



"There's a reason I come back to this event year after year. I'm really pleased so many of my colleagues are embracing IQPC's 'Bridges Construction 2013' as presenters. I'm excited to hear about their projects and also sharing the experiences I've picked up along the way."

- Jung H. Lee, Associate Director for Finance and Business Development, AASHTO



"With the diverse range of topics and presenters, this will be an event where modern methods of bridge design, planning, construction and project delivery will be reviewed and discussed with the industries key stakeholders."

- Ken Warbritton, Safe and Sound Bridge Improvement Program, Missouri Department of Transportation

Register by August 28th, 2013 to receive exclusive presentations from 2012!

Construction IQ  
a division of IQPC

proudly presents...

5TH

# Bridges 2013

November 18-19, 2013 New York, NY

Best Practices for Maximizing Funding, Retrofitting and Project Management

## Day One Keynotes:



**Theodore P. Zoli, PE**  
National Bridge Chief Engineer, Vice President  
**HNTB**



**Ken Warbritton**  
Safe and Sound Bridge Improvement Program  
**Missouri Department of Transportation**

## Day Two Keynotes:



**Andrew Fremier**  
Deputy Executive Director  
**Bay Area Toll Authority**



**Rafael Manzanarez**  
Principal Bridge Designer  
**ARUP**

## New Interactive Workshops Developed from Customer Feedback

### WORKSHOP A

**Case Study:** Completing the Safe & Sound Bridge Improvement Program

### WORKSHOP B

**Case Study:** Repairing the Alexander Hamilton Bridge & 130 More Success Stories

See pages 3 & 4 for more details

## Case Study Presentations for 2013

- Growing the Design-Build Methodology of Project Delivery
- Creating a Successful P3 Funding Model for Your Project
- Outlining Best Practices at Minimizing Commuter Disruption during Bridge Redevelopments
- Risk Management: Future-Proofing Infrastructure while Maximizing Safety and Reliability
- Identifying Various Funding Models and Ensuring the Project is delivered on Time and on Budget

## Create a New Vision for Yourself & Your Team by Learning from These Experts:

**Tariq Bashir**, Civil Engineer 3, **NYS DOT Region 11**

**Andrew Fremier**, Deputy Executive Director, **Bay Area Toll Authority**

**Gary Dinmore**, Chief Engineer, **Halmar International**

**David Deluca**, Associate/Lead Project Engineer, **Hardesty & Hanover**

**Chris Gagnon**, PE. Senior Vice President, Long Span Bridge Division, **Ammann-Whitney**

**M.Hadi Behrooj**, Sr. Bridge Engineer, **California Department Of Transportation**

**Bryan A. Kendro**, Director, Office of Policy & Public Private Partnerships, **PA Department of Transportation**

**Harold Fink**, Acting Director of Structures, **NYS DOT Region 11**

**Ken Warbritton**, Safe and Sound Bridge Improvement Program, **Missouri Department of Transportation**

**Paul Van Hagen**, Professional Associate/Project Manager, **HDR**

**Joseph M. Englot**, PE, National Director of Infrastructure Security, Associate Vice President, **HNTB Corporation**

**Rafael Manzanarez**, Principal Bridge Designer, **ARUP**

**Jamey Barbas**, Global Director of Strategic Projects, **Hardesty & Hanover**

**Phil Russell**, Director of P3 Project Delivery, **H.W. Lochner**

**Ronaldo Nicholson**, Deputy Director/Chief Engineer, **District of Columbia Dept. of Transportation**

**Theodore P. Zoli**, PE, National Bridge Chief Engineer, Vice President, **HNTB**

**Jung H. Lee**, Associate Director for Finance and Business Development, **AASHTO**

Media Partners:



# 5TH Bridges 2013

November 18-19, 2013 New York, NY



Dear Colleague,

In times of economic duress, our Nation has always looked towards infrastructure improvement as a way to facilitate a thriving economy. However, with the overwhelming number of bridges that need repair and/or replacement and serious lack of funding for these projects, this a problem that cannot go unaddressed. Funding concerns, compounded with a commitment to public safety and the long standing pressure from communities for commute without disturbance, has left the industry searching for innovative ways to perform familiar tasks.

IQPC's 5th Bridges: Design and Preservation summit will address the entire bridge lifecycle, from funding, to design, material selection, construction, monitoring and repair.

This year we are excited to bring you the latest case studies and innovations. Conference highlights include:

- Long-Term Planning and Investment in Roadways and Bridge Projects
- Improving Life Expectancy and Durability of Existing Infrastructure
- Innovative Design Techniques and Building Sustainable Bridges
- Reducing Construction and Financial Risk with Bridge/Road Information Modeling
- Negotiating PPP Projects and the Management Process to Ensure Value for Money for All Stakeholders
- Answering Market Concerns about Using a PPP Model to Finance Infrastructure Projects

We invite you to join us at IQPC's 5th Bridges: Design and Preservation Summit where you will get the chance to learn about the latest technologies and benchmark against industry leaders in bridge construction.

I look forward to meeting you in November,

Best regards,  
Natasia Langfelder  
Program Director  
IQPC

*Ps. We know you work with a team so register 3 or more colleagues and get a **15% discount***

## Sponsorship and Exhibition Opportunities:

Event sponsorship is an excellent opportunity for your company to showcase its products and services to senior level, targeted decision makers attending the **5th Bridges: Design and Preservation Summit**. IQPC and Finance IQ help companies like yours achieve important sales, marketing and branding objectives by setting aside a limited number of event sponsorships – all of which are tailored to assist your organization in creating a platform to maximize its exposure at the event.

For registration information visit [www.BridgesConference.com](http://www.BridgesConference.com) or call **+1 (800) 882-8684**.

For sponsorship opportunities, please contact **Simon Copcutt** at **+1 (212) 885-2771** or [sponsorship@iqpc.com](mailto:sponsorship@iqpc.com).

## Who will you be networking with?

- Chief Bridge Engineers
- Heads of Infrastructure
- Head of Transportation
- Head of Structures
- Bridge Engineers
- Senior Consultants
- Project Managers
- Construction Managers
- Infrastructure Managers
- Design Managers
- Asset Owners
- Risk Management

## What Past Attendees Have Said:

*"This conference is one of the best ways to learn from one another. I look forward to the interaction with the participants to not only teach, but to also learn."*

— **Amber Blanchard**, Design-Build Program Manager, Office of Construction and Innovative Contracting, **MINNESOTA DOT**

*"I am excited to be a part of this great program of experts. The diversity of speakers guarantees that participants will learn a great deal."*

— **Kimberly Farley**, Director of Environmental Services, **WASHINGTON STATE DOT**

## About the Organizer:



[www.construction-iq.com](http://www.construction-iq.com)

**IQPC Worldwide** – through its dedicated construction division, **Construction IQ** – understands that your time is precious. We focus on the key metrics you do: Quality: each and every element of your conference experience, from the identity of the headline sponsors to the bullet points in the brochure abstracts is hand-picked and reviewed by a dedicated team of construction specialists.

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7:15-9:15

Breakfast Workshop A — Registration 7:00am  
**Completing the Safe & Sound Bridge Improvement Program**

The Safe & Sound Bridge Improvement Program was a \$685 million dollar endeavor. When the Commission launched the program in September of 2008, a goal was established to have 802 bridge projects completed by the end of 2014. Nearly 250 of those bridges were to be rehabilitation projects processed through MoDOT's monthly letting schedule, with 100 under contract by the spring of 2009. The remaining 554 bridges — all complete replacements — were to be accomplished through a single design-build contract. In just slightly more than 3 years, a project that was expected to take more than five years has been completed. And as a result, Missourians in every county of the state are driving across new and improved bridges that will serve their needs for many years to come.

You will learn:

- How the MO DOT created a new model for bridge projects that can be applied across the country
- How the MO DOT reversed the recent trend that showed a growing percentage of deficient bridges and keep up 79% rate of bridges in good repair
- Creating collaborative process across construction and design partners to ensure seamless communication and a smooth workflow

You will benefit:

- Take away key steps to simplify your project management processes in order to manage time and remain within budget
- Metrics to benchmark progress and ensure that you are hitting project goals
- Strategies for limiting commuter disruption — and how that can lead to finishing bridge projects quicker and reducing the need for costly roadwork

**Workshop Leader:**

**Ken Warbritton**, Safe and Sound Bridge Improvement Program, **Missouri Department of Transportation**

8:45

Registration & Coffee

9:15

Chairperson's Opening Remarks and Welcome from the Sponsors

9:20

**Risk Management: Future-Proofing Infrastructure while Maximizing Safety and Reliability**

- Forecasting future bridge requirements and implications such as increased traffic while at the same time guaranteeing commuter safety
- Creating a bridge which is both sustainable and will meet community needs and standards
- Planning for future technological innovations and forecasting how this will impact the existing infrastructure
- Obtaining maximum lifespan in your structure

**Andrew Fremier**, Deputy Executive Director, **Bay Area Toll Authority**

10:05

**The Cutting Edge: Utilizing New Technologies for Bridge Repair**

- This session will explore the hardship of employing new, unproven technologies
- Measuring the risks and preparing to protect stakeholder interests
- Criteria for selecting the appropriate technology for retrofitting and repairs
- Polymer Bridge Repair- exploring how this technique increases safety and limits traffic disruption

**Ken Warbritton**, Safe and Sound Bridge Improvement Program, **Missouri Department of Transportation**

**Harold Fink**, Acting Director of Structures, **NYS DOT Region 11**

**Tariq Bashir**, Civil Engineer 3, **NYS DOT Region 11**

10:50

Morning Networking & Refreshment Break

CASE STUDY

KEYNOTE

PANEL DISCUSSION

11:35

**Growing the Design-Build Methodology of Project Delivery**

- Design-build has been rising in popularity, however there are many States that haven't made the leap
- This session will examine the 'must haves' of implementing design-build
- Executing the design effectively, according to codes and consistent with industry standard specifications
- Utilizing new procedures within the procurement process to reduce risk to the owner and design-build team

**Jamey Barbas**, Global Director of Strategic Projects, **Hardesty & Hanover**

12:20

**Outlining Best Practices at Minimizing Commuter Disruption during Bridge Redevelopments**

- Establishing traffic engineering reports to show how traffic flow will be effected
- Employing the latest software advancements and training staff to properly utilize it
- Maximizing efficiency and minimizing both cost and commuter disruption
- Ensuring all stakeholders are included in the management plan

**Bryan A. Kendro**, Director, Office of Policy & Public Private Partnerships, **PA Department of Transportation**

1:05

Networking Luncheon

2:05

**Achieving Sustainability, Cutting Material Costs and Improving Design**

- Reducing material costs and improving efficiency in design
- Moving towards more cost efficient and sustainable structures
- Emphasizing the latest developments and how to ensure compliance
- Ensuring sustainability in bridge engineering
- Performing major environmental and engineering assessments

**Theodore P. Zoli**, PE, National Bridge Chief Engineer, Vice President, **HNTB**

2:50

**Are Post-Tensioned Bridges Cost Effective in the Long Run?**

- Post-Tensioned bridges have been popular for about half a century ago and are widely accepted as a cost-saving method of construction
- However, as post-tensioned bridges are hitting their lifespan, problems specifically relating to this type of bridge are coming to surface
- Are the reparations needed for these types of bridges more costly than others?
- Is there a cost-effective solution to repairing post-tensioned bridges with bonded pre-stressed concrete?

**Rafael Manzanarez**, Principal Bridge Designer, **ARUP**

3:35

Afternoon Networking Break

4:10

**Creating a Successful P3 Funding Model for Your Project**

- Public-Private Partnerships are arguably the next generation of funding
- Demystifying the P3 process through case study examples of successful application
- Examining why the model is more popular Internationally than in the US
- Achieving internal buy-in for a P3 roll-out

**Phil Russell**, Director of P3 Project Delivery, **H.W. Lochner**

4:50

**Exploring the Impact of the Strengthen and Fortify Existing Bridges (SAFE Bridges) Act**

- The collapse of the I-5 Bridge in Washington State led U.S. Representative Nick J. Rahall (D-WV) and Congressional Transportation leaders to introduce SAFE Bridges
- This Act would provide \$5.5 billion to start to reduce the backlog of the more than 150,000 structural deficient and functionally obsolete bridges
- Understand what the Act would mean in terms of funding for your State and local municipalities

**Ronaldo Nicholson**, Deputy Director/Chief Engineer, **District of Columbia Dept. of Transportation**

5:35

Close of Summit Day One



**7:15-9:15** Breakfast Workshop B — Registration 7:00am  
**Repairing the Alexander Hamilton Bridge & 130 More Success Stories**

CASE STUDY

This unique 2-pronged workshop gives an in-depth look at the Alexander Hamilton Bridge Repair project. Workshop attendees will also discover vital bridge asset management techniques.

You will learn:

- Collection of reliable bridge condition data and prioritizing repairs
- Studying deterioration trends and predicting future conditions
- Relating repair cost with the rate of deterioration for decision making
- Examples of conditions and applied solutions

You will benefit:

- Providing pre-designed temporary structures in contract plans to reduce contractor's risk
- Re-engineering of temporary structures by contractor and the use of foreign steel
- Effective use of integrated jacking and shoring support system
- Erection of steel using rail gantry system

**Workshop Leaders:**

**Gary Dinmore**, Chief Engineer, **Halmar International**

**Tariq Bashir**, Civil Engineer 3, **NYS DOT Region 11**

**8:45** Registration & Coffee

**9:15** Chairperson's Recap of Day 1 & Day 2 Welcome

**9:20** **Coronado Bay Bridge Maintenance and Preservation**

CASE STUDY

- Ensuring you have efficient risk management policies in place
- Predicting and overcoming potential hurdles that may arise
- Implementing risk management programs
- Improving product life in hostile environments

**M.Hadi Behrooj**, Sr. Bridge Engineer, **California Department Of Transportation**

**10:05** **Utilizing Dehumidification to Preserve and Extend Service Life for Cables and Suspension Bridges**

CASE STUDY

- Dehumidification has been done overseas, but has just been put to the test in the States
- Hear the behind the scenes details from the designers for the first project here in the US, Maryland and be the first audience to it's success stories and lessons learned
- In addition, take a sneak peak at the designs for dehumidification for the George Washington Bridge

**Chris Gagnon**, PE, Senior Vice President, Long Span Bridge Division, **Ammann-Whitney**

**10:50** Morning Networking & Refreshment Break

**11:35** **Raising the Roadway of the Bayonne Bridge**

CASE STUDY

- What to expect when working on a design-build project
- Guidelines for finding the right team
- Clear and complete understanding of the scope and responsibilities of each party
- Ensuring a smooth workflow through effective communication

**Paul Van Hagen**, Professional Associate/Project Manager, **HDR**

**12:20** **The Murray Morgan Bridge Rehabilitation**

CASE STUDY

- The Murray Morgan Bridge was built in 1913 and it a historical landmark. Hardesty & Hanover has since performed engineering work in order to help preserve the nearly 100 year old structure as well as keep it safe for both the traveling public and waterway users
- This Design-Build project with PCL Civil Constructors utilizes a combination of Local and Federal Funds. One difference in this project is that due to funding there was a cap on the maximum bid value (\$47M). This required our team to focus on innovative ways to meet the project goals, while being cost effective in design and construction
- The Owner chose to utilize a two-phase process to rehabilitate the structure. The goal of Phase 1 is returning vehicular traffic to the bridge without load restrictions. Phase 2 of the program will address additional rehabilitation needs for the bridge
- Learn how to break structural rehabilitation into multiple sections, for best results

**David Deluca**, Associate/Lead Project Engineer, **Hardesty & Hanover**

**1:05** Networking Luncheon

**2:05** **Identifying Various Funding Models and Ensuring the Project is delivered on Time and on Budget**

- Outlining sustainable and cost-effective funding models
- In-depth looks at the pros and cons of design-bid-build vs. design-build and P3
- Identifying key financial risks in major construction projects
- Understanding which model is best suited for your project

**Joung H. Lee**, Associate Director for Finance and Business Development, **AASHTO**

**2:50** **Risk Management: Prioritizing Critical Infrastructure**

- This session covers the the latest research and practical methodologies on prioritizing all bridge infrastructure within each state or agency
- Determining how to best invest limited resources in bridge repair, rehabilitation, retrofitting, and replacement on a multi-hazard risk basis based upon risk based methodologies successfully implemented for one state DOT and for a major transportation agency.
- Performance based specifications and strategies for the security design (hardening) of new bridges

**Joseph M. Englot**, PE, National Director of Infrastructure Security, Associate Vice President, **HNTB Corporation**

**3:35** Afternoon Networking Break

**4:10** **Best Practices in Applied Bridge Design and Rehabilitation**

PANEL DISCUSSION

- This session will investigate how bridge design and refurbishing works across borders
- Why is P3 a more accepted method of funding overseas?
- What is the inspection protocol overseas?
- Case studies of timely and well-budgeted product delivery

**Panelists: Day Two Speakers**

**5:10** Chairperson's Closing Remarks & End of Summit

“This summit will allow us to discuss the hurdles we face and find ways of overcoming them. I anticipate that this event will be well received by the community and I look forward to meeting old friends and making new ones.”

– Tariq Bashir, Civil Engineer 3, NYS DOT Region 11

5TH

# Bridges 2013

November 18-19, 2013 New York, NY

## 5 EASY WAYS TO REGISTER NOW!

- 1 **Web** [www.BridgesConference.com](http://www.BridgesConference.com)
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- 3 **Phone** 1-800-882-8684
- 4 **Fax** 646-378-6025, 24 hours a day
- 5 **Mail** IQPC, 535 5th Avenue, 8th Floor  
New York, NY 10017

# YES

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- All Access    
  Workshop A    
  Workshop B    
  Conference Only

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Organization \_\_\_\_\_ Approving Manager \_\_\_\_\_

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I cannot attend, but please keep me informed of all future events.

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Conference Only	\$899 (Save \$400)	\$1,099 (Save \$200)	\$1,299	
Workshops	\$549 each			
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Conference Only	\$1,499 (Save \$400)	\$1,699 (Save \$200)	\$1,899	
Workshops	\$549 each			

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Reference: Please include the name of the attendee(s) and the event number: 18459.005

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**Special Dietary Needs:** If you have a dietary restriction, please contact Customer Service at 1-800-882-8684 to discuss your specific needs.

### VENUE & ACCOMMODATION:

This event will be held in New York, NY. As soon as the event venue is confirmed, we will post the information online. If you would like to be notified automatically, please email [info@iqpc.com](mailto:info@iqpc.com) with the following in the subject line: "5th Bridges Conference 2013"

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