

# BRIDGE MAINTENANCE & REFURBISHMENT

11 - 12 September 2024  
JW Marriott Hotel Kuala Lumpur, Malaysia



# BRIDGE MAINTENANCE & REFURBISHMENT

11 - 12 September 2024 | JW Marriott Hotel Kuala Lumpur, Malaysia

tru  
event  
US®

*"No span of steel will tolerate neglect. But if serviced by generations who use it and spared manmade hazards, such as war, it should have life without end."* Joseph Baermann Strauss

– Chief Engineer of the Golden Gate Bridge

## EVENT OVERVIEW

The Francis Scott Key Bridge collapse in Baltimore on 26th March 2024 was an eye opener to the importance of routine bridge maintenance and refurbishment. From 1960 – 2015, 35 bridges around the world have collapsed due to collision with naval vessels causing mass casualties and damages. However, most ship collisions with bridges did not result in catastrophic outcomes as seen in Baltimore. A Coast Guard study published in 2003, found there have been 2692 incidents where ships collided with bridges in the USA. On average, that's about 5 incidents per week, however, 85% of those incidents resulted in minimal to zero damage.

Most modern bridges today are protected by a fendering system of concrete and other materials that's installed to absorb such collisions from large vessels. Which begs the question; could such a system or any collision absorption system have saved Baltimore's Francis Scott Key Bridge? The Baltimore bridge was built 'up to code', but regulations and policies predate the age of supersized vessels. Just over a month before, on 22nd February 2024 another ship collision caused the collapse of the Pearl River Bridge in Guangzhou, China. The collapse of these bridges has revived scrutiny on the overall health of bridges across the world, many of which are considered to be in poor condition or lack proper anti-collision systems. Collisions are not the only cause of major bridge collapses in recent years. A lot of these bridges are dated and haven't been properly maintained as seen in India, Mexico & Italy.

These incidents have prompted nations around the world to look at their own bridges, some of which are dated, to ensure a similar disaster doesn't repeat. Malaysia's longest bridge, The Penang Bridge closed one of its lanes for a whole year in 2017 to facilitate inspection and maintenance works in an effort to ensure the bridge's stability and safety. The Malaysian government addressed that RM2.8 billion would be allocated for federal roads, with a portion of it dedicated for maintaining bridges in the country. **The Bridge Maintenance Summit by Trueventus** aims to create a premier destination for professionals to learn and discuss the best methodologies on bridge maintenance. Gain an understanding on the importance of maintenance through various case studies and explore innovative approaches and systems in managing and maintaining bridges.

## WHY YOU CANNOT MISS THIS EVENT

- Discover how maintenance scheduling software are leveraged to deliver timely bridge repairs & maintenance
- Leverage digital design tools to evaluate the structural behaviour and performance under various scenarios
- Utilizing sensors, cameras, drones and satellite data to monitor the condition and performance of bridges
- Learn about next level generation materials emerging from the field of bridge engineering
- Gain insights on how leading bridge engineers implement bridge structural strengthening technology
- Attain a better understanding on bridge condition, behaviour and performance with Digital Twins

## WHO SHOULD ATTEND?

**Government Authorities & Ministries Director Generals, Secretary Generals, CXOs, Managing Directors, Executive Directors, VPs Heads, Engineers, Inspectors and key decision makers of:**

- Architecture
- Structural Engineering
- Civil Engineering
- Construction
- Project Management
- Geotechnical Engineering
- Bridge Maintenance
- Welding & Metal Works
- Concrete Works

**From the following industries:**

- Infrastructure
- Engineering
- Development
- Urban Planning
- Transportation
- Construction
- Architecture
- Real Estate
- Government Authorities
- City Councils

FOR FURTHER DETAILS, CONTACT

**CASEY LEE**

☎ : +60327750000 ext.613 ✉ : caseyl@trueventus.com

# BRIDGE MAINTENANCE & REFURBISHMENT

11 - 12 September 2024 | JW Marriott Hotel Kuala Lumpur, Malaysia

tru  
event  
US®

## CONFERENCE AT A GLANCE

### Day One: Wednesday, 11 September 2024

0800 **Registration & Coffee**

0850 **Chairperson's Welcome Address**

0900 **Session One**

Advanced Anti-Collision Systems to Protect Bridge Beams from High Impact Hits

0945 **Session Two**

Limiting Resonance of Suspension Bridges During Harsh Winds

1030 **The Speed Networking - The Mad Minutes!**

*Fun and fast, this networking activity is a great opportunity to grow your connection*

1100 **Morning Refreshments**

1130 **Session Three**

Bridge Strengthening by Enlarging Structural Section of Concrete Beams

1215 **Session Four**

External Prestressing of Beam Lower Edges to Offset Weight and Restrain the Deformation of the Structure

1300 **Networking Luncheon**

1400 **Session Five**

Utilizing Bonding Agents to Bond Steel Plates to Bridge Beams to Improve Rigidity and Bearing Capacity

1445 **Session Six**

Leveraging Composite Fiber Materials to Strengthen Piers in Highway Bridges

1530 **Afternoon Refreshments**

1600 **Session Seven**

Addressing Corrosion of Steel Bridges Across Rough Waters

1645 **Session Eight**

Digital Twin Framework for Structural Health Monitoring of Bridges

1730 **End of Day One**

### Day Two: Thursday, 12 September 2024

0830 **Registration & Coffee**

0850 **Chairperson's Welcome Address**

0900 **Session One**

Upgrading Old Bridges for Better Preparedness to Current Day Risks

0945 **Session Two**

Refurbish or Rebuild: Determining the Feasibility Based on Current Day Needs

1030 **Morning Refreshments**

1100 **Session Three**

Redefining Bridge Inspections with 360-Degree Cameras

1145 **Session Four**

Accessing Real-Time Information and Promoting Reliable Decision-Making in Bridge Maintenance with Cloud Technologies

1230 **Networking Luncheon**

1400 **Session Five**

Predict the Time for the Next Maintenance Session with Advance Maintenance Analytics

1445 **Session Six**

Assessing Corrosion Damage in Suspension Bridge Main Cables and Conducting Appropriate Refurbishment Works

1530 **Afternoon Refreshments**

1600 **Session Seven**

Utilizing 3D Scanning to Capture the Whole Topographic Map of the Bridge for Improved Assessment and Inspections

1645 **Session Eight**

Managing & Controlling Flexing of Bridge Spans in High-Speed Wind Conditions

1730 **End of Conference**

FOR FURTHER DETAILS, CONTACT

**CASEY LEE**

☎ : +60327750000 ext.613 ✉ : caseyl@trueventus.com

# BRIDGE MAINTENANCE & REFURBISHMENT

11 - 12 September 2024 | JW Marriott Hotel Kuala Lumpur, Malaysia

tru  
event  
US®

## COMPANY DETAILS

Name	Industry
Address	
Postcode	Country
Tel	Fax

## ATTENDEE DETAILS

1	Name	Job Title
	Tel	Email
2	Name	Job Title
	Tel	Email
3	Name	Job Title
	Tel	Email
4	Name	Job Title
	Tel	Email
5	Name	Job Title
	Tel	Email

## APPROVAL

NB: Signatory must be authorised on behalf of contracting organisation.

Name	Job Title
Email	
Tel	Fax
Authorising Signature	

## REGISTRATION FEES

	Corporate
End of May 2024	MYR 4995 + 8% SST (Per Delegate)
End of June 2024	MYR 5995 + 8% SST (Per Delegate)
1st July 2024 onwards	MYR 8995 + 8% SST (Per Delegate)

All options inclusive of delegate pack, luncheon and refreshments.

## PAYMENT METHODS

Payment is due in 5 working days. By Signing and returning this form, you are accepting our terms and conditions.

Bank Transfer

Credit Card

## REGISTER NOW

Casey Lee

T: +60327750000 ext.613

E: caseyl@trueventus.com

Take a Snapshot or Scan and Email us

## TERMS & CONDITIONS

- The course fee is inclusive of the event proceedings, materials, refreshment and lunch.
- Upon receipt of the complete registration form, invoice will be issued. Trueventus request that all payments be made within 5 working days of the invoice being issued. Full payment must be received prior to the event. Only delegates that have made full payment will be admitted to event. Clients are responsible for their own banking fees and banking fees will not be absorbed into the booking price.
- Substitution & cancellations policy. Should the registered delegate is unable to attend, a substitute delegate is welcome at no extra charge. Written notifications of all substitutions is required 5 working days prior to the event. Trueventus contracts carry 100% full liability upon receipt of registration. Non payment does not constitute cancellation. A 100% of cancellation fee will be charged under the terms outlined below. Due to limited event seats, Trueventus agrees to book and confirm the seat for the client upon issuance of invoice. Upon signing of this contract, client agrees that in case of dispute or cancellation of this contract Trueventus will not be for total contract value. If a client does not attend the event without written notification at least 5 working days prior to the event date, he/she will be deemed as no show. A no show at the event still constitutes that the client will have to pay the invoice amount that was issued to them. Trueventus does not provide refunds for cancellations. By signing this contract the client also agrees that if they cancel that Trueventus reserves the right to pursue monies owned via the use of local debt collection agency were the client is situated. Furthermore the client will be held liable for any costs incurred in collection of outstanding monies. When any cancellations are notified in writing to Trueventus 5 working days prior to the event, a credit voucher will be issued for use in future Trueventus events.
- Trueventus will at all times seek to ensure that all efforts are made to adhere to meet the advertised package, however we reserve the right to postpone, cancel or move a venue without penalty or refunds. Trueventus is not liable for any losses or damages as a result of substitution, alteration, postponement or cancellation of speakers and / or topics and / or venue and / or the event dates. If force majeure were to occur Trueventus accepts no responsibility or liability for any loss or damage caused by events beyond their control, including, but not restricted to strikes, war, civil unrest, flight delays, fire, flood or any adverse weather conditions. Trueventus is not liable in the event that a participant is exposed or is infected by Covid 19. Trueventus under no circumstances is liable for any other costs that might have been incurred in the attendance of the event, including but not limited to flights, accommodation, transfers, meals etc. Trueventus reserves the right to replace / change speakers in the best interest of the conference.
- Upon receiving this signed booking form, you the client hereby consent to Trueventus to keep your details for the use of future marketing activities carried out by Trueventus and third party organisations & partners.
- Copyright and Intellectual Property. Any redistribution or reproduction of part or all of the contents in any form in connection to this event is prohibited without prior written consent by Trueventus.
- Client hereby agrees that he/she exclusively authorizes Trueventus charged the credit card with details listed above for the amount provided herein; this registration form serves as a contract that is valid, binding and enforceable. He/she at any time will have no basis to claim that the payments required under this Contract are unauthorized, improper, disputed or in any way. Upon issuance of invoice Trueventus will be charging the client USD 30 processing fee.
- All Trueventus events are held in a classroom or theater format.
- All Trueventus events are held at either 5 or 4 Star Hotels.
- All payment must be directed to Trueventus in full prior to the event. If you are participating in the HRDC Scheme and are applying grants you must first pay Trueventus and upon you receiving the grant you will be refunded this amount back. Failure to pay prior to the event can result in your company being blocked from joining the conference.



HRDC claimable under SBL KHAS scheme  
HRDC Approved Training Provider Reg No: 889325K  
(Applicable for Malaysia only)

FOR FURTHER DETAILS, CONTACT

CASEY LEE

+60327750000 ext.613 | caseyl@trueventus.com