The Future Is Now – Implementing Construction Innovation in the Changing World

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Schedule-at-a-Glance

Thursday, March 1, 2018
- 7:30 a.m. – 6:00 p.m. Registration Hours
- 7:30 a.m. – 1:00 p.m. Exhibitor Move-in
- 8:30 – 11:30 a.m. Committee Meetings:
  - Digital Project Delivery
  - Temporary Structures Committee, Rebar Cage Sub-committee
  - Standard for Recording and Exchanging Utility Infrastructure Data
- 1:00 – 2:00 p.m. Technical Session 1: Track A, B & C
- 2:00 – 2:15 p.m. Session Break
- 2:15 – 3:15 p.m. Technical Session 2: Track A, B & C
- 3:15 – 3:45 p.m. Networking Break in the Exhibit Hall
- 3:45 – 4:45 p.m. Technical Session 3: Track A, B & C
- 5:00 – 6:30 p.m. Welcome Reception in Exhibit Hall

Friday, March 2, 2018
- 7:00 a.m. – 5:00 p.m. Registration Hours
- 7:30 – 9:15 a.m. Opening Plenary Session Breakfast
- 9:30 – 10:30 a.m. Technical Session 4: Track A, B & C
- 10:30 – 11:00 a.m. Networking Break in Exhibit Hall
- 11:00 a.m. – 12:00 p.m. Technical Session 5: Track A, B & C
- 12:00 – 1:00 p.m. Exhibit Hall Lunch
- 1:00 – 2:00 p.m. Technical Session 6: Track A, B & C
- 2:00 – 3:00 p.m. Technical Session 7: Track A, B & C
- 3:15 – 3:45 p.m. Networking Break in Exhibit Hall
- 3:45 – 4:45 p.m. Technical Session 8: Track A, B & C
- 5:00 – 6:30 p.m. Reception at JFK Memorial

Saturday, March 3, 2018
- 7:30 a.m. – 12:00 p.m. Registration Hours
- 7:30 – 8:00 a.m. Continental Breakfast in Exhibit Hall
- 8:00 – 9:00 a.m. Plenary Session
- 9:00 – 9:20 a.m. Networking Break in Exhibit Hall
- 9:20 – 10:20 a.m. Technical Session 10: Track A, B & C
- 10:20 – 10:40 a.m. Networking Break in Exhibit Hall
- 10:40 – 11:40 a.m. Technical Session 11: Track A, B & C
- 11:40 – 11:50 a.m. Session Break
- 11:50 a.m. – 1:30 p.m. Closing Plenary Luncheon
- 12:00 – 5:00 p.m. Exhibitor Move-out
- 1:45 – 5:15 p.m. Technical Tour: Joint Booster Pump Station No. 3 (JB3) Project*
- 1:45 – 5:15 p.m. LADR Board Meeting
- 1:45 – 5:15 p.m. Committee Meetings:
  - Claims Avoidance and Resolution
  - Management Practices In Construction
  - Specifications

* Additional Ticket Purchase Required

Committee & Board Meeting Schedule

Thursday, March 1
- 8:30 – 11:30 a.m. Digital Project Delivery | Citizens C
- 8:30 – 11:30 a.m. Temporary Structures Committee, Rebar Cage Sub-committee | Metropolitan
- 8:30 – 11:30 a.m. Standard for Recording and Exchanging Utility Infrastructure Data | Citizens A

Saturday, March 3
- 1:45 – 5:15 p.m. LADR Board Meeting | Citizens A
- 1:45 – 5:15 p.m. Claims Avoidance & Resolution | Texas C
- 1:45 – 5:15 p.m. Management Practices In Construction (MPIC) | Citizens C
- 1:45 – 5:15 p.m. Specifications | Texas D

Joint Booster Pump Station No. 3 (JB3) Project. See Technical Tour information on page 9.
Welcome to Fort Worth

On behalf of the Construction Institute (CI) of the American Society of Civil Engineers, we would like to welcome you to CI Summit 2018. The theme of CI Summit 2018 is “The Future is Now - Implementing Construction Innovation in the Changing World,” and you can see from the program we will be addressing some of the changing trends in the engineering and construction industry. The summit’s technical program includes sessions on changes affecting our daily activities and the industry at large.

We are providing three tracks of technical presentations and roundtable discussions, including a track devoted to showcasing CI’s Journal of Legal Affairs and Dispute Resolution in Engineering and Construction. In addition to a great technical program, you will have opportunities for professional networking, to learn about new industry trends and to exchange ideas in a relaxed environment.

The technical presentations will begin on Thursday afternoon and continue through Friday and Saturday morning exploring a wide range of topics, including:

• harnessing technological innovations to improve efficiencies on our projects;
• the state of our infrastructure as described through ASCE’s national and Texas’s state report cards;
• construction safety practices on heavy civil construction projects;
• risk management and mitigation strategies;
• lessons learned from projects from around the country; and more.

We have lined up Bob Pragada from Jacobs and Brian Barth from TxDOT for our plenary breakfast to share their experiences with a major trend in our industry, consolidation and mergers; giving us two different perspectives on the impact of mergers on infrastructure projects.

Our closing plenary lunch will include the 2018 Construction Management Award presentation and a panel on a major regional project, the Integrated Pipeline (IPL) Project. Later in the day, participants can tour the project to observe the challenges presented by a major infrastructure project in an urban setting.

We would like to thank the many volunteers and staff that helped bring this Summit and its program to life.

Thank you for joining us and we hope you will enjoy the sights of the Fort Worth/Dallas area, while we deliver you an exciting and engaging conference, providing you with information, inspiration and connections that can be immediately applied to enhance the success of your projects.
Conference Agenda

Thursday | March 1

Registration Hours
7:30 a.m. – 6:00 p.m. | East Promenade Foyer

Technical Session 1: Track A, B, and C
1:00 – 2:00 p.m. (1 PDH)

TRACK A – Research Needs for Safe Lifting and Handling of Rebar Cages for Deep Foundations | Continental
Rebar cages for cast in place drilled shafts (CIDH) are typically the longest and heaviest on the jobsite and their behavior is notoriously difficult to predict. As the popularity of these deep foundation elements increases, so do the challenges to safely lift and handle the prefabricated reinforcing steel elements. The fabrication and erection of these cages are generally based on experience and rule of thumb practices of the suppliers, fabricators, and contractors. However, several recent collapses have exposed the shortcomings of these techniques and have demonstrated the need to perform research and establish scientific methods to safely lift and handle CIDH rebar cages. Hear about the past, present and future of safe handling of CIDH rebar cages.

Speakers: Dylan E. Allen, EIT, A.M.ASCE, Siefert Associates, LLC; Vincent A Siefert P.E., M.ASCE, Siefert Associates, LLC; Ahmad Itani, P.E., Ph.D., S.E., FASCE, University of Nevada, Reno

TRACK B – GIS Based Data Analytics and Visualization for Highway Projects | Texas B
Many state departments of transportation (DOTs) have started to utilize spatial data analytics and visualization tools to extract important information from their spatial data and to communicate it with management teams for better and smarter decision making. One example is a unit price exploration tool that has been developed for Montana DOT, which visualizes bid data in a colorful and interactive GIS map that can be used for local construction market analysis and estimating bid item prices for any location in the state. In this session, the use of such GIS based data analytics and visualization tools for highway projects will be discussed with real examples.

Speakers: K. Joseph Shrestha, Ph.D., East Tennessee State University; H. David Jeong, Ph.D., A.MASCE, Iowa State University

TRACK C – Innovative Ways to Avoid Construction Disputes – DRBS and Their Application | Texas A
The Dispute Review Board process (DRB) has not only become an effective method to help resolve disputes but, more importantly, a method to help the parties avoid disputes in the first place. After introducing the DRB process, the panel will discuss DRBs from an owner perspective, a contractor perspective, an owner’s attorney perspective and a contractor’s attorney perspective. The panel will also present real-world case studies to demonstrate the value of the DRB process.

Moderator: Bill Hinton, P.E., M.ASCE, the Dispute Resolution Board Foundation (DRBF)

Session Break
2:00 – 2:15 p.m.

Technical Session 2: Track A, B, and C
2:15 – 3:15 p.m. (1 PDH)

TRACK A – Rebar Cages Case Studies and Practical Applications | Continental
Analysis of Rebar Cages During Tripping and Setting Operations for Drilled Shafts on the Bayonne Bridge Project (30 Min)
Rebar cages of varying lengths were required to be installed in drilled shafts on the Bayonne Bridge Project. The rebar cages to be installed were for 6’ diameter drilled shafts, and consisted of bundled vertical bars consisting of no. 9, no. 11 or no. 14 bars. Methodology used in the analysis and required rigging of these cages for tripping and setting of these cages of varying lengths will be presented.

Speaker: Gary L. Page, P.E., M.ASCE, Kiewit Infrastructure Co.

Case Study of High Ductile Gr. 80 Hot Rolled Thread Bars (HRTB) Used in the Fabrication and Placement of Drilled Shaft Pile Cages (30 Min)
This presentation will discuss pile configuration comparison and Standard Gr. 60 vs new Gr.80 HRTB including fabrication and splicing; and the benefits, such as using less bars and less labor. Speakers will talk about safety aspects, including elimination of internal bracing and rigidity of cage and safer hoisting and placing. They will also cover testing using hollow rebar.


TRACK B – Civil Integrated Management and Big Data Analytics for Transportation Projects | Texas B
Using Big Data Analytics for Transportation Project Delivery (30 Min)
Take advantage of the opportunity to analyze projects through the lens of big data analytics. We’ll seek ways to better organize and analyze digital project delivery data to develop intelligence that can improve decision-support for complex projects and directly add value to a project. We’ll start with a series of presentations, and then invite the audience to interact with a panel of project experts, consisting of representatives from agencies and industry, who have been directly involved in the projects under discussion. This session will be part of an ongoing discussion of cutting edge work in digital project delivery that began with a series of workshops hosted by the TRB subcommittee on information systems at the Transportation Research Board annual meetings.

Speaker: Amlan Mukherjee, Ph.D., A.M.ASCE, Michigan Technological University

Using Civil Integrated Management on a Large Highway/Bridge Project (30 Min)
NYSDOT, with the backing of the FHWA Every Day Counts program, is introducing Civil Integrated Management (CIM) to the Kew Gardens Interchange Project in New York City. This project is a $100 million highway and bridge reconstruction project along a highly congested corridor and main access route to JFK Airport. The goal is to provide a 3D model as part of the bid documents to allow potential bidders to use it for estimating, shop drawings, layouts, and additional tasks of their choosing. In addition, the contractor is required to create a 4D model that can be used to track the progress of the project, assist in the management of the project, and provide an as-built model at the end of the project.

Speaker: Craig Ruyke, P.E., M.ASCE, New York State DOT
Welcome Reception
5:00 – 6:30 p.m. | East & West Promenade
Kick off your conference experience by enjoying hors d’œuvres and meeting new friends while reconnecting with colleagues and acquaintances.

Additional Tickets: $105

Registration Hours
7:00 a.m. – 5:00 p.m. | East & West Promenade Foyer

Opening Plenary Session and Breakfast
7:30 – 9:15 a.m. (1PDH) | Crystal D

Sponsored by JACOBS

Call to Order
Dan Becker, M.ASCE, CCM, PMP, CCP, ENV SP, CI Summit 2018 Chair

ASCE Strategic Initiatives

Kristina Swallow, P.E., ENV SP, F.ASCE, 2018 ASCE President
Leading a team of engineers responsible for delivering public works projects, Swallow has been with the City of Las Vegas since 2012. She is responsible for negotiating design and construction contracts, reviewing progress of the work, coordination with public and private sector stakeholders, and responding to external comments or questions. Prior to her current position, Swallow served as Senator Tom Udall’s lead on transportation policy. She worked on the Federal Aviation Administration reauthorization bill and the development and passage of the MAP-21 surface transportation authorization bill.

Swallow has been active in ASCE since 1995, serving on various Society-level committees such as the Committees on Education, and Diversity. She served as the Society’s appointed Governor on the Utility Infrastructure Management (to control, document, and coordinate ROW occupations and facility installations). The panel will discuss the standard framework and provide some case studies of data usage.


Networking Break in Exhibit Hall
3:15 – 3:45 p.m. | East & West Promenade

Technical Session 3: Track A, B, and C
3:45 – 4:45 p.m. (1 PDH)

TRACK A – Case Study: Lifting Reinforcement Cages in New Zealand | Continental
The Fletcher Construction Company in New Zealand has made some innovative improvements in reinforcement cage safety in design, training and research and development. Learn how to deal with challenging situations, such as the installation of reinforcement cages into deep foundation elements like bored piers or diaphragm wall panels; requirements for regions with seismic activities like New Zealand or the west coast of the United States; as well as accommodating temporary load cases not considered in the design process, like lifting cages from a horizontal into a vertical position.

Speaker: Tim Pervan, Fletcher Construction Company

TRACK B – Educating and Developing Construction Professionals
Join us in a discussion about how universities educate construction professionals and communicate expectations for how they can contribute upon graduation. Civil engineering, construction engineering and construction management programs will be compared and contrasted. Hear from our panelists how early career construction professionals can develop by making a good start and keeping up-to-date with the changing construction industry. Various perspectives will be shared on what should be considered common knowledge and the challenges of defining the same.

Moderator: Charles T. Jahren, MBA, Ph.D., P.E., M.ASCE, Iowa State University

Speakers: Yong Bai, Ph.D., P.E., F.ASCE, Marquette University; Susan Bogus Halter, Ph.D., P.E., M.ASCE, University of New Mexico; Greg Moore, PMP, A.M.ASCE, The Citadel; Timothy Parker, P.E., PMP, M.ASCE, Parker Rigging Company, Inc.; Craig Ruyle, P.E., M.ASCE, New York State DOT

TRACK C – New EJCDC Construction Documents | Texas A
The Engineers Joint Contract Documents Committee (EJCDC) produces a comprehensive suite of contract documents for construction projects. These documents are updated on a five year cycle and the next release is scheduled for the first quarter of 2018. This presentation will provide an overview of EJCDC in general, with a more focused look at the soon to be released Construction Series documents. Changes in the 2018 documents will be showcased with background information on the drivers for these changes.

Speaker: Coy Veach, P.E., F.ASCE, CCM, Freese and Nichols, Inc.
Opening Plenary Session and Breakfast (continued)

How Mergers and Acquisitions Are Impacting Your Project
When a public agency enters into a project contract, is it going to be working with the same company by the end of the job? What value does industry consolidation provide? Join Bob Pragada, the President of Buildings and Infrastructure at Jacobs Engineering Group Inc., and Brian Barth, P.E., Transportation Program Officer, Texas DOT, to get the inside track on large engineering and construction industry mergers and acquisitions, and the impact they are having on infrastructure projects.

**Speaker:** Brian R. Barth, P.E., Transportation Program Officer, Texas Department of Transportation (TxDOT)
Brian Barth is responsible for blending all functions in transportation programming and delivery, including strategic and operational performance measures, governance, business process oversight, resource management and IT functions within the department’s unified structure. Appointed as Fort Worth district engineer in November 2013, Barth served on the Regional Transportation Council of the North Central Texas Council of Governments working to solve Metroplex-area transportation issues.

**Speaker:** Robert V. Pragada, President, Buildings & Infrastructure and Industrial Lines of Business, Jacobs Engineering Group Inc.
Offering full engineering, procurement, construction management, integrated project delivery, and stand-alone construction services, as well as asset maintenance and turnarounds, the businesses Pragada leads partner with clients to design, build, and deliver projects for the buildings and infrastructure, consumer goods and manufacturing, mining and minerals, pharmaceutical and biotechnology, and petroleum and chemicals industries.

Included in Full, Speaker, Moderator, Municipal, Young Professional and Student registration rates.

Additional Tickets: $70

Session Break
9:15 – 9:30 a.m.

Technical Session 4: Track A, B, and C
9:30 – 10:30 a.m. (1 PDH)

**TRACK A – Resolving an Engineering/Construction Dispute Using Litigation and Mediation**
Continental

Although we hear about lessons learned regarding claims, it is often from the perspective of attorneys and claim managers, rather than from engineers who have dealt with claims multiple times. Join this group of engineers to dissect a real-world claim and walk through the litigation process, examining the professional practice issues involved and exploring the resolution from the perspective of an engineer. The panel will also propose a theoretical outcome from a mediation, and demonstrate why a mediation might lead to a different outcome from a litigation.

**Moderator:** Craig Lindquist, P.E., M.ASCE, CCS Group, Inc.

**Speakers:** Zachary Jones, J.D., A.M.ASCE, Stites and Harbison PLLC; Thomas Mitchell, P.E., M.ASCE, Urban Engineers, Inc.; John Knowlton, P.E., M.ASCE, American Consulting Professionals, LLC; Dan Becker, M.ASCE, CCM, PMP, CCP, ENV SP, HDR Engineering Inc.

**TRACK B – BIM and Virtual Reality in Construction**
Texas B

How is BIM being used to effectively manage construction projects? Explore examples of its use on substantial transit and bridge projects in a large urban area. Learn how virtual reality can also be used on construction projects; particularly as an effective tool for proposal creation.

**Speakers:** Lennart Andersson, LiRo Group

**TRACK C – Legal Affairs and Dispute Resolution Paper Presentations**
Texas A

**LADR-349, “Effect of Change Orders on Cost and Schedule Overruns of School Building Renovation Projects” (20 min)**
**Speaker:** Pramen Prasad Shrestha, Ph.D., University of Nevada, Las Vegas

**LADR-352, “Risk Mitigation for the Design and Installation of Underdrain Systems” (20 min)**
**Speaker:** Lance VanDemark, University of Colorado Denver

**LADR-367, “Analysis of the Head Office Overhead Claims – Legal Precedence in India” (20 min)**
**Speaker:** Yogita Manan Bindal

Networking Break in Exhibit Hall
10:30 – 11:00 a.m. | East & West Promenade

Sponsored by Kiewit

Technical Session 5: Track A, B, and C
11:00 a.m. – 12:00 p.m. (1 PDH)

**Track A – Stories from the Top: Lessons in Leadership**
Continental

The Dallas/Fort Worth metroplex is growing by leaps and bounds. How do you manage the growing transportation needs of a major metropolitan area, manage key relationships, find innovative ways to fund and complete projects and lead teams? Learn this and more from a lively panel discussion with three of the region’s top women transportation executives. They will also provide insight into their journeys to top posts in the public and private sectors and reveal the secrets of their success.

**Moderator:** Laura Weis, Michael Baker International

**Speakers:** Elizabeth Mow, P.E., North Texas Tollway Authority; Tracey Friggle Logan, P.E., HNTB; Theresa Poer, P.E., TxDOT Fort Worth District

**TRACK B – The U.S. Craft Labor Shortage, Part II**
Texas B

CI’s Management Practices in Construction Committee will pick up where they left off in last year’s session on the craft labor shortage, with a panel representing Texas contractors. They will discuss the nature of the shortage and the situation on the ground in Texas, and offer strategies they are implementing to address the issue.

**Moderator:** John Schaufelberger, Ph.D., P.E., M.ASCE, University of Washington

**Speakers:** Daniel Harris, Osburn Contractors, Inc.; Sean Ray, Sundt Construction, Inc.
TRACK C – Legal Affairs and Dispute Resolution Paper Presentations | Texas A
LADR-353, “Emerging Patterns in Construction Defect Litigation: A Survey of Construction Cases” (20 min)
Speaker: Elizabeth Brogan, University of Colorado Denver
LADR-355, “Multi-layered Framework for Testing the Justifiability of Time-at-Large Callings” (20 min)
Speaker: Mohamed-Asem Uthman Abdul-Malak, Ph.D., American University of Beirut
LADR-350, “The Standard of Care for the Practicing Structural Engineer” (20 min)
Speaker: Justin Ithmann

Buffet Lunch in the Exhibit Hall
12:00 – 1:00 p.m. | East & West Promenade

Sponsored by HDR

Technical Session 6: Track A, B, and C
1:00 – 2:00 p.m. (1 PDH)

TRACK A – Lessons Learned in the Design, Construction, and Operation of Pump Stations | Continental
The owner, design engineer, contractor and construction manager on a $70 million pump station project will discuss the challenges they faced and overcame in building the largest (1,000,000 gpm) stormwater pump station in the City of Dallas, for the Trinity Watershed Management division.

Moderator: Jack Furlong, P.E., D.WRE, M.ASCE, Jacobs Engineering Group
Speakers: Lonnie Geiger, P.E., M.ASCE, Trinity Watershed Management, City of Dallas; Chris Hill, Trinity Watershed Management, City of Dallas; Dennis Berger, BAR Constructors; Michael Arrambide, BAR Constructors; Lance Ferland, P.E., HDR Engineering, Inc.

TRACK B – Expectations about the Duties and Responsibilities of Construction Managers | Texas B
What are the responsibilities of a construction manager? Is there consensus among all parties involved in construction projects? CI’s Committee on Management Practices in Construction investigated the expectations of the parties involved in the construction process, including designers, owners, general contractors, subcontractors, construction managers, and educators. We will explore the findings, including a discussion of areas of consensus and reasons for disagreement, as well as offer recommendations to lead to greater consensus. Has the situation changed? We will compare the results to what we found in an identical study 10 years ago.

Moderator: Gabriel Cajigas, M.ASCE, Forney Construction
Speakers: David Arditi, Ph.D., M.ASCE, Illinois Institute of Technology; Syed M. Alavipour

TRACK A – Preparing Enforceable Specifications | Continental
Learn how to distinguish between the various specification types and use effective and specific specification language and structure, and receive practical tips on best practices to reduce litigation and excessive cost.

Speakers: Theresa Jablonski, PE, M.ASCE, Nova Consulting; Raj Singh, M.ASCE, Ramboll Environ; Rusty Sprouse, P.E., M.ASCE, Jefferson Lab; Ross Stannifer, P.E., M.ASCE, Alan Plummer Associates, Inc.

TRACK B – Heavy Transportation Requirements for EPC Contracts vs. Current Infrastructure Conditions | Texas B
The outlook for Engineering, Procurement, and Construction (EPC) contracts over the next 20 years is promising, especially in the power generation and oil and gas sectors. These projects typically include the manufacture, transport, and installation of large components such as turbines, generators, and vessels whose weights and dimensions prevent conventional means of transport. These components must be transported by specialized equipment over roads and rails to the site. However, EPC contractors are finding it more difficult to have these components shipped to sites, due to the inadequate condition of the current infrastructure in the United States. This panel discussion will examine the requirements needed for transport of these heavy components and compare these requirements to the current road and rail infrastructure in the United States.


TRACK C – Legal Affairs and Dispute Resolution Paper Presentations | Texas C
LADR-358, “Claims and Project Performance Between Traditional and Alternate Project Delivery Methods - A Foundational Research Study” (20 min)
Speaker: Mohammed Mehany

LADR-359, “Progression Analysis of the EJCDC’s Underlying Claim and Dispute Resolution Mechanism” (20 min)
Speaker: Mohammad Barakat, American University of Beirut

Networking Break in Exhibit Hall
3:15 – 3:45 p.m. | East & West Promenade

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The Future Is Now – Implementing Construction Innovation in the Changing World

Friday | March 2 (continued)

Technical Session 8: Track A, B, and C
3:45 – 4:45 p.m. (1 PDH)

TRACK A – Changing Times: Streamlining Project Delivery | Continental
Join us in a discussion on innovations in how we deliver projects, how we work together and how we use available resources, all of which are making project management more efficient. The panel will provide a broad overview of project delivery – including various ways to deliver projects and effective practices to support these alternative delivery methods, such as partnering, risk management and value analysis. Utilizing these practices has enhanced delivery in the areas of job performance, safety and profit. The panel will give the owner, consultant and contractor views on benefits of these processes in relation to the changing times.

Moderator: Jennifer Shane, Ph.D., M.ASCE, Iowa State University

Speakers: Debra Brisk, P.E., Aff.M.ASCE, DRB Consulting, LLC; Renee Hoekstra, CVS, RHA, LLC; John Carlson, DBIA, Sundt Construction, Inc.

TRACK B – Recent Advances in Asphalt Pavement Design, Materials, and Construction | Texas B
There has been quite a bit of technology progress in asphalt materials and paving technologies in the past decade. Innovations include the use of warm mix asphalt technologies, rubber asphalt and bio-mass derived asphalt, as well as the application of mechanistic-empirical design. The asphalt pavement industry has made extensive efforts to develop and promote new pavement materials and structures for constructing and maintaining sustainable pavement. Join us to explore advances in asphalt materials and paving technologies, which may serve the industry, researchers, government agencies and other stakeholders.

Speakers: Baoshan Huang, Ph.D., P.E., M.ASCE, University of Tennessee; Samer Dessouky, Ph.D., P.E., F.ASCE, University of Texas at San Antonio; Zhanping You, Ph.D., P.E., M.ASCE, Michigan Technological University; Kang-Won Wayne Lee, Ph.D., P.E., F.ASCE, University of Rhode Island; Xue Luo, A.M.ASCE, Texas A&M University

TRACK C – Legal Affairs and Dispute Resolution Paper Presentations | Texas A
LADR-360, “Quantifying Lost Labor Productivity in Domestic and International Claims” (20 min)
Speaker: Tong Zhao, P.E., M.ASCE, Delta Consulting Group

LADR-354, “Effects of Change Orders on Cost Growth, Schedule Growth, and Construction Intensity of Large Highway Projects” (20 min)
Speaker: Pramen Prasad Shrestha, Ph.D., University of Nevada, Las Vegas

Reception at JFK Memorial
5:00 – 6:30 p.m. | JFK Pavilion
Join us for cocktails and appetizers, while mingling with colleagues.
Included in Full, Speaker, Moderator, Municipal, Young Professional and Student registration rates.

Additional Tickets: $115

Saturday | March 3

Registration Hours
7:30 a.m. – 12:00 p.m. | East Promenade

Continental Breakfast
7:30 – 8:00 a.m. | Crystal D
Sponsored by

Plenary Session – Exploring the State of Our Infrastructure
8:00 – 9:00 a.m. (1 PDH) | Crystal D
Hear from a panel of ASCE Infrastructure Report Card experts how the 2017 national and Texas report cards have been received, and join in the discussion about the proposed initiatives of the Trump Administration and their potential impact on the state of our nation’s infrastructure.

Networking Break in Exhibit Hall
9:00 – 9:20 a.m. | East & West Promenade

Technical Session 10: Track A, B, and C
9:20 – 10:15 a.m. (1 PDH)

TRACK A – You Be the Judge | Continental
When a construction claim cannot be resolved between the involved parties, they are often compelled to seek a resolution using an arbitrator, a judge, a jury, or a board. These forums take the dispute out of the parties’ hands and place it in the hands of the adjudicator. Join us to experience the unique opportunity for you, the audience, to act as the adjudicator and determine the outcome of a dispute between a contractor and a public agency owner.

Moderator: Thomas Mitchell, P.E., M.ASCE, Urban Engineers

Speakers: Zachary Jones, J.D., A.M.ASCE, Sites and Harbison PLLC; Philips Vallakalil, CCM, Esq., M.ASCE, S.J. Louis; John Knowlton, P.E., M.ASCE, American Consulting Professionals, LLC; Michael Radbill, P.E., F.ASCE, Hill International

TRACK B – Temporary Structures for the Entertainment Industry | Texas B
The entertainment industry, which includes, sports, music festivals and concerts, and TV and movie production, is temporary in nature. Typically, a crew is only on site from one to three days and must start from scratch and build a complete set, camera platform, stage or whatever is needed for the production. In addition, the crew...
“strike” or disassemble everything and cart it away within a few hours. The safety requirements are a mix of mostly construction and general industry standards, when in stadiums or theaters. The sports industry (ESPN, FOX, NBC, CBS, Turner) in particular, does a great job of implementing an industry-wide safety program. Hear about the challenges of working on a short schedule to address a wide variety of safety issues to ensure safe work practices are followed while preparing to broadcast a show with a limited amount of time.

**Speaker:** Anthony Brown, Aff.M.ASCE, ADBrown Company

**TRACK C – Legal Affairs and Dispute Resolution Paper Presentations | Texas A**

LADR-347, “Analysis of Transportation Agencies Claim History: Partnered Versus Non-Partnered” (20 min)

**Speaker:** Carla Lopez del Puerto, Ph.D., University of Puerto Rico – Mayaguez

LADR-348, “Development of a Partnering Maturity Assessment tool for Transportation Agencies” (20 min)

**Speaker:** Carla Lopez del Puerto, Ph.D., University of Puerto Rico – Mayaguez

**Networking Break in Exhibit Hall**
10:20 – 10:40 a.m. | East & West Promenade

**Technical Session 11: Track A, B, and C**
10:40 – 11:40 a.m. (1 PDH)

**TRACK A – Solving Serious Ethical Dilemmas | Continental**

Engineers face serious ethical dilemmas and it can be a struggle to determine the best path forward. Fulfill your licensing requirement and explore some interesting case studies, as well as some background philosophical concepts and the ASCE Code of Ethics.

**Speakers:** Steve Starrett, Ph.D., P.E., D.WRE, F.ASCE, F.EWRI, Kansas State University; Carlos Bertha, Ph.D., US Air Force Academy

**TRACK B – Owners Panel on Alternative Delivery | Texas B**

Explore the pros and cons of various innovative delivery methods with a panel of owners from Texas and other parts of the country, who will inspire you with new ideas on how to make all stages of your construction process more smooth and efficient.

**Moderator:** Dan Becker, CCM, PMP, CCP, ENV SP, M.ASCE, HDR Engineering, Inc.

**Speakers:** Amy Middleton, P.E., CFM, LEED AP, PMP, San Antonio River Authority; Ed Weaver, IPL Program Deputy Director, Tarrant Regional Water District

**TRACK C – Legal Affairs and Dispute Resolution Paper Presentations | Texas A**

LADR-001, “Propagation of Collaboration Governance Framework for Building Information Modelling” (20 min)

**Speaker:** Adam Alwash

LADR-002, “Bare Facts and Benefits of Resource-Loaded CPM Schedules” (20 min)

**Speaker:** Jeff Ottesen, P.E., University of Washington

**Session Break**
11:40 – 11:50 a.m.

**Closing Plenary Luncheon**
11:50 a.m. – 1:30 p.m. (1 PDH) | Crystal D

2018 Construction Management Award
Presentation to David L. Richter, M.ASCE, F.CMAA, F.CIOB, Chairman & CEO, Richter Capital LLC.

**Texas’s Integrated Pipeline (IPL) Project Panel Discussion**

Our closing luncheon panel will showcase the Integrated Pipeline (IPL) Project, a partnership between Tarrant Regional Water District (TRWD) and the City of Dallas Water Utilities (DWU) to finance, plan, design, construct and operate an integrated water delivery transmission system connecting Lake Palestine, Cedar Creek Reservoir, and Richland Chambers Reservoir to Lake Benbrook by integrating TRWD’s existing pipelines and creating flexibility in delivery as well as quick response to fluctuating customer water demands.

The project consists of nearly 150 miles of pipeline, three lake pump stations and three booster pump stations delivering a required capacity of 347 million gallons per day (MGD) of raw water to North Central Texas. TRWD and DWU currently serve about 4.4 million customers and the IPL Project will allow these agencies to continue supporting regional community and economic growth.

**Moderator:** Coy Veach, P.E., F.ASCE, CCM, Freese & Nichols, Inc.

**Speakers:** Ed Weaver, IPL Program Deputy Director, Tarrant Regional Water District; Ted Gay, P.E., Construction Manager, Freese and Nichols, Inc.; Shelly Hattan, P.E., CCM, Resident Engineer, Tarrant Regional Water District

**Included in Full, Speaker, Moderator, Municipal, Young Professional and Student registration rates.**

**Additional Tickets:** $80

**Technical Tour: Joint Booster Pump Station No. 3 (JB3) Project**
1:45 – 5:15 p.m.

This site consists of six different construction contracts equaling a total cost of approximately $70 million.

The components include construction of two 40-million-gallon soil cement-lined earthen berm suction reservoirs, a 69kV high voltage substation, a 29,290 SF pump station, and three different owner furnished equipment packages for large diameter gate valves, large diameter butterfly valves, and pumps, motors, and drives.

Meet in the lobby of the hotel at 1:30 p.m. The bus will depart promptly at 1:45 p.m. Long pants and closed toed shoes are required. Additional safety equipment will be provided onsite.

**Additional Fee:** $90

Visit www.cisummit.org
General Information

**ADA Compliance**
Hilton Fort Worth is barrier-free in compliance with the Americans with Disabilities Act (ADA). ASCE will make every reasonable effort to accommodate your needs. If you require special assistance, please contact us at registrations@asce.org no later than 20 business days prior to the event. ASCE cannot ensure the availability of appropriate accommodations without prior notification.

**Attendee Packets**
Registrants will receive their name badges and tickets at the registration desk during registration hours. To expedite the check-in process, it is recommended you bring your email confirmation with you – especially if you registered after February 4, 2018.

**Conference Attire**
The dress code for the conference is business casual (slacks, casual dresses). Meeting room temperatures will vary, so wear layered clothing to ensure your personal comfort. We also recommend attendees wear comfortable shoes.

**Meeting Room Overcrowding**
ASCE will make every effort to schedule popular events in rooms large enough to accommodate anticipated attendance. Since many events are extremely popular, it is wise to select alternative events as you plan your conference schedule. ASCE and the hotel personnel are REQUIRED to follow local fire regulations and may ask participants in rooms filled to capacity to choose another event.

**Medical Emergencies**
ASCE hopes your visit to Fort Worth and the CI Summit will be free of medical incident. However, if you become ill at the Hilton Fort Worth, please contact the front desk and tell them you have a medical emergency that requires immediate attention.

**No Smoking Policy**
ASCE supports a “No Smoking” policy. Smoking is prohibited in the Hilton Fort Worth and all venues hosting ASCE events.

**Professional Development Hours (PDHs)**
You may earn PDHs, which are nationally recognized units of record, by attending conference sessions. ASCE follows NCEES guidelines on continuing professional competency. Since continuing education requirements for P.E. license renewal vary from state to state, ASCE strongly recommends that individuals regularly check with their state registration boards on their specific continuing education requirements that affect P.E. licensure and the ability to renew licensure. For details on your state’s requirements, please go to www.ncees.org.

**Badge Policy and Ribbons**
Your conference registration name badge is your admission to the educational sessions. Please wear your badge at all times. Tickets are required for the pre- and post-conference events, meals, and special events. Please be sure to bring your tickets with you to each event as you will not be admitted without a ticket. Ribbons will be available at the registration desk. ASCE recommends you remove your badge when leaving the hotel.

**Recording Policy**
Photographic, video or audio recording of any education session is strictly prohibited without prior written permission from both ASCE and the session presenter(s).

**Release/Waiver**
**Photographic Release:** By submitting the registration form for this conference, I hereby release any photographs or recordings that may be incidentally taken of me by ASCE during these events to be used for any purpose.

**Liability Waiver:** I agree and acknowledge that I am participating in ASCE events and activities at my own free and intentional act; and I am fully aware that possible physical injury might occur to me as a result of my participation. I give this acknowledgement freely and knowingly that I am, as a result, able to participate in ASCE events, and I do hereby assume responsibility for my own well-being. I also agree not to allow any other individual to participate in my place.

**Program and Session Cancellation**
ASCE reserves the right to cancel programs and/or sessions because of low registration. In the unlikely event of a cancellation, all registrants will be notified and will receive a full refund, if applicable. Programs and sessions are subject to change, and ASCE reserves the right to substitute a program, session, and/or speaker of equal caliber to fulfill educational requirements.
Hotel Floor Plan

Exhibitors

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<tr>
<th>Company / Organization</th>
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<tr>
<td>Advanced Drainage Systems</td>
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<td>ASCE Texas Section</td>
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<td>WTS Greater Dallas/Fort Worth Chapter</td>
<td><a href="http://www.wtsinternational.org/greaterdallas">www.wtsinternational.org/greaterdallas</a></td>
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Exhibit Hall Hours
Thursday, March 1
3:15 – 6:30 p.m.
Friday, March 2
10:30 a.m. – 3:45 p.m.
Saturday, March 3
7:30 a.m. – 12:00 p.m.

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