solutions and the application of new methods, theories and technologies in the field of timber bridge planning and construction.

## General information

### Place and Dates

The conference will take place at Radisson Blu Lillehammer Hotel, Norway from Monday 13 September to Tuesday 14 September - two complete days. A reception will take place on Sunday 12 September during the afternoon. Departure on Wednesday morning. For further information about Lillehammer, please visit [www.lillehammer.com](http://www.lillehammer.com).

### Language

The official language of the conference is English.

### Exhibition

An exhibition is planned at the conference venue. Companies interested in participating are invited to contact the conference secretariat no later than 31 March 2010.

### Social Programme

An attractive social programme will be organised for participants and accompanying persons. More information about this will be supplied in the final invitation.

### Post-conference Tour

There will be a post-conference tour for participants and accompanying persons. More information about this will be supplied in the final invitation.

### Conference fees

In Norwegian kroner	Until July 1 2010	After July 1 2010	On site registration
Participants	NOK 2500(€300€)	NOK 3000 (€350€)	NOK 3200 (€380€)
Young engineers	NOK 500(€60€)	NOK 600 (€70€)	NOK 650 (€75€)
Accompanying person	NOK 1000 (€120€)	NOK 1200 (€140€)	NOK 2500 (€150€)

(Fee amounts in € are approximate).

Potential participants will be offered electronic registration at [www.vegvesen.no/ICTB2010](http://www.vegvesen.no/ICTB2010)



**Ner-Hole (Romsdalsporten) Bridge**  
Span: 42 m. Construction year: 2006.



**Tynset Bridge**  
Main span: 70 m. Construction year: 2001.

# Welcome to Lillehammer



## Conference venue and accommodation

Lillehammer is situated in the eastern part of Norway, about 180 kilometres north of Oslo and about 145 kilometres north of Oslo Airport Gardermoen (OSL). The town is a popular tourist destination with more than 800 000 visitors (guest- nights) every year. The city centre is a late 19th century concentration of wooden houses. Surrounded by mountains, the city enjoys a picturesque location overlooking the northern part of Lake Mjøsa and the river Lågen. Lillehammer is famous worldwide for hosting the 1994 Olympic Winter Games.

Lillehammer has a population of some 26000 inhabitants and is a commercial, administrative, cultural and educational centre for the region. You will find excellent museums and galleries, Olympic venues, a large number of restaurants and a wide selection of shops and accommodation. Among the attractions are:

**Maihaugen** – an open-air museum with old and new timber buildings.  
[www.maihaugen.no/en](http://www.maihaugen.no/en)

**Lillehammer art museum**  
[www.lillehammerartmuseum.com](http://www.lillehammerartmuseum.com)

**Lysgårdsbakkene** Olympic ski jumping arena  
[www.olympiaparken.no/english](http://www.olympiaparken.no/english)

**Håkons Hall** Olympic Ice skating arena  
[www.olympiaparken.no/english](http://www.olympiaparken.no/english)



## Radisson Blu Lillehammer Hotel

will serve as the Conference Venue. Rooms have been reserved for Conference participants. To benefit from the special hotel rates, reservations must be made by Day Month Year.

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