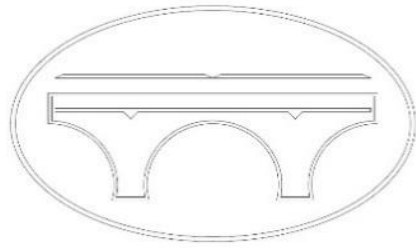




Mérnöki Szerkezetek
Szakosztály



HIDÁSZOKÉRT
EGYESÜLET



ESZTÉTIKAI MEGFONTOLÁSOK A HÍDÉPÍTÉSben

Dr. Balázs L. György

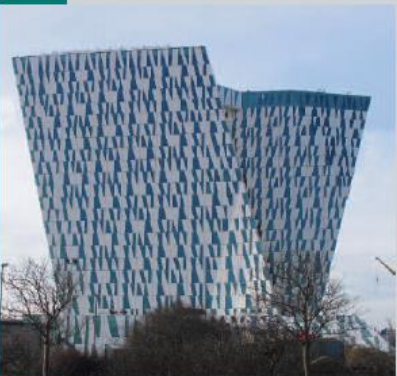
fib (Nemzetközi Betonszövetség) tiszteletbeli elnöke

BME Építőanyagok és Magasépítés Tanszék

balazs.gyorgy@epito.bme.hu

Kiss Bridge – Alicante, Spain





2014 *fib* AWARDS for OUTSTANDING CONCRETE STRUCTURES

2014 *fib* Awards fo

CHAIRMAN OF THE JURY'S FOREWORD



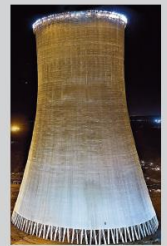
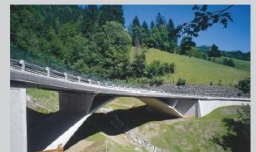
The Awards for Outstanding Concrete Structures were first presented at the FIP Congress in Hamburg in 1990. Since then, it became a tradition for FIP and then *fib* to present these Awards every four years at the *fib* Congress.

For the 2014 edition, *fib* National Member Groups were invited to submit applications for the Awards by 28 February 2013. A total of 44 entries were received from 21 different *fib* National Member Groups: 19 in the Buildings Category and 25 in the Civil Engineering Structures Category.

The Jury for the 2014 *fib* Awards for Outstanding Concrete Structures was composed of the following *fib*

Presidium members and Honorary Presidents (in alphabetic order): György L. Balázs, Gordon Clark, Michael Fardis, Harald S. Müller, Aurelio Muttoni (for the Civil Engineering Structures Category only), Tor Ole Olsen, Koji Sakai, Joost Walraven, Jun Yamazaki.

The Jury members received copies of the entries in March 2013 for their review. The Jury then met on 25th April 2013 in conjunction with the *fib* Symposium in Tel-Aviv. During the Jury meeting each entry was first examined and discussed in detail. The overall quality of the submitted entries was excellent and the jury was particularly impressed by the number of entries that used innovative materials and/or design and that took environmental and sustainability criteria into account. These criteria were an important part of the jury's evaluations of the submitted structures, as well as aesthetics and design detailing,



The Civil Engineering Structures Category is made up of 25 projects representing a diverse group of structures including viaducts, flyovers, bridges (prestressed concrete, suspended, cable stayed, extradosed) for road, rail or pedestrian traffic, cooling towers, oil tanks, a dam, shipyard and road side stop.

These projects are especially appreciated by the jury due to careful selection of structural systems and construction technologies, integration of the structure into its surroundings, the cement type and aggregate type, elegance, originality and beauty in form and appearance, high quality surface finishing, serious consideration for earthquake loads, use of advanced materials and reasonable use of resources for supporting sustainability.

All of these projects emphasize that the selection of structural concrete as a building material may provide optimal solutions considering technical, aesthetic, economic as well as sustainability aspects.

György L. Balázs
Chairman of the Jury



After lengthy deliberations, the jury selected a total of five structures as Award Winners and six as Special Mention recipients, which are presented in this brochure.

The Jury takes this opportunity to thank all *fib* National Member Groups and applicants for their entries, and sincerely congratulates all the Winners and recipients of Special Mentions for their structures demonstrating excellence in concrete construction.

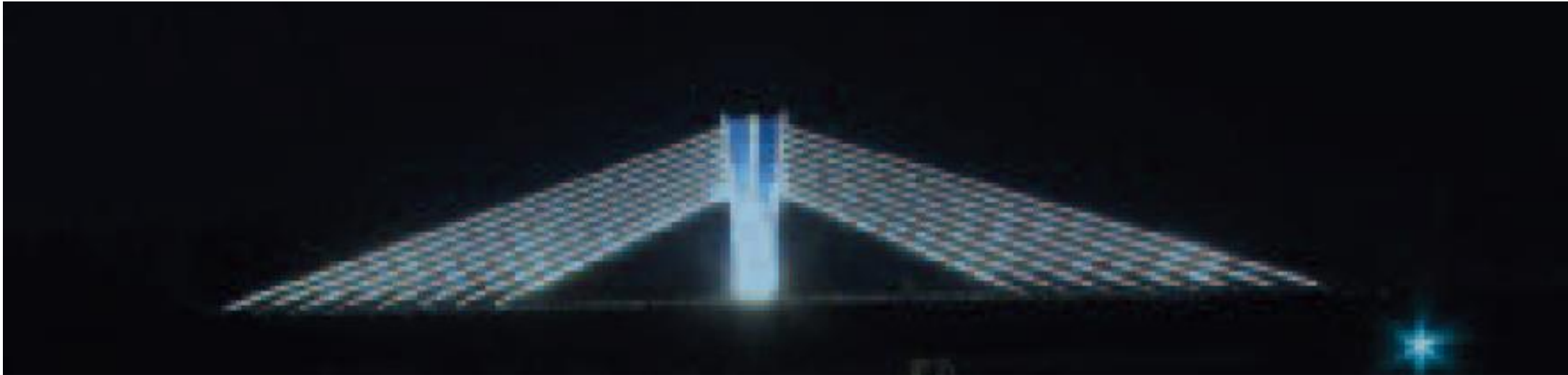
György L. Balázs
Chairman of the Jury



Winners, Special Mentions and Nominees



Móra Ferenc híd, Magyarország





ESZTÉTIKA és EGYEDISÉG

Egyediség, formai újszerűség





ESZTÉTIKA és TARTÓSSÁG



Stress

Ribon

Bridge

Stress Ribon Bridge



WINNER

EGG-GRABEN BRIDGE

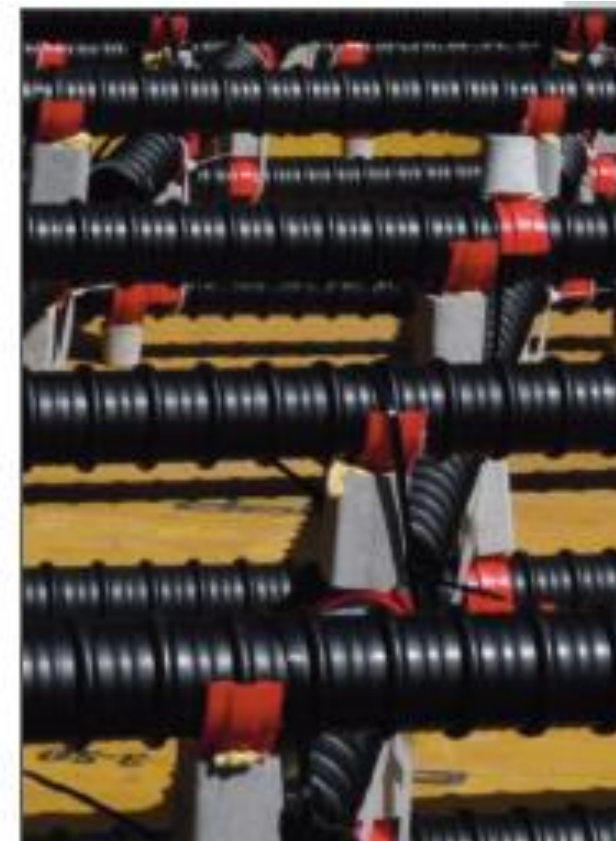
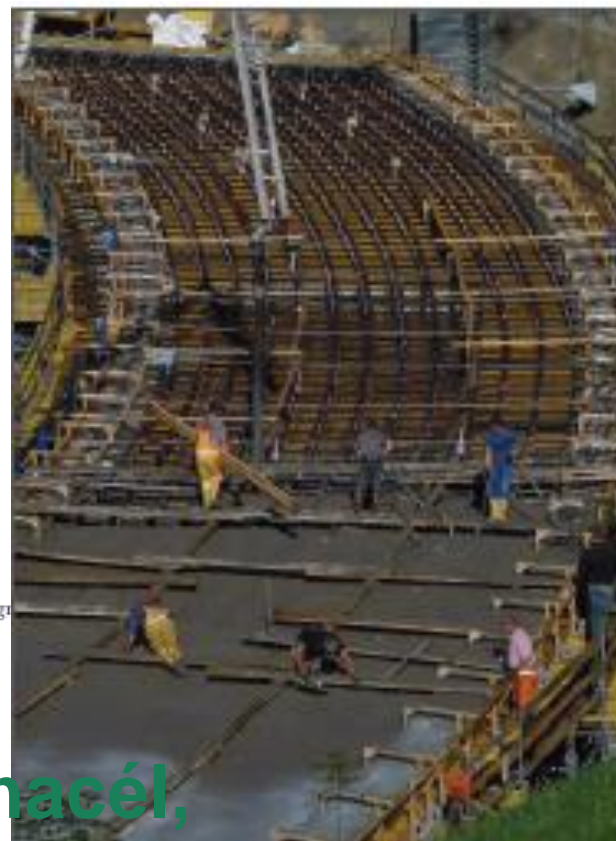
VALLEY OF GROSSARL, AUSTRIA

Követelmény: - esztétikus és - tartós legyen Utófeszített pászmák + vízhatlan lehorgonyzófejek

$l=50\text{ m}$, $r=50\text{ m}$



Owner: Land Salzburg, Landesbaudirektion, Referat Brückenbau
Main authors: Prof. Dr. Johann Kollegger, conceptual design; Dr. Sebastian Zoran Bruschetini-Ambro, structural design;
DI Johannes Berger, structural design
Other participants: DI Franz Brandauer, conceptual design; DI Werner David, conceptual design; Thomas Mayrhuber, conceptual design
Dr. Hans-Georg Leitner, structural design and construction drawings
Contractor: Alpine Bau GmbH
Subcontractors: Grund- Pfahl- und Sonderbau GmbH
Completion: 2009



Nincs pályaszigetelés, nincs betonacél,
nincs peremtartó, nincs dilatáció

ESZTÉTIKA

és

KÖRNYEZETVÉDELEM

ESZTÉTKA, HIDAK ÉS KÖRNYEZETVÉDELEM

Norvégia



ESZTÉTIKA

és

GYALOGOS HIDAK



owner: CTP Invest, spol. s.r.o.
main authors: Jiri Strasky, Vaclav Hlavacek, Petr Stefan
contractor: Skanska DS, a.s.
completion: 2007

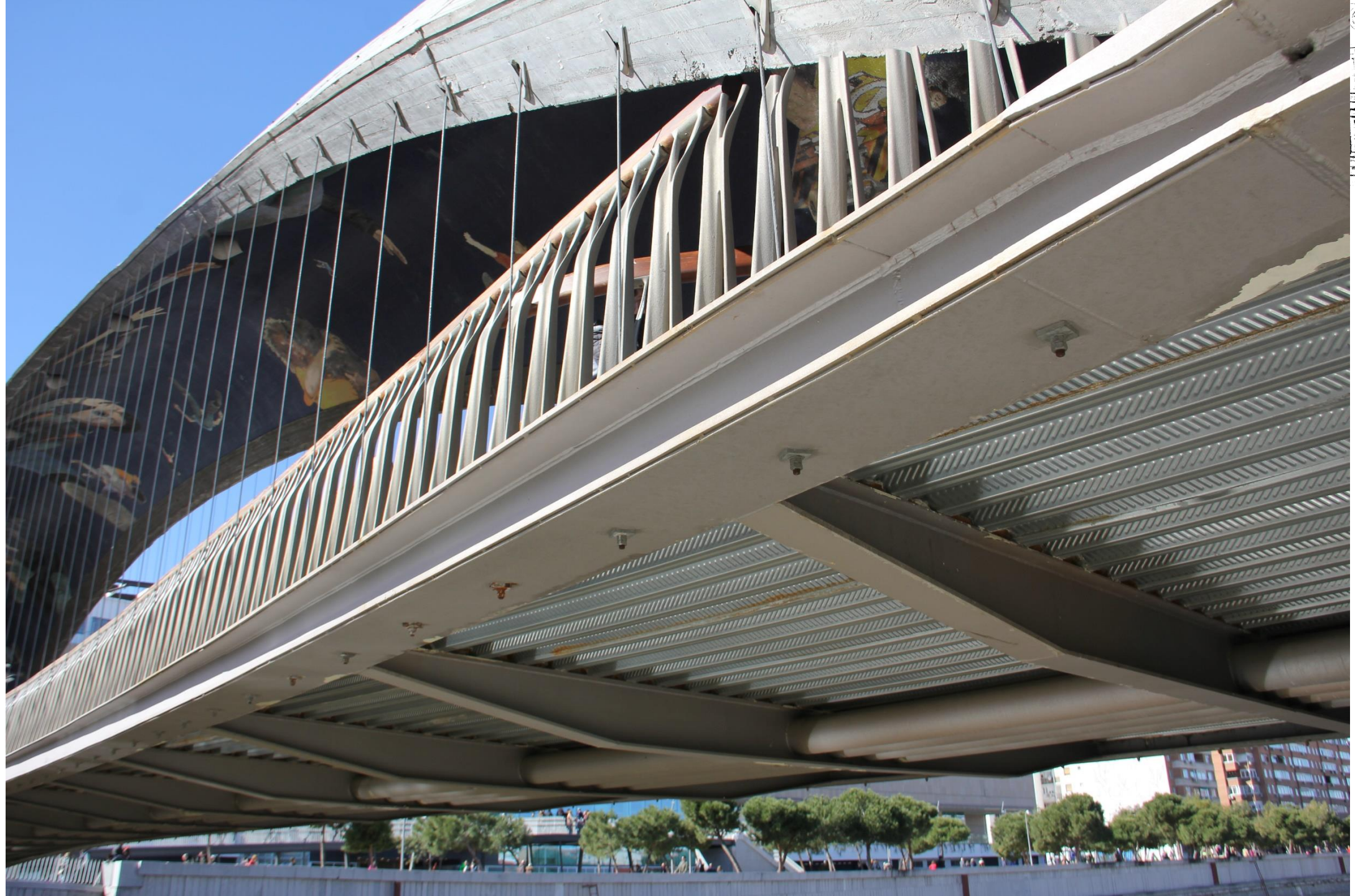




Ponte Matadero, Madrid, Spain











ESZTÉTIKA és ELEGANCIA

- statikai erőjáték
visszatükröződése -

Sunshine Skyway Bridge, Florida, USA

Könnyedség, elegancia

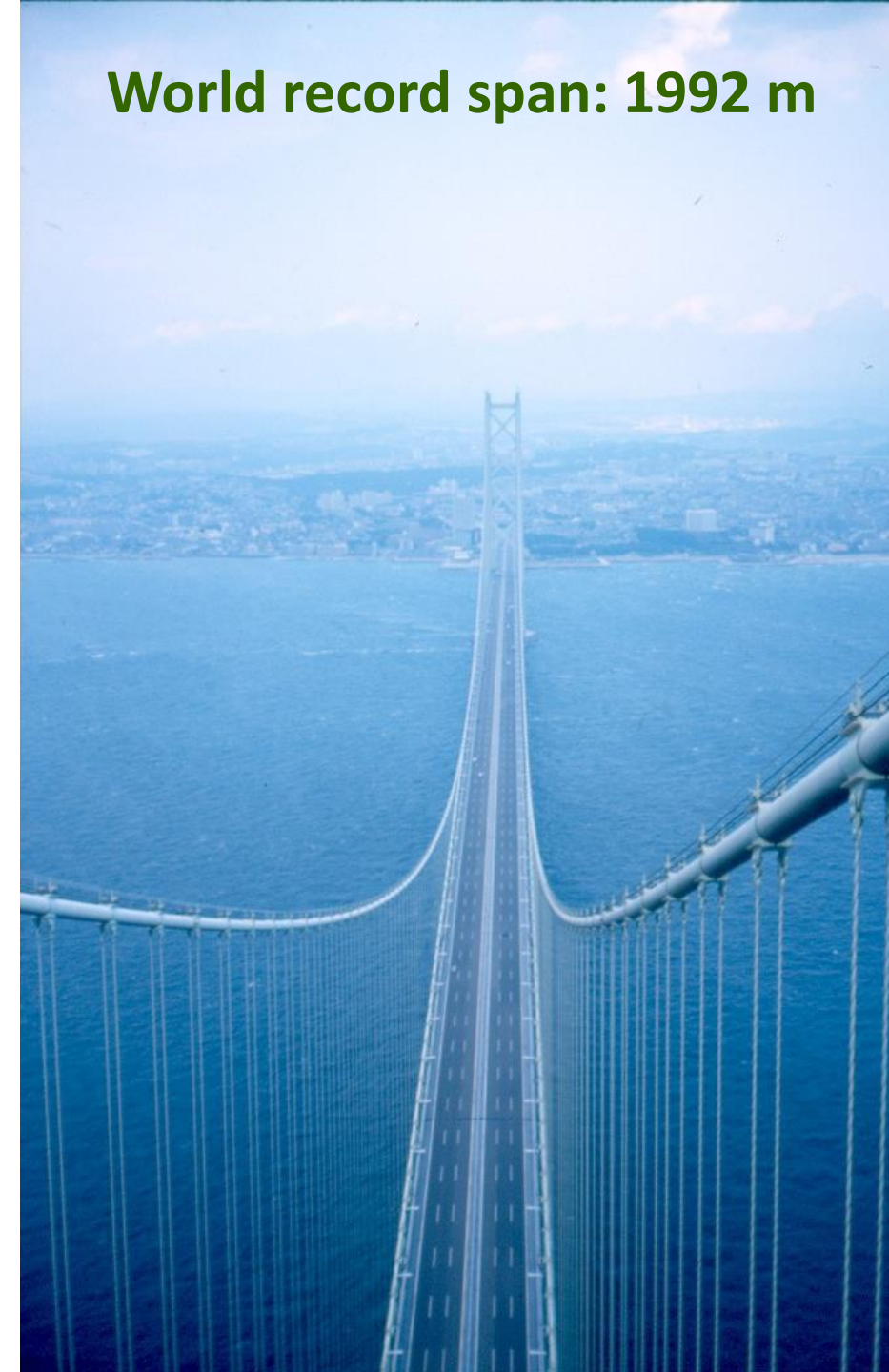


Rion-Antirion Bridge - Greece



Akasi Kaikyo Bridge, Kobe, Japan

World record span: 1992 m



ESZTÉTIKA

és

SZERKEZET ÖSSZHANGJA

WINNER

TÉRÉNEZ BRIDGE

ROSNOËN (BRITTANY), FRANCE

Owner: Conseil général du Finistère, Quimper, France

Main authors: Michel Virlogeux, conceptual design; Charles Lavigne, architect; Emmanuel Bouchon, head of the S etra design team

Other participants: Florent Imbert, S etra structural engineer; J er me Petitjean, S etra structural engineer; Jean Vassord, Arcadis ESG execution design

Contractor: Vinci Construction France - Dodin Campenon Bernard

Subcontractor: Freyssinet (stay cables); Arcadis ESG - GTM (execution design)

Completion: 2011

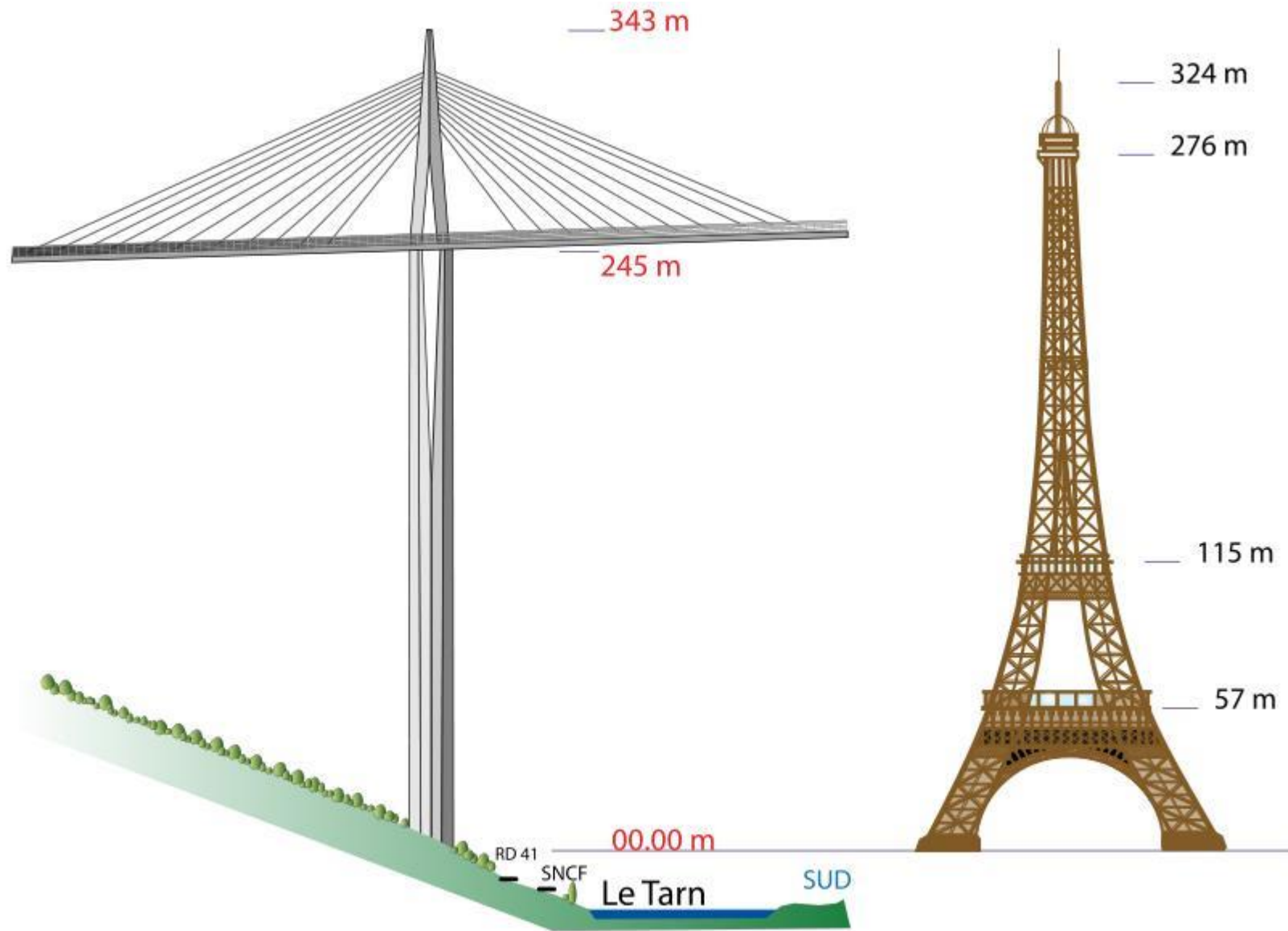


Ferde k abeles
L=525 m, l =285
r=800 m horizontal

Lambda pylons



Millau Viaduct - France



Millau Viaduct - France



Millau Viaduct - France





Millau Viaduct



Winning structure:
Wadi Abdoun Bridge, Jordan



Winning structure: **Wadi Abdoun Bridge, Jordan**



Sunniberg Bridge, Davos, Switzerland



Sunniberg Bridge, Davos, Switzerland



ESZTÉTIKA és KÖRNYZETBE VALÓ ILLESZKEDÉS

Salginatobel Bridge, Switzerland (1930)



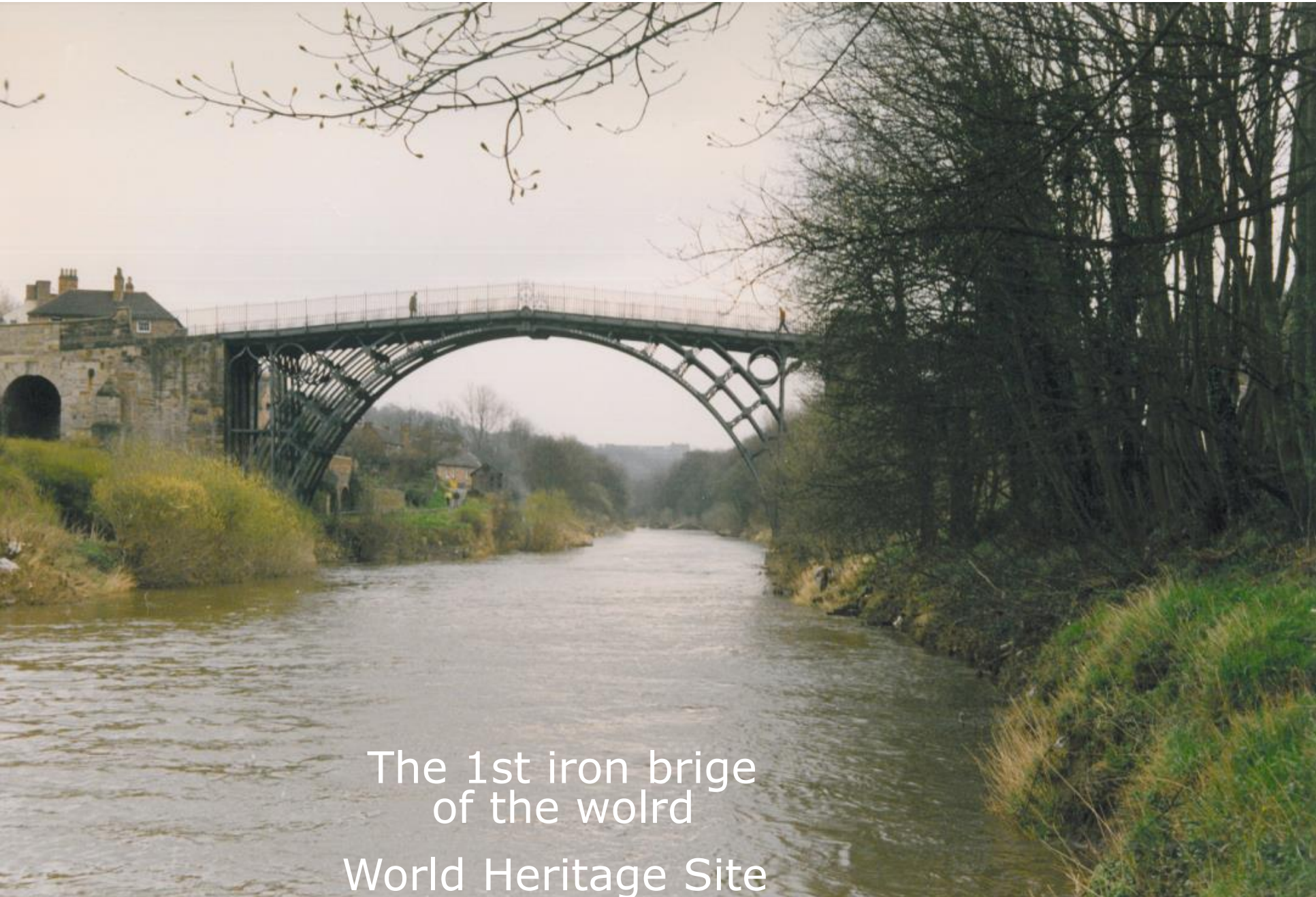
Robert Maillart



Ponte Milvius, Rome (109 BC)



The Iron Brige, River Severn, Coalbrookdale, UK



The 1st iron brige
of the wolrd
World Heritage Site



1779



Abraham Darby III (1750+1791)



Meslenica Bridge





SPECIAL MENTION

**HOOVER DAM BYPASS / MIKE O'CALLAGHAN-PAT
TILLMAN MEMORIAL BRIDGE**

CLARK COUNTY NEVADA, MOHAVE COUNTY ARIZONA, USA





ESZTÉTIKA és KÜLÖNLEGES ANYAGOK, MEGOLDÁSOK

Shizuoka Bridge, Japan



Nominated structure: **Seishun Bridge, Japan**



Gateshead Millennium Bridge



Gateshead Millennium Bridge

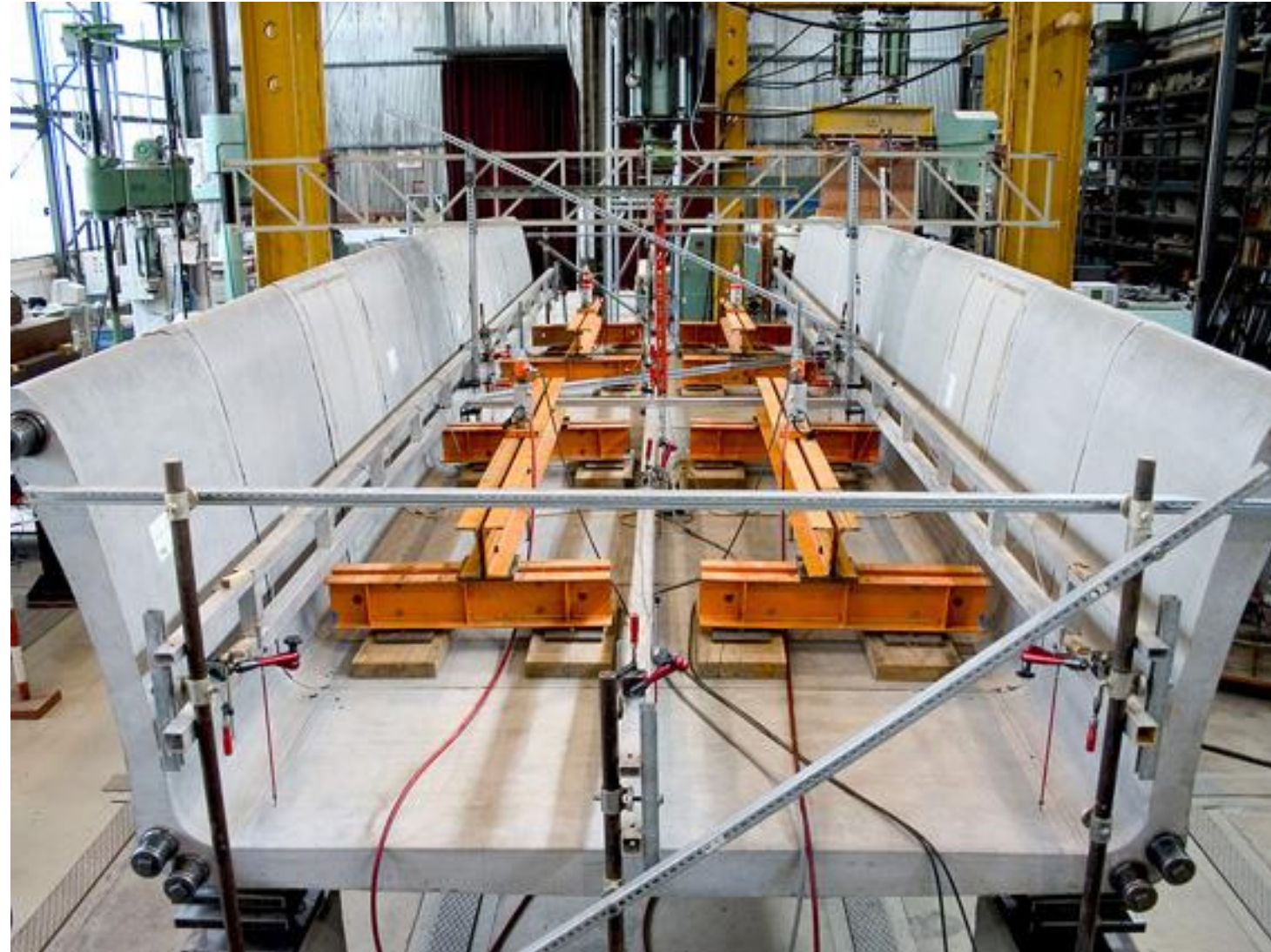


HÍDESZTÉTIKA
SZAKMAI NAP
2018. november 27.

Gateshead Millennium Bridge



Döllnitz Creek Bridge - Oschatz, Germany



Butterfly Bridge, Japan

Akio Kasuga



1. UHPC Gyaloghíd, Scherbrooke



SPECIAL MENTION

SUSTAINABLE MODULAR UHPFRC BRIDGE

ROTTERDAM, THE NETHERLANDS

Owner: Gemeente Rotterdam (Municipality of Rotterdam)

Main authors: D.L. Tirimanna, project leader; B. van den Broek, structural engineer; J. Falbr, structural engineer (FDN Engineering BV and FDN Construction BV), Chris Bosse, design architect

Other participants: M. Said, advisor; C Blom, advisor; T. de Vries, structural engineer

Contractor: FDN Group

Completion: 2012



Sustainable modular UHPFRC Bridge





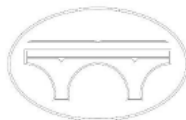
KÖSZÖNÖM A MEGTISZTELŐ FIGYELMET

9:00 – 9:30	Regisztráció
9:30 – 9:40	Megnyitó Sitku László, Hidászokért Egyesület
9:40 – 10:00	Az előzmény: Hídesztétika ankét 2005-ben Dr. Tóth Ernő, Hidászokért Egyesület
10:00 – 10:20	Hídesztétika kutatás Salné Balogh Erzsébet, A-Híd Zrt.
10:20 – 10:40	Alkotás, művészet, híd Horváth Adrián, Főmterv Zrt.
10:40 – 11:00	A hídesztétika szerepe és megvalósulása a tervezés folyamatában Mátyássy László, Pont-Terv Zrt.
11:00 – 11:20	Jellegzetes, érdekes és értékes vasbeton hidak Dr. Tóth Ernő, Hidászokért Egyesület
11:20 – 11:40	Estztétikai megfontolások a hídépítésben Dr. Balázs L. György, BME
11:40 – 12:40	Ebéd (szendvics, pogácsa, üdítő, kávé)
12:40 – 13:00	Vasúti hidak esztétikája Gyurity Mátyás, MSc Kft.
13:00 – 13:30	Régi, boltozatos hidak felújításai Rajna József, Magyar Közút NZrt. Heves Megyei Igazgatóság
13:30 – 13:50	Hidak díszkivilágítása Deme László, Lysis-Projekt Kft.
13:50 – 14:20	Új hidak a Dunán (határainkon túl) Gyukics Péter, Yuki Stúdió
14:20 – 14:30	Zárszó

Helyszín: Budapesti Műszaki és Gazdaságtudományi Egyetem, K épület 1. emelet, Díszterem
(1111 Budapest, Műegyetem rkp. 3.)



Mérnöki Szervezetek
Szakosztály



HIDÁSZOKÉRT
EGYESÜLET



Dr. Balázs L. György
fib (Nemzetközi Betonszövetség) tiszteletbeli elnöke
BME Építőanyagok és Magasépítés Tanszék
balazs.gyorgy@epito.bme.hu