

ISTANBUL BRIDGE CONFERENCE

NOVEMBER 5-6, 2018
Hilton Hotel, İstanbul, Turkey

NOVEMBER 5, 2018 MONDAY

12:00-12:30 REGISTRATION

12:30-13:00 OPENING SESSION

Turkish Association of Bridge & Structural Engineering

13:30-15:00 **Challenges in Construction & Design of Special Railroad Bridges**

Session Chair: Alp Caner (METU)

TCDD Current Railroad Bridges

Building the two largest High-Speed Railway arch bridges with fully autonomous MSS - António Póvoas (AP-Bridge

Construction Systems - Portugal, Lda)

The Ethiopia Railway Viaducts: Steel Girder Launching & Permanent Bearing Design - Kutay Kutsal (Freysaş Freyssinet Yapı Sistemleri)

Soil-Structure Interaction Analysis Of A Railway Bridge In Rotterdam - Cenan Ozkaya (Yuksel Proje)

Bridge Engineering Optimization Opportunities Through Integrated Solutions: Design – Constructive Method - Pedro Pacheco (BERD)

Silleda High Speed Train Viaducts (Spain): Incremental Launching & Heavy Lifting Piers - Emre Akyüz (CON-AK & MK4 Structural and Post-tension Technologies)

15:00-15:30 COFFEE BREAK

15:30-17:00 Technical Sessions

ŞADIRVAN A - Session Chair: Cem Özkaya

Performance of Performance-Based Seismic Design: Premature Exuberance for the As-Yet Untested? - Polat Gülkan (METU)

Seismic Performance of Bridge Systems Enhanced With Cellular-Solid Shear Walls - Spyridoula Maria Papathanasiou (National Technical University of Athens)

Design Challenges of Crossing a River: DIM Çayı Extradosed Bridge - Cemal Noyan Özel (Freysaş)

Weathering Steel - Daniel Bitar (CTICM)

Force Reduction Factors for Seismic Design of Bridges - Lan Lin (Concordia University)

Dynamic analysis of a pedestrian timber bridge - Zhan Xuefang (Central South Univ. of Forestry and Technology)

ŞADIRVAN B - Session Chair: Necati Çatbaş

Widening existing bridges - Enzo Siviero (eCampus University)

"Piccoli Angeli" Bridge Over Gorzone Canal In Cavarzere (Ve) - Alessandro Stocco (StudioIP)

Bridges - Some concept designs for Istanbul - Alessandro Stocco (StudioIP)

Construction of Namawukulu Bridge in Uganda - Sercan Durukan (IABSE Foundation)

Design of post tensioned box girder K3 Bridge in İzmir Bay Crossing Project, Sasalı Intersection

- Serkan Özen (Yuksel Proje)

Efficient Fire Hazard Mitigation for Suspension Bridge Cables - Jakob Laigaard Jensen (COWI)

SATURN - PDH Course

Live Load Models - Congested Traffic at Long Span Bridges offers 1.5 Professional Development Hour certificates
Limited to 10 participants

17:00-17:10 BREAK

17:10-17:40 Technical Sessions

ŞADIRVAN A - Session Chair: Enzo Siviero

Wind Response Of A Pylon Using Numerical Simulations Of The Atmospheric Boundary Layer And Fluid Structure Interaction (Fsi) - Roberto Gomez (Institute Of Engineering, UNAM)

Understanding the Construction Stage Analysis of Kozlupınar Bridge - Şefika Caculi (EMAY)

Predicting Time-Dependent Deformations of Prestressed Concrete Girders - Levent Isbiliroglu (ISTerre)

Using Neutron Diffraction to Quantify the Internal Mechanics of Parallel Wire Suspension Bridges - Adrian Brügger (Columbia Univ.)

ŞADIRVAN B - Session Chair: Khaled Mahmood

3D-BIM Bridge Model and Meaningful Structural Analysis - Vanja Samec (ALLPLAN)

LARSA 4D Analytical Object Modeling: BIM Ready Structural Modeling of Bridges - Tolga Kurt (LARSA)

Creating effective Management, Operation & Maintenance on future and existing Major Bridges by a digitalized approach - Niels Bitsch (COWI)

Wind Design of Long Span Bridges - Ahmet Özkan (T-Engineering)

Design of İzmir Bay Crossing Bridge - Burak Kurtman (Yuksel Proje)

NOVEMBER 6, 2018

TUESDAY



- 09:30-10:00 **OFFICIAL WELCOMING**
Enver İskurt (Deputy Minister of Transportation and Infrastructure)
Abdulkadir Uraloğlu (Director General of Turkish Highways)
- 10:00-11:30 **Special Session : Çanakkale 1915 Bridge**
Session Chair: Polat Gülkan (METU)
Keynote Speaker: Ersin Arıoğlu (Yapı Merkezi)
Invited Speakers:
Sezgin Küçükbeğir (Turkish Highways)
Seçil Cam (Tekfen)
- 11:30-11:50 COFFEE BREAK
- 11:50-13:10 **KGM Special Session : Special Bridges of Turkish Highways**
Session Chair: Aydın Doğan (KGM)
Plenary Speaker: New Trends in Earthquake Resistant Design and Live Load Design at Cable-Supported Long Span Bridges in Turkey - Nurdan Apaydın (KGM)
Invited Speakers
Selection & Analysis of Foundation of Bridges - Sina Kızıroğlu (KGM)
Preliminary Design and Construction Stages of Some Different Types of Long Span Bridges in Turkey - Yeşim Esat (KGM)
Mimar Sinan's Historic Büyükçekmece (Kanuni Sultan Süleyman) Bridge - Ayşe Avşin (KGM)
Reinforcement of Beylerderesi Bridge with External Retaining Cables - Yavuzhan Taş (KGM)
- 13:10-14:00 LUNCH
- 14:00-14:50 **KEYNOTE SPEAKERS**
Session Chair: Nurdan Apaydın (KGM)
Maintenance and Management of long span cable supported bridges: problems and solutions - Airong Chen (Tongji Uni.)
Towards International Specifications for Long Span Bridges - Khaled Mahmoud (BTC, USA)
- 14:50-15:00 BREAK
- 15:10-16:10 **IABMAS Special Session : Structural Monitoring**
Session Chair: Nurdan Apaydın (KGM)
INVITED SPEAKERS
Once upon a time in Italy: the tale of the Morandi Bridge - Prof. MICHELE CALVI (Istituto Univ. di Studi Superiori di Pavia)
Re-birth of the Morandi Bridge in Genoa - Prof. BRUNO BRISEGHHELLA (Fuzhou University), Prof. CAMILLO NUTI (University of Roma Tre), Prof. IVO VANZI (University of Chieti-Pescara)
Can Novel Technologies Mitigate Bridge Failures? - Prof. NECATİ ÇATBAŞ (University of Florida)
- 16:10-16:30 COFFEE BREAK
- 16:30-18:00 Technical Sessions
- ŞADIRVAN A - Session Chair: Yeşim Esat**
Challenges in Construction & Design of Special Bridges of Turkish Highways
"1915 Çanakkale Bridge – Meeting the Challenge - Inger Birgitte Kroon (COWI)"
Reconstruction of Partially Collapsed Post-Tensioned Begendik Bridge During Balanced Cantilever Construction - Alp Caner (METU)
Izmit Bay Suspension Bridge – Vibration control of Tower by Active mass damper - Tunç Çetinkaya (IHI)
Design & Construction of Limanyolu Viaduct (North Marmara Highway) - Boris Wiesler (Wiacon)
Incremental Launching by Lag-Casting: Ihsaniye Viaduct - Hatice Karayığit (Freysaş Freyssinet Yapı Sistemleri)
- ŞADIRVAN B - Session Chair: Michele Calvi**
Hammersmith Flyover: a Completely Innovative Renovation- Huynh Tuong Alain (FREYSSINET)
Strengthening of the Ricamarie Viaduct, France - Huynh Tuong Alain (FREYSSINET)
Analysis of Girder Bridges during Deck Construction using 7-DOF Frame Element - Li Hui (Saint Louis University)
Load Distribution And In-Plane Superstructure Movements On Highly Skewed Steel Girder Bridges - Pinar Okumus (University at Buffalo, The State University of New York)
Al Bustan South Bridge Design and Build Project - Ali Kara (Qatar Public Works Authority)
Resonance Characteristics of High-Speed Railway Bridges Equipped with Passive Control System - Ali Etemadi (Istanbul Gelisim University)
Design Of Bridge Expansion Joints To Enable Them And Connecting Superstructures To Avoid Destruction During Earthquakes - Niculin Meng (Mageba SA)
- SATURN - Session Chair: Selçuk Baş**
Research On The Environmental Impact Of Steel Bridge Deck Pavement Based On Life Cycle Analysis - Zhang Xiangfei (Intelligent Transportation System Research Center, Southeast University)
Large-Scale Testing of Bridge Decks Using Shrinkage Mitigating Materials: Type-K Expansive Cement and Internally Cured Lightweight Aggregate - Mohammad Rahman (Department of Civil Engineering, Saint Louis University)
Effect of Skew Angle on the Rotation of Exterior Girders during Construction - Faress Hraib (Saint Louis University)
Influence of the Initial Imperfection Mode on Lateral Torsional Buckling (LTB) Response of Doubly-Symmetric Steel I-Beams - Selcuk Bas (Bartın University)
The First Single Expansion Joint Bridge In China - Yi-bin Zhao (Central South University of Forestry and Technology)
Bridge Design - Geometry, Structure and Enclosure - Aurgho Jyoti (Skidmore, Owings and Merrill LLP)