November 29-30 & December 1-2, 2010
InterContinental Shanghai Pudong Hotel

Bridge Tech 2010

Technology Outlines a Blueprint for Future Bridges

- Perfect Combination of Aesthetics and Functionality
- Prosperous Integration of Innovation and Safety

Organizers

Official Supporter

Co-sponsor

Endorsers

Media Partners
To whom it might concern

With the support of key authorities, “Bridge Tech 2010” will be held from 29th November to 2nd December 2010 in the Intercontinental Shanghai Pudong Hotel, China. It is co-organized by the Jiangsu Transportation Research Institute, the PRC Ministry of Communications and the Global Leaders Institute.

The International Association for Bridge and Structural Engineering (IABSE) confirms herewith support for BRIDGE TECH 2010 and agrees to be listed as

Official Supporter of BRIDGE TECH 2010

BRIDGE TECH 2010 shall offer the attendees a face-to-face communication chance with high-level officials, business leaders and experts from the global bridge industry. While sharing strategic ideas with each other, attendees can discuss hot issues to gain valuable insight into China’s bridge industry, and will get a better understanding of the world bridge market.

Ueli Brunner
Executive Director, IABSE
Based on these fast changing environment and the success of Bridge Tech 2009, **Bridge Tech 2010** emerges again. It will bring together decision makers and top-flight speakers to discuss hottest issues in bridge industry nowadays. It is designed for those who seek to explore the latest industry developments, to find the most efficient modes of cooperation, to experience the amazing technological innovation nowadays, and to gain the real business opportunities and benefits.

245 New Bridge Construction Projects in 31 Provinces with a total investment of up to RMB 150 billion in 2010

Background

Based on these fast changing environment and the success of Bridge Tech 2009. **Bridge Tech 2010** emerges again. It will bring together decision makers and top-flight speakers to discuss hottest issues in bridge industry nowadays. It is designed for those who seek to explore the latest industry developments, to find the most efficient modes of cooperation, to experience the amazing technological innovation nowadays, and to gain the real business opportunities and benefits.
Key Issues in 2010

★ The status quo and development trend of bridges industry
★ Current investment policy and new bridge projects in China
★ Bridge safety consideration under technological innovation
★ Bridge life-cycle cost design and applications
★ Bridge health monitoring and maintenance
★ Advanced bridge construction materials and equipment
★ Case sharing of world class bridges

Bridge Tech 2010 offers you

Worldwide attendees from 20+ countries and regions who specialize in various fields related to bridge industry.

Opportunities that acquire latest information for your strategic decision making process that you can neither get from internet nor industry reports because it’s first-hand.

Network effectively with your potential clients in comfortable and relaxing way such as cocktail party, coffee breaks and luncheon in 5-star hotel as well as bridge tour.

Distinguished speakers who are carefully researched and invited in order to guarantee this conference be notable for its high-level, international impact and archival quality.

Exposures on the media that you will be reported and interviewed like a star by 30+ Industry Media worldwide if you wish to.

Renowned bridge case sharing such as Hangzhou Bay Bridge, Sutong Bridge etc.

Friends who you share and express same perceptions and hungers with because “Great minds think alike”.

Unparalleled platform where you can efficiently showcase your latest products, solutions and technologies in front of 150+ decision makers.

Lessons where you can understand the up-to-date management ideas and technologies being applied from 30+ speeches, constant interactions and panel discussions.

Experience, just join & enjoy one-stop-shop for bridge!

Bridge Tech Summit has become one of the most exciting and significant annual events for bridge industry. It provides great opportunity for industry leaders not only from China but also other regions in the world to update their knowledge and exchange industry information.

Yang Genlin
General Manager
Jiangsu Communication Holdings Corporation

Network & Contact

Relax, Network and Make Contact!

Bridge Tech 2010 provides attendees more than 10 hours of precious networking time through perfect surroundings, including coffee and tea breaks, luncheon, cocktail party, and whole day bridge tour.

Speed networking is the most exciting part of the conference agenda, enabling you to build more interactive and efficient networking. Prepare enough business cards and join this exciting session to be familiar with as many new contacts as you can, with which consequent partnership will flourish for mutual success.

The 4th day visit will be arranged to cross Shanghai Changjiang Tunnel Bridge and arrive at its end: Chongming Island. This will help delegates have deeper communication while enjoying the masterpiece of modern bridge, as well as the idyllic scenery.

www.bridgetechsummit.com
## Conference Agenda

### Day One  
Monday, November 29, 2010

### Conference Pre-Workshop A: Bridge Anti – Corrosion

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Chairpersons</th>
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<tbody>
<tr>
<td>1330</td>
<td>Corrosion Mitigation — Design and Repair to Limit Impact of Corrosion</td>
<td>Delmar J. Doyle, Interim Executive Director NACE International, USA</td>
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<td></td>
<td>- Cost of corrosion</td>
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<td></td>
<td>- What to do in the design of bridges</td>
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<td>- How to reduce corrosion during construction</td>
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<td>- Inspection of older bridges</td>
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<td></td>
<td>Shao Xinpeng, Chief Engineer Qingdao Bay Bridge Command</td>
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### Conference Pre-Workshop B: Safety & Monitoring of Bridges

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<tbody>
<tr>
<td>1330</td>
<td>Structural Health Monitoring and Safety Evaluation of Cable-Supported Bridges</td>
<td>Wong Kai Yuen, Bridge Technical Advisor of Bridges and Structures Division Highways Department, Hong Kong</td>
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<tr>
<td></td>
<td>- The importance of Structural Health Monitoring in the Bridge Supervision and Post-construction</td>
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<td>- The significance and specific indicators of Monitoring Evaluation</td>
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<td></td>
<td>The anti-corrosion of stainless steel bar</td>
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### Coffee Break

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<tr>
<td>1530</td>
<td>The new type of protective coating with outstanding durability and ornamentality (sponsor opportunity)</td>
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### Panel Discussion: The integrated application of anti-corrosion technology and material in bridge construction

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<td>Panel Discussion: The Latest Technology, Research and Future Prospect of Structural Health Monitoring of Large Bridges</td>
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<td>The Structural Health and Safety Monitoring System and Design Proposal of Zhujiang HuangPu Bridge</td>
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<td>Health Monitoring and Non-destructive Inspection Technique</td>
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<td>Upgrading Project of JiangYin Bridge’s Structural Health Monitoring System</td>
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### The end of workshop

- Note: Conference Pre-workshops are intensive and interactive sessions that are especially designed for those who focused on the hottest issues of Bridge Tech 2010 this year. It provides unique opportunities to spend valuable time with industry experts, deeply discussing the detailed problems, solutions, innovations etc.
Morning Session: The Current Landscape and Future Development Trend of World Bridge Industry

0845 Opening Address
Xiang Haifan, Director General
Bridge and Structural Engineering Branch, China Civil Engineering Society

Fu Guanhua, CEO
Jiangsu Transportation Research Institute

0900 The Current of Bridge Construction Development and Current Investment Policies within China’s Bridge Industry
- The importance of bridge construction to the infrastructure and economic benefits
- Projects snapshot into 245 planning and undertaking bridge projects
Feng Maorun, Deputy Director of the Highway Division of the Committee of Experts
Ministry of Transport of the People’s Republic of China

0930 Preventing Structural Failures in Bridge Construction
- Failure
- Bridge construction
- Bridge safety
Predrag L. Popovic, President Elect
International Association for Bridge and Structural Engineering

1000 “Technology” Breaks the Record in Bridge Industry
- Independent technology innovation of bridge engineering in China
- Technical challenges and developments in Jiangsu bridge projects: Nanjing Yangtze River Bridge; Sutong Bridge; Da Shengguan Nanjing Yangtze River Bridge etc.
Yang Genlin, General Manager
Jiangsu Communication Holding Corporation

1030 Coffee Break

1100 Bridge Safety Considerations under Technological Innovations
- Thought-provoking bridges collapse
- Hidden danger of the accident and supervision
- Seismic protection and dynamic control of bridge conditions
Myint Lwin, Director of Bridge Division
Federal Highway Administration, USA

1130 Technology Solutions of the integration of Bridge Design, Construction and Maintenance (sponsorship opportunity)

1200 Luncheon

Afternoon Session: The Worldwide Bridge Cases Sharing and Engineering Technology Exploration for the Newly Built Bridge Projects in China

1400 Overall Plan of Hong Kong – Zhuhai - Macao Bridge: Large-scale Cross-Sea Project with High Quality
- Planning and control during the bridge design, construction, maintenance, resource management and equipments etc
- Bridge construction cooperation between three regions & the integration of island works, road bridge and tunnel Engineering
Su Quanke, Chief Engineer
Hong Kong –Zhuhai - Macao Bridge Advance Work Coordination Group Project Office

1430 The Engineering and Environmental Challenges of the Hong Kong Link Road
- The Strategic importance and economical benefits of the Hong Kong Zhuai Macao Bridge
- Alignment Selection of the Hong Kong Link Road
- Engineering Challenges
- Environmental Challenges
Tam Hon-choi, Chief Engineer of Hong Kong–Zhuai–Macao Bridge Hong Kong Project Management Office
Highways Department, Hong Kong

1500 Schematic Studies on the 2nd Bridge of Dongting Lake in Yueyang
- Project overview and evaluation of construction conditions
- Technical breakthrough in the research areas of seismic performance, wind resistance, driving comfort etc.
Chen Mingxian, General Secretary
Hunan Provincial Transport Department

1530 Coffee Break

1545 Bridge Design and Construction on the Basis of Bridge Life Cycle Analysis
- Prevention of collision and earthquake resistance of long-span bridges
- Comprehensive consideration of life-cycle cost during bridge planning, design, construction and operation
FAN Lichu, Academician
Chinese Academy of Engineering

1615 Integrated Programs of Large-scale Bridge Construction Supervision and Post-monitoring System
Day Two-Three  Tuesday, November 30  
Wednesday, December 1, 2010

1645 Design Concepts and Technical Support of Famous Bridges in Denmark
- The Great Belt
- Oresund Bridge
- Femer Bridge – Planning project between Denmark and German

Anton Peterson, Director of Bridge and Marine Transport Infrastructure
COWI, Denmark

1715 Panel Discussion: Technical Difficulties of New Bridges being Construction
Moderator:
Li Wanheng, Director of Bridge Division, Research Institute of Highway
China’s Ministry of Transportation
Panelists:
Anton Peterson, Director of Bridge and Marine Transport Infrastructure
COWI, Denmark
Zhong Hai, Deputy Executive Director
Zhejiang Jiaxing - Shaoxing Cross-sea Bridge Construction Command
Wang Mingluan, General Manager
Fujian Xiamen - Zhangzhou Bridge Construction Co., Ltd.

1745 Workshop C: Basics about Carbon Fiber Reinforced Polymers (CFRP) for Bridge Engineers
- Why CFRP
- Production and properties of cable fibers
- Pultrusion of CFRP: the most important process for bridge engineering
- Reliability if CFRP
- CFRP parallel wire bundles for high load-carrying capabilities
- Pin-loaded CFRP tendons for small to medium load-carrying capacities
- UV resistance
- Fire resistance
- How to avoid problems with lightning strikes
- High equivalent modules of CFRP stays
- Summary: Advanced versus disadvantages of CFRP in bridge engineer

Urs Meier, Deputy Director
Swiss Federal Laboratories for Materials Testing and Research (EMPA)

1815 End of DAY TWO

Day Three  December 1, 2010

Morning Session: The Application of Advanced Materials and Equipment in Bridge Engineering

0900 The World’s Top Engineering Created by Independently Developed Equipments in China
- The whole spiral steel pipe pile
- Specific pile driving boat: the largest and most advanced piling boat in Asia
- Equipment transit above 50 meter box girder

Zhu Yaohong, Deputy Chief Engineer
Hangzhou Bay Bridge Construction Command

0930 Carbon Fiber Reinforced Polymers (CFRP) Cables: An Enabling Technology for Very Long-Span Bridges
- The long-term experience with CFRP in bridge rehabilitation and new construction
- The opportunities for CFRP in bridge construction in present time
- The challenges for very-long span bridges in the future

Urs Meier, Deputy Director
Swiss Federal Laboratories for Materials Testing and Research (EMPA)

1000 Research and Application of Special Equipment for Steel Box Girders Lifting
- Lifting equipment for supporting span and lumpy girder
- Standard beam section lifting

Yao Pei, General Manager
Sutong Bridge Construction Co., Ltd.

1030 Coffee Break

1045 Water resistance technology in bridge construction and its corresponding solution
- Multifunctional and high-performance, waterproof and environment-friendly coating
- Structural defect of concrect bridge deck and waterproofing system
- Seamless spray applied in bridge deck waterproofing
- Case study: The “rainwear” of Caiyuanba Bridge

Zhao Jianfa, Deputy General Manager
The Sixth Engineering Bureau, China Railway Engineering Corporation (CREC)

1115 Equipment Innovation and its Application in Bridge Engineering (sponsorship opportunity)
- Expansion joint device type and the installation
- Technology innovation of bridge girder erection machine

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1145 Panel Discussion: Applications of Anti-corrosion and Waterproof Materials in Bridge Construction
- Seamless spray applied in bridge deck waterproofing
- Stainless steel rebar to solve the corrosion problem
Moderator:
Jean-Marc Tanis, Chairman, Association of French Civil Engineering (l’AFGC)
Panelists:
Kim Kyong Jim, Director
Korea Institute of Construction Technology
Cai Yisheng, General Manager
Guangdong Nan’ao Bay Bridge Constuction Company
Xie Daqi, General Manager
Shanghai Donghai Bridge Management Co., Ltd.

1200 Luncheon

Afternoon Session: The Technology Innovation for both Bridge Safety and Aesthetics

1400 The Bridge Design Research Based on the Life-cycle Cost Assessment
- The Content of Bridge Life-cycle Assessment (Design, Performance, Ecology, etc.) and the Tools (Cost Analysis, Risk Assessment, etc.)
- The Systematic Decomposition Method and Criteria for the Entire Life of Bridge Construction
- The Information Integration of Life-cycle for the Whole Bridge Construction Project
Zhang Xigang, CEO
Highway Consultants Co., Ltd., China Communications Construction Company LTD.

1430 Forth Replacement Crossing Scotland
Naeem Hussain, Worldwide Bridge Leader
Arup

1500 Incremental Launching Method Applied in Combined Bridges Construction
- Design difficulties and innovative ideas of composite bridge structures
- Incremental launching method principles and key construction techniques
- Case study: Hangzhou Jiubao arch bridge -- China’s first large-scale cross-river composite bridge using incremental launching method
Cheng Xiaodong, Deputy Chief Director
Zhejiang Hangzhou Jiubao Bridge Construction Command

1530 Coffee Break

1545 Key Technologies of Split-type Steel Box Girder Used in Xihoumen Bridge
- Reliability and significance of split-type Steel Box Girder
- Characteristics of load-carrying capability and the transit mechanism
Shen Wang, Director
Zhejiang Zhoushan Island Integration Project Construction Command

1615 Pre-stressing System for Bridge Engineering (sponsorship opportunity)

1645 Bridge Condition Diagnosis and Reinforcement Assessment
- Diagnostic Techniques for bridge fatigue damage and prediction of remaining life
- Advanced sensors and its optimization layout for bridge structural inspection
Motoi Okuda, Senior Director of Long-span Bridge Engineering Center
Honshu - Shikoku Bridge Expressways Co., Ltd. (HSBE), Japan

1715 Closing and Bridge-visiting Directions – the technical tops of Shanghai Changjiang Tunnel Bridge
- The longest tunnel and bridge combination construction in the world at present: Bridge, tunnel and railway
- The design of the biggest separated full-floating long span cable-staged bridge carrying both highway and light rail
- Long-span continuous combination box girder bridge and prefabricated pier extending construction
- Large-scale subgrade used of sands under river for the very first time
Dai Xiaojian, General Manager
Shanghai Changjiang Tunnel and Bridge Construction and Development Co., Ltd.

1745 End of summit

Day Four December 2, 2010

Bridge Tour
Shanghai Changjiang Tunnel Bridge & Chongming Island Tour

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