

European Steel Bridge Awards 2018

Steel is recognized for its high potential in terms of strength, durability, design flexibility, adaptability, recyclability and reusability. Today's steel bridges allow the best adaptation to modern life and renovation of historical elements of our landscape, being in cities or country side. Steel is also the perfect material for reaching a circular economy while leaving the necessary room for creativity in design.

The European Steel Bridge Awards are given by the European Convention for Constructional Steelwork (ECCS) every two years to encourage the creative and outstanding use of steel in bridges. The awards are dedicated to the owners, the architects, the engineers and the steelwork contractors.

ECCS is the European Association of Steel Contractors, the unique platform gathering steel producers, contractors, researchers and academics. Its full members are 18 national steel contractor associations.

The International Jury 2018 was: **Pavel RYJACEK**, Czech Constructional Steelwork Association; **Dennis RADEMACHER**, Chairman of the ECCS Bridge Committee; **Georg PENDL**, President of the Architects' Council of Europe; **Aris CHATZIDAKIS**, President Elect of the European Council of Civil Engineers; **Roman KOUCKY**, Architect and Head of Metropolitan Plan Office, Prague Institute of Planning and Development; **Lasse KILVAER**, Chairman of ECCS Awards and Architecture Committee; **Véronique DEHAN**, ECCS Secretary General.

The European Steel Bridge Awards will be chosen among the finalists, which were chosen from the initial nominees. This year a record of 35 projects were submitted.

*The finalists for the European Steel Bridge Awards for the **Category Road and Railway Bridges** are: (alphabetical order by country)*

THE RAILWAY BRIDGE LINE HOHENAU-PREROV, CZECH REPUBLIC



The reconstruction consisted in the removal of a technically unsuitable bridge at km 80,930 of the railway line and provision of the requested railway line speed of 160 km/hour. The original three consecutive structures were replaced with a bridge with a single opening, as requested by the Morava River Basin Agency.

Owner: Správa železniční dopravní cesty

Architect: Václav Kocián

Engineering company: Exprojekt s.r.o

Contractor: FIRESTA - Fišer, rekonstrukce, stavby a.s.

RETHEBRÜCKE, GERMANY

The new Rethe Bascule Bridge across the Rethe (branch of the Elbe River) in Hamburg is to substitute the existing vertical lift bridge that was built in 1934 on one hand and to considerably improve the traffic situation of the road, rail and ship on the other hand.

The superstructure is divided in two parts, one for railway and one for road.

Owner: Hamburg Port Authority AöR (HPA) Neuer

Architect: Ingenieurbüro Grassl GmbH

Engineering company: Ingenieurbüro Grassl GmbH

Contractor: ARGE Rethebrücke (Hochtief, Bilfinger F+Z Baugesellschaft Bilfinger MCE, Waagner Biro) Hochtief Infrastructure GmbH



LOFTNESBRUI, NORWAY



Loftnesbrui is a 194-meter-long steel bridge, situated in the town of Sogndal by the Sognefjord. The bridge has a network tied arc in the main span, and the middle of the arc is 15 meters high, from top to bottom. The new Loftnesbrui bridge was built because the old bridge over the Loftnesnes sound was very narrow, and it was starting to show signs of wear and tear. The bridge from 1958 had almost no space for pedestrians.

Owner: Statens vegvesen Region vest

Architect: Eggen Arkitekter (Sveinung Jørum, architect)

Engineering company: ÅF Consult AS

Contractors: PORR AG/PNC Norge AS & K.A. Aurstad AS

ÅRSTABRON, SWEDEN

The Old Årsta Bridge was built to improve the railway infrastructure to and from Stockholm and was opened in 1929. Since 1986 the Old Årsta Bridge has been regarded as a "historic building", which means that the exterior cannot be altered. The old worn steel bridge deck was detached from the rest of the steel bridge and lowered down to a barge. It was removed and a new one arrived on another barge. In addition to the cultural-historical demands on the works, strict environmental requirements had to be met in order to avoid or limit environmental impact.

Owner: Swedish Transport Administration

Architects: Sven Markelius and Olof Lundgren. Consulting expert was Prof. Henrik Kreüger, Architect Cyrillus Johansson participated in the architectural design.

Engineering company: Ramböll

Contractor: Skanska Sverige AB



The finalists for the European Steel Bridge Awards for the **Category Pedestrian & Cycle Bridges** are:
(alphabetical order by country)

PARKBRUG SPOOR NOORD, BELGIUM



This pedestrian bridge is a symbolic passage between the city and the port of Antwerp, through a single span between the London Tower and the High School. Its slender shape and playful openings give it the look of a modern work of art. The exciting footbridge symbolizes the enormous revalorization that these once unfamiliar neighbourhoods have undergone in recent years. A bridge resting on two buildings is something quite rare. It was clear from the beginning that this would become an unavoidable landmark. Amongst

Owner: AG Vespa
Architect & Engineering company: Ney & Partners
Contractor: Emotec nv

FOOTBRIDGE FOR PEDESTRIANS, CYCLES AND REDUCED MOBILITY, LUXEMBOURG

The new bridge consists of a light steel deck, suspended at the concrete deck slab of the Adolphe Bridge. This new connection is barely visible from the outside and confers a refreshing contemporary design in symbiosis with the strength of the historic arches of the Pont Adolphe. The attractive access to the bridge will invite cyclists and pedestrians to choose a pleasant and comfortable alternative to cross the Petrusse Valley.

Owner: Ministère du Développement Durable et des Infrastructures-MDDI
Architect : CBA Christian Bauer & Associés
Engineering company : INCA Ingénieurs Conseils Associés
Contractors : Soludec & LuxTP



JUNGLE PEDESTRIAN BRIDGE, NORWAY



The bridge is in the Groruddal area, linking the city centre with the recreational areas east of Oslo. The Jungle bridge lifts the pedestrians up into the trees, respecting the untouched valley below. It is a simple suspension bridge over a small river, maximizing the use of prefabricated lightweight elements. Elements are hot-dip galvanized for corrosion protection.

Owner: City of Oslo
Architect: SAAHA
Engineering company: Degree of Freedom
Contractor: Implenia

Awards Ceremony for the European Steel Bridge Award 2018

The European Steel Bridge Awards 2018 will be given at a Ceremony during the 9th International symposium on Steel Bridges, on 11th September 2018 in Prague, Czech Republic. Winners will be announced during the ceremony and published on the ECCS website: www.steelconstruct.com. The material is copyright-free for press-release and publication referring to ECCS Steel Bridge Awards (no advertising).

Further information and pictures: www.steelconstruct.com

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