

# Final Invitation

IABSE Conference Copenhagen 2018

Engineering the Past, to meet the needs of  
the Future, 25<sup>th</sup> – 27<sup>th</sup> June, 2018, Denmark



Organised by:  
The Danish Group of IABSE in co-operation  
with the Technical University of Denmark.



# *Introduction*

Danish IABSE invite you to Denmark, to share your experience within operation and maintenance of bridges and other civil engineering structures.

Management of bridges and other civil engineering structures involves significant expenditures, and at a time of constrained public resources, it requires difficult decisions to prioritise for operation and maintenance.

Every day engineers, researchers and public and private agencies strive to make decisions, which are efficient with due respect of reliability, availability, safety, health, economy and environmental aspects.

Latest advances in technology and experience from operation and maintenance of bridges and other civil engineering structures should be shared to enable engineers, researchers and public and private agencies to plan ahead.

## *Objective and scope*

The objective of the conference is to provide a forum for owners, operators, designers, researchers, contractors and suppliers to meet, discuss and exchange ideas and experiences within the topics of operation and maintenance of bridges and other civil engineering structures.

## *Key Note Speakers:*

Invited Key Note Speakers will present lectures on key conference topics.

- Opening Session – Fernando Branco (President of IABSE)
- Adriano Maglica, National Coordinator, Major bridges, Swedish Transport Administration
- Lars Fuhr Pedersen, Technical Director, Sund & Baelte Holding A/S, Denmark
- Neil A. Cumming, FEC, FACI, P.Eng., Celeritas Consultants Ltd., Canada
- Rosemarie Helmerich, Dr. Ing., Federal Institute for Materials Research and Testing, Germany



# *Scientific format and program*

Fernando Branco (President of IABSE) will be hosting the Opening Session.

The scientific program will include plenary sessions, concurrent technical sessions and poster sessions. Invited keynote speakers will present lectures on significant topics related to operation and maintenance of bridges and other civil engineering structures.

Under the conference title, Engineering the Past to meet the needs of the Future, we have submissions under the following themes and topics:

## **Management**

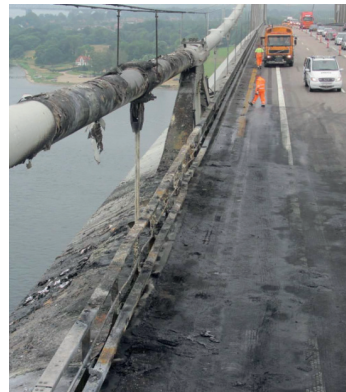
- Data-driven asset management systems
- Service life prediction and residual service life
- Life cycle cost studies
- Sustainability and life cycle assessment
- Risk management
- Codes

## **Inspection and maintenance**

- Inspection and maintenance strategies
- Diagnostics and performance indicators
- Structural health monitoring
- Non-destructive testing incl. innovative technologies (robotic and aviation-based techniques)
- Field testing and proof-loading

## **Safety**

- Safety and serviceability
- Assessment and evaluation
- Deterioration modelling and Bayesian updating
- Repair and retrofitting strategies
- Risk and reliability
- Load models incl. extreme loads





## *Young engineer's program*

All participants born in or after 1984 will benefit from a reduction in their registration fee.

Young engineers, who personally present their papers at the conference, will be considered for a best young engineers paper award.

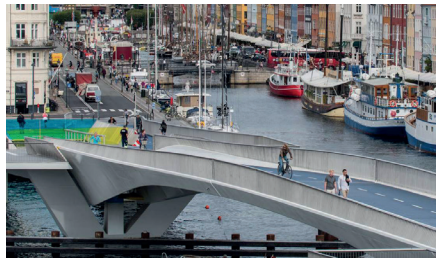
## *Technical visits*

Participants and accompanying persons may register for the following excursions:

Jun. 24, 2018: Bridge boat tour in Copenhagen Harbour (bridge examples shown below)



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©Wonderful Copenhagen

Jun. 27, 2018: Two optional technical visits are provided:  
Site visit at Fjord Link Frederikssund – A new Fjord Link under construction (see illustration below)



Visit the Great Belt Bridge (see picture below) – which has now been in operation since 1998.

**NB. Limited numbers of participants, first come first served.**



## ***Registration:***

Registration is provided in several categories based on membership status and time of registration.

Full delegate registration package includes:

- Entrance for pass holder to all technical sessions including Key Notes.
- Admittance for pass holders to exhibit hall.
- A copy of the conference proceedings on a USB stick
- Daily coffee breaks and lunch (Monday & Tuesday) for pass holders
- Admittance for pass holder to City Hall Reception
- Admittance to Harbour Boat Tour and Technical Visit (24th / 27th June 2018)
- Access to register for Conference Dinner (at extra costs)

Participants may register and view registration fees via the IABSE website, [www.IABSE.org/Copenhagen2018](http://www.IABSE.org/Copenhagen2018)

## ***Publication***

All accepted papers will be published in the conference proceedings (usb stick), provided that the primary author is present at the conference.



Bridge inspection on Fodsporet performed for The Danish Nature Agency



# *Time schedule*

## *Important dates for the 2018 conference:*

Abstract submission deadline	Nov. 20, 2017
Abstract acceptance	Dec. 4, 2017
Paper submission deadline	Feb. 5, 2018
Paper acceptance	Mar. 16, 2018
Final programme	Mar. 23, 2018
Final paper submission deadline	Apr. 9, 2018
Early Bird Registration	Apr. 18, 2018
2-Day conference and 1-day technical tour	Jun 25-27, 2018

Bridge Tour in Copenhagen Harbour	Jun. 24, 2018
Conference & City Hall Reception:	Jun. 25, 2018
Conference & Informal Conference Dinner	Jun. 26, 2018
Technical Site Visits	Jun. 27, 2018



# ***General information***

## ***Dates and venue***

The 2-day conference will take place at the Technical University of Denmark, Kongens Lyngby, Denmark (approximately 40 minutes from Copenhagen Central Station by public transport and 1 hour from Copenhagen airport also by public transport).

## ***Language***

The official language of the conference is English.

## ***Accommodation***

Hotel rooms at special conference rates have been pre-booked for the participants in various hotels of different categories in the vicinity of the venue.



## ***Sponsorship and Exhibition***

Sponsorship opportunities for the conference provide conference supporters with a number of ways to enhance their visibility and association with the event. In addition, a commercial exhibition will be arranged in conjunction with the conference. The exhibition will also take place at Technical University Denmark during IABSE Copenhagen 2018. Exhibiting provides an unparalleled opportunity to reach professionals, academics, practitioners, decision-makers, policy-makers from all cross Europe and beyond. We will integrate the commercial exhibition with the poster exhibition, and the catering services and thus ensure that the exhibition becomes an integral part of the entire conference.

More information at [www.IABSE.org/Copenhagen2018](http://www.IABSE.org/Copenhagen2018)

## ***Social program***

A social program has been organized for all participants and accompanying persons:

### **Bridge tour in Copenhagen Harbour, Sunday June 24, 2018**

Come and join old acquaintances and meet new contacts, on a guided tour around the harbour, while you enjoy the view and stories about old and new bridges of the Copenhagen Harbour, historical locations, and the opportunity to see the Little Mermaid. The tour ends at Nyhavn where a sandwich and beverages will be served.

### **City Hall Reception, Monday June 25, 2018**

The City of Copenhagen and the Mayor of Technical and Environmental Affairs will welcome you at the City Hall Reception. It will be an excellent opportunity to network while enjoying the famous City Hall pancakes.

### **Informal Conference Dinner, Tuesday June 26, 2018**

The Informal Conference Dinner will take place at Jacobsen Brewhouse & Bar at the Old Carlsberg Brewery – Probably the Best Dinner in Town..... This will be a unique evening of Great Beer, friends and networking.

## ***About IABSE***

Founded in 1929, IABSE has approximately 3500 members in over 100 countries. IABSE's aim as a technical society is to promote the advancement of structural engineering practice while taking into account technical, economic, environment, aesthetic and social aspects.

IABSE Denmark arrange national meetings as well as international conferences such as the Conference on Operation, Maintenance and Rehabilitation of Large Infrastructure Projects, Bridges and Tunnels in 2006.



## ***Committees***

### **Scientific Committee**

Barbara MacAulay (Chair), Danish Road Directorate  
 Claus Madvig Petersen, Rambøll  
 Eugen Brühwiler, EPFL, Switzerland  
 Hyun-Moo Koh, Seoul National University, Korean  
 Iben Maag, Danish Road Directorate  
 Jacob Wittrup Schmidt, Technical University of Denmark  
 Joan Ramon Casas, Universitat Politècnica de Catalunya, Spain  
 José Matos, University of Minho, Portugal  
 Lennart Elfgren, Luleå University of Technology, Sweden  
 Mette Sloth, COWI  
 Morten de la Motte, Rambøll  
 Naeem Hussein, Arup, Hong Kong  
 Niels Christian Skov Nielsen, Danish Road Directorate  
 Pat Moore, ARUP, Ireland  
 Poul Linneberg, COWI  
 Rade Hajdin, IMC GmbH, Switzerland  
 Silas Nørager, ARUP

### **Organising Committee**

Jens Henrik Nielsen, Technical University of Denmark  
 Erik Stokund Larsen, Danish Road Directorate  
 Niels Christian Skov Nielsen, Danish Road Directorate  
 DIS Congress Service Copenhagen A/S

## ***Further information***

Further information may be obtained from the IABSE conference secretariat:

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