

10th Japanese-German Bridge Symposium in Munich

September 16. at the Technical University of Munich

Timetable		Session
08:00	09:30	Registration, Get Together
09:30	10:00	Coffee Break
10:00	10:30	Opening Ceremony
Keynote Lecture I		
10:30	11:00	<i>G. Harsville</i> Steel and Composite Bridges - Current Developments and Problems
11:00	11:30	<i>O. Fischer</i> Recent Tendencies and Developments in Prestressed Concrete Bridges in Germany and Europe
11:30	12:00	<i>J. Kollegger, S. Foremniak, B. Kromoser</i> Innovations for the Design of Concrete Bridges Developed at Vienna University of Technology
12:00	13:30	Lunch
Keynote Lecture II		
13:30	14:00	<i>P. Maier, U. Kuhlmann, M. Pfaffinger, M. Mensinger, S. Schneider, T. Zinke, T. Ummerhofer, H. Friedrich</i> Sustainability Assessment of Bridges - Recent German Research Results
14:00	14:30	<i>T. Zinke, T. Ummerhofer</i> Sustainability Assessment of Bridges - Life-Cycle Costs and External Effects
14:30	15:00	<i>S. Inoue, N. Yokoyama, O. Ohyama</i> Effect of Fire Damage on the Residual Prestress and Load Carrying Capacity of Pre-Tensioned Prestressed Concrete Beams
15:00	15:30	Coffee Break
Keynote Lecture III		
15:30	16:00	<i>N. Yoshioka, K. Hashimoto, Y. Suzuki, K. Suglura, H. Tachibana, K. Egashira</i> Assessment of Remaining Structural Safety of Continuous Steel Girder Bridge with Fatigue Crack in Web Plate
16:00	16:30	<i>H. Fujibayashi, N. Nora, A. Kurita</i> Time-dependent deterioration and repairing examples by salt damage in pre-flexed beam bridges in Japan
16:30	17:00	<i>M. Rutner, D. Vaccari, C. Moen, A. Tawin</i> Infrastructure On-Site Blast Vulnerability Assessment and Prediction Capability
17:30		Welcome Party, Reception, Cocktail Hour

10th Japanese-German Bridge Symposium in Munich
September 17. at the University of the German Armed Forces

Timetable		Session		
		1	2	3
08:45	09:00	Opening Ceremony		
		Bridges and Bridge Design I	Materials and Structures I	Damage and Repair
09:00	09:20	<i>J. Hegger, M. Herbrand</i> Assessment of the Shear Capacity of Existing Bridges - Short Term Solutions	<i>Y. Mitsugi, K. Funayama, H. Ookawa, T. Yamaguchi, T. Takai</i> Experimental Study on the Ultimate Load and Deformation for High Strength Bolted Joint after Slip	<i>N. Yoshioka, K. Hashimoto, Y. Suzuki, K. Suglura, H. Tachibana, K. Egashira</i> Assessment of Residual Load carrying Capacity of Composite Steel Girder Bridge with the Corrosion Damage at Girder Ends
09:20	09:40	<i>M. Fuchs, K. Gaj, W. Willberg</i> The Bergen Viaduct - Previous Structure and New Prestressed Concrete Bridge	<i>A. Näbli, M. Mensinger</i> Controlling Longitudinal Support Reactions of Railway Steel Bridges With the "Control-rod-system Meyer/Wunstorf" and Experimental Results of the Relevant Construction Details Incorporating Industrial Radial Spherical Plain Bearings	<i>M. Niederwald, M. Keuser, K. Gaj, S. Geuder</i> Investigation of the Load Bearing Behaviour of Existing Bridge Caps subjected to Accidental Loads due to Impact on Vehicle Restraint Systems
09:40	10:00	<i>T. Stihl</i> Sustainable Construction: Strengthening of a 60-Year-Old Suspension Bridge with Adjustment to the Increased Traffic Requirements of the Current Heavy Traffic	<i>J. Felix, J. Lechner</i> Development of a New Shear Strengthening Method for Existing Concrete Bridges	<i>T. Matsumoto, T. Hayashikawa, X. He</i> Study on the Damage Processes of CFRP Box Beams with the Use of Image Analysis
10:00	10:20	<i>J. Linhard, R. Hertle</i> Little Bridge vs. Big Bridge - Dynamic Interaction of Equalizing Plates at Bridge Joints with the Bridge Superstructure	<i>S. Marx, M. Wenner, R. Beifran</i> Long-Term Behaviour of Integral Concrete Constructions	<i>T. Yoshida, T. Matsui</i> The Development on Innovative Method of Corrosion Protection by Aluminum Magnesium Plasma Arc Metal Spraying for Repair of Girder End Areas of Existing Steel Bridges
10:20	11:00	Coffee Break		
		Bridges and Bridge Design II	Materials and Structures II	Monitoring
11:00	11:20	<i>S. Breunig, P. Maier, U. Kuhlmann, M. Pfaffinger, M. Mensinger, S. Schneider, T. Zinke, T. Ummerhofer, M. Neudeck, E. Koch</i> Sustainability Assessment of Railway Bridges - Influences of High Frequency Mechanical Impact Treatment on Fillet Welds under Transversal Bending	<i>T. Hirayama, K. Nogami, Y. Kishi, T. Yoda, H. Kasano, J. Murakoshi, H. Honda, D. Tashiro</i> Elasto-Plastic Behavior and Ultimate Strength of Steel Truss Bridge Considering Corrodes Gusset Plate Connections	<i>M. Rulmer, F. Fisher, L. Brunell, M. Controchio, L. Tesitore, J. Gombor, D. Jandreski, J. Murphy, C. Stecyk</i> Energy Harvesting for Continuous Structure Health Monitoring of Bridge Infrastructure
11:20	11:40	<i>J. Lingemann, M. Dabritz, A. Ranft</i> Smooth Incremental Demolition of the Valley Bridge BAB A7 Dollbachtal Utilizing a Movable Scaffolding - Specific Challenges for Design and Construction	<i>T. Mano, I. Mangerig</i> Tensile Load-Carrying Behaviour of Elastomeric Bearings	<i>K. Schütz, M. Schmidmeier</i> Monitoring and Damping of Stay Cables at the Rhine Bridge Flehe
11:40	12:00	<i>M. Hagedorn, T. Klahne, U. Heiland</i> Solutions for the Construction of Steel Bridges Using the Example of the Hochmosebrucke	<i>G. Luo, M. Mensinger, A. Näbli, G. Seidl, M. Feldmann, M. Kopp</i> The Influence of the Pull-Out Effect on the Load-Bearing Behaviour of External Reinforcement	<i>C. Grosse</i> Wired and Wireless Structural Health Monitoring of Bridges
12:00	12:20	<i>S. Kennedy, A. E. Martino</i> Sandwich Plate System "SPS" 1993-2014 - Introduction to a New Technology and Design for Fabrication of New Bridge Decks or Strengthening of Existing Bridge Decks	<i>C. Gläser, M. Schraml, M. Kasper</i> Extradosed Tendons for Chao Phraya River Crossing Bridge at Nonthaburi, Thailand	
12:20	14:10	Lunch		
		Bridges and Bridge Design III	Modelling and Simulation I	Fatigue and Dynamic
14:10	14:30	<i>S. Lüttger, R. Schitzig</i> Spectacular Bridge Construction in Sweden - The Sundsvall Bridge Sets New International Standards	<i>Y. Ikeda, T. Yamada, K. Tani, D. Sago, T. Yamaguchi, M. Matsumura</i> Analytical Study on Mechanical Behavior of the Rigid Connection for the Steel-concrete Composite Portal Rigid Frame Bridge with a Bearing Plate	<i>G. Albrecht, H. Ibach, J. Lützens, M. Mensinger</i> Saale-Elster Viaduct Double track railway bridge for high speed transportation up to 300 km/h - Tied arch bridge in consideration of questions regarding of dynamic behavior and with consequences of the constructive design
14:30	14:50	<i>D. Bühler</i> Two historic Railway Bridges in Mexico	<i>S. Sagaguchi, D. Mizutani, K. Obama, K. Kaito</i> Bayesian Estimation of Multi-Stage Weibull Deterioration Hazard Model	<i>M. Tsubomoto, M. Kawatani, K. Mori</i> Low Frequency Sound due to Traffic-Induced Vibration of Highway Bridges
14:50	15:10	<i>W. Elizer, V. Angelmaier, T. Mansperger</i> Tamina Canyon Crossing, Bad Ragaz, Switzerland	<i>G. Lener</i> Numerical Simulation of the Total Service Life Time of Steel Bridge Including Fracture Mechanic Concepts	<i>T. Zircher, M. Keuser, R. Grimm, M. Fiedler</i> Lateral deformations of bridges for the new high-speed railway VDE 8
15:10	15:30	<i>H. Trumpf</i> The Boekenhafen Bridge - A Benchmark in Innovative Sustainable Design	<i>J. Fink</i> Stress Analysis of the Forged Connection of Gusset Plates with Hangers Used in Tied Arch Bridges and Network Arch Bridges-Determination of Stress Concentration Factors	<i>T. Ishikawa, K. Ono</i> Influence of Revised Type I Design Earthquake Ground Motions on Dynamic Response of Steel Arch Bridges
15:30	15:50	<i>T. Mansperger</i> The Tied Arch Bridge of the Saale-Elster-Viaduct	<i>M. Keuser, R. Lener, M. Niederwald</i> Development of Safety Factors for Assessment of Existing Concrete Bridges Under Military Loadings	
15:50	16:30	Coffee Break		
		Bridges and Bridge Design IV	Modelling and Simulation II	Bond
16:30	16:50	<i>C. Butz, W. Fobo</i> Efficiency of Passive and Adaptive Tuned Mass Dampers for the Volgograd-Bridge	<i>S. Borjigin, C. Kim, K. Chang, K. Suglura</i> Dynamic Response Analysis of Vehicle-Bridge Interactive System Subjected to Strong Ground Motions	<i>F. Schächner, A. Keil</i> Design of an Inner-City Integral Composite Road Bridge
16:50	17:10	<i>M. Mensinger, M. Hierl, G. Seidl, K. Gaj, J. Lingemann</i> GreiBelbach Viaduct - Pilot Project Using Pre-stressed Bridge Deck Segments without Asphalt Layer	<i>S. Hashimoto, K. Ono, K. Endo, S. Okada</i> An Analytical Study on Elasto-Plastic Behavior of Steel Bridge Piers Made of SHY685	<i>C. Xu, H. Masuya, S. Fukuda</i> Mechanical Investigation on Stud Shear Connector in Steel Fiber Reinforced Concrete (SFRC)
17:10	17:30	<i>G. Seidl, W. Lorenc</i> Bridges Using External Reinforcement - State of the Art	<i>K. Hamamura, K. Ono, T. Nishioka</i> An Analytical Study on Elasto-Plastic Behaviour of Steel Box-Section Beams under Cyclic Shear Force	<i>N. Yanagisawa, Y. Imagawa, O. Ohya, A. Kurita</i> N-Q-M Interaction of Cross Sections in Steel-Concrete Composite Beam
17:30	17:50	<i>K. Azumi, K. Ono, M. Akiyama</i> An Analytical Study on Seismic Performance of Existing Circular-Section Steel Bridge Piers	<i>K. Hackl, J. Fink</i> An Integrative Model for the Description of the Dynamic Properties of a Ballasted Substructure	<i>K. Yamashina, T. Yamaguchi, E. Nagasaki, T. Takai</i> Slip Test of High Strength Bolted Friction Type Long Joints with Staggered Bolts Arrangements
17:50	18:10	<i>J. Casper</i> The Arch-Bridge over the IJssel, The Netherlands	<i>R. Friedl, I. Mangerig</i> Wheel force amplification of road vehicles with regard to the loads exerted on bridges and roadway expansion joints	<i>T. Giga, A. Tabata, S. Ono, T. Yamaguchi</i> Static Wheel Loading Test on U-shaped Steel Deck Retrofitted by Stud Bolts and L-Shaped Steel Plates
18:10	18:20	Closing Ceremony		
18:30		Symposium Banquet		