Solving Construction Industry Challenges

CONSTRUCTION INSTITUTE SUMMIT 2019
Atlanta, Georgia | March 7-9

Crowne Plaza Atlanta – Midtown Hotel

#CISummit2019 | www.cisummit.org

PROFESSIONAL DEVELOPMENT HOURS

EARN UP TO 17
SCHEDULE-AT-A-GLANCE

(Subject to Change)

**Wednesday, March 6, 2019**
2:00 – 5:00 p.m. Pre-Conference Tour*

**Thursday, March 7, 2019**
7:30 a.m. – 6:00 p.m. Registration Hours
7:30 a.m. – 1:00 p.m. Exhibitor Move-in
8:00 – 11:45 a.m. Committee Meetings
1:00 – 2:00 p.m. Technical Session 1: Track A, B, C & D
2:00 – 2:30 p.m. Networking Break
2:30 – 3:30 p.m. Technical Session 2: Track A, B, C & D
3:30 – 4:00 p.m. Networking Break
4:00 – 5:30 p.m. YP Forum
5:30 – 7:00 p.m. Welcome Reception in Exhibit Hall

**Friday, March 8, 2019**
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 & D
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 & D
12:00 – 1:00 p.m. Exhibit Hall Lunch
1:00 – 2:00 p.m. Technical Session 6: Track A, B, C & D
2:00 – 2:30 p.m. Networking Break
2:30 – 3:30 p.m. Technical Session 7: Track A, B, C & D
3:30 – 4:00 p.m. Networking Break in Exhibit Hall
4:00 – 5:00 p.m. Technical Session 8: Track A, B, C & D Reception

**Saturday, March 9, 2019**
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. Technical Session 9: Track A, B, C & D
9:00 – 9:30 a.m. Networking Break in Exhibit Hall
9:30 – 10:30 a.m. Technical Session 10: Track A, B, C & D
10:30 – 11:00 a.m. Networking Break in Exhibit Hall
11:00 a.m. – 12:00 p.m. Technical Session 11: Track A, B, C & D
11:15 a.m. – 4:00 p.m. Exhibitor Move-out
12:00 – 1:30 p.m. Closing Plenary Luncheon
1:45 – 5:15 p.m. Committee Meetings
2:00 – 5:30 p.m. Technical Tour*

* Additional Ticket Purchase Required
Welcome to Atlanta

On behalf of the Construction Institute (CI) of the American Society of Civil Engineers, we would like to welcome you to CI Summit 2019.

The theme of this year’s CI Summit 2019 is Solving Construction Industry Challenges, and as you can see from the program, we will be addressing some of the challenging issues in the engineering and construction industry. This year’s technical program includes sessions on the challenges we are facing including project delivery, dealing with natural disasters as well as new technologies. Expanding on the success from previous year’s Summits, we are continuing with the format of four tracks, including a track devoted to showcasing CI’s Journal of Legal Affairs and Dispute Resolution in Engineering and Construction.

We kick off the Summit with a tour of the new Mercedes Benz Stadium, home of the Atlanta Falcons and the 2019 Super Bowl. This is the first professional sports stadium to achieve LEED Platinum in the U.S. Experience the signature features of Mercedes-Benz Stadium including stops at locker rooms, the field, Window to the City, Skybridges and 100 Yard Club.

The technical and industry presentations will begin on Thursday afternoon and continue through Saturday morning, exploring a wide range of topics. CI’s Technical committees will meet on Thursday morning and Saturday afternoon, if you are interested in attending – everyone is welcome. The on-line program will provide dates, times and locations for each meeting. Additionally, our YP Forum is on Thursday afternoon, featuring a panel discussion on construction training and development programs, and how to stay abreast of industry and generational changes.

Keynote and Plenary Breakfast

We are honored to have the Georgia Department of Transportation (GDOT) Commissioner Russell R. McMurry as our Keynote Speaker. He will share with us the Department’s thoughtful approach to transportation solutions for Georgia with its Major Mobility Investment Program (MMIP), an $11 billion program consisting of 11 initial transportation projects.

Closing Lunch

Our Closing Plenary Lunch will include the 2019 Construction Management Award Presentation, and a panel discussion focusing on Atlanta’s water infrastructure. The panel will discuss how Atlanta overcame their raw water concerns and was able to increase access to clean drinking water.

We would like to thank the many people that helped make this year’s Summit a success, including: Marsha Anderson Bomar, Gateway85 and ASCE Technical Region Director; Liza Akins, DLA Piper; Shaukat Syed – Georgia DNR (Department of Natural Resources); Amarjit Singh, University of Hawaii at Manoa, Department of Civil Engineering LADR Track Chair; Robert Michael D’Onofrio, Capital Project Management, Inc., and LADR Track Co-Chair.

Thank you for joining us at CI Summit 2019. We hope you will enjoy the sights of the Atlanta area, while we deliver you an exciting and engaging conference.
Pre-Conference Tour: Mercedes-Benz Stadium
2:00 – 5:00 p.m.
Meet in the lobby of the hotel at 1:45 p.m. The bus will depart promptly at 2:00 p.m.
Tour the first professional sports stadium to achieve LEED Platinum in the United States. Experience the signature features of Mercedes-Benz Stadium including stops at locker rooms, the field, Window to the City, Skybridges, and 100 Yard Club.

Registration Hours
7:30 a.m. – 6:00 p.m. | Georgia Ballroom Pre-Function

Technical Session 1: Track A, B, C and D
1:00 – 2:00 p.m. (1 PDH)
Track A – The ABCs of Value Engineering – Part I
Atlanta Ballroom A
Part I of our two-hour workshop is an introduction to the formal process of value engineering. This workshop is designed for individuals involved in planning, design and construction projects; including planners, architects, engineers, construction managers, contractors, cost estimators and owners. We will present “What” and “Why” (Benefits) of formal Value Engineering, and an introduction into “How” and “When” it is applied. We will begin with a discussion of the three-stage process of pre-study, study and post-study, and start on the first phase in the Job Plan, the Information Phase. If you are interested in learning about what happens next, stick around for Part II and find out what Value Engineering is all about.

Speaker: Renee L. Hoekstra, CVC, Aff. MASCE, RHA, LLC.

Track B – Rural Community Infrastructure Projects: Dream Big
Atlanta Ballroom B
Small communities face unique challenges such as poverty, remoteness, and outmigration, all of which can lead to higher user rates. They often have limited financial, technical, and managerial capacity, with limited in-house staff to plan, develop, and implement infrastructure improvements. Engineers working with small communities need to be aware of their unique needs and goals. This presentation will address the ongoing challenges of the rural infrastructure and how to address their concerns while creating solutions for the future.

Speaker: Marcy Newman, P.E., USDA-RD New York State

Track C – 3D Sue Investigations and As-Built Records For 3D Design and BIM
Atlanta Ballroom C
Session will cover the following essential understandings for acquiring and managing 3D utility infrastructure data for project development and delivery: effective utility records investigation; usage of ASCE 38 verses a conventional “potholing” campaign – common industry-wide misperception; new 3D utility survey methods, including integration of LiDAR, multichannel GPR, and SPAR300 data; and project owner implementation of the new ASCE CI utility as-built standard on construction contracts. Latest technologies and ASCE standard updates will be discussed, along with some myth-busting. Knowledge gained will illuminate on current industry trends for managing utility infrastructure for emerging 3D design and construction methodologies and technologies.


Track D – Cranes, Lift Plans and Key Pitfalls (60 mins)
Atlanta Ballroom D
With the growing demand of engineered lift planning from owners, contractors, and jurisdictions, it is imperative that more engineers learn about cranes, rigging, and other critical items that affect a lift. This presentation will walk through key pit falls when sizing a crane, how to read a load chart, what a typical critical lift plan looks like, and some key resources to learn from.

Speakers: Richard Mikut Jr., P.E., MASCE, The Dothea Group, LLC

Networking Break in Exhibit Hall
2:00 – 2:30 p.m. | Georgia Ballroom Pre-Function

Technical Session 2: Track A, B, C and D
2:30 – 3:30 p.m. (1 PDH)
Track A – The ABCs of Value Engineering – Part II
Atlanta Ballroom A
In Part II, we will dig further into the six-phase job plan, starting with function analysis and play a little game called; The Wheel of Function. This is a fun way to understand what the meaning of function is, and why it helps us to better understand our projects. We will then discuss the following phases and tools that goes along with them including creativity, evaluation, development, presentation, lifecycle cost analysis, and performance-based decision making, and such. A brief discussion will follow about “How” and “Why” to integrate value management into your organization, project, and everything you do.

Speaker: Renee L. Hoekstra, CVC, Aff. MASCE, RHA, LLC.
Track B – Atlanta Botanical Gardens Walkway Collapse Investigation
Atlanta Ballroom B
On December 19, 2008 a large portion of the S-shaped, steel-framed walkway under construction at the Atlanta Botanical Gardens suddenly collapsed during concrete placement operations. The approximately 575 foot-long canopy bridge was designed as a cable-stayed structure. At the time of collapse, temporary shoring tower frames and helical piles supported the walkway framing system. This case study presentation highlights the importance of understanding movement and structural behavior in permanent design, temporary design, and collapse investigation.

Speaker: Dan Cook, P.E., S.E., M.ASCE, Simpson Gumpertz & Heger

Track C – Stop Hitting Underground Utilities, The Middle Market of Private Utility Locating
Atlanta Ballroom C
According to the Common Ground Alliance, (CGA) the total cost of damages in the last 20 years caused by improperly located or not located subsurface utilities has reached $1.7 billion, which resulted in 1,906 injuries and 421 fatalities. The CGA represents a body of industry stakeholders that advocate for the 811/One Call utility funded public property locating service. Outside of the free 811/One Call public property utility location service, there is a vibrant private property utility location market. Contractors that service this marketplace use specialized technologies like ground penetrating radar to image and markout underground utilities. This presentation is a summary of a proven methodology that greatly reduces underground utility strikes associated with private property locating.

Speaker: Matthew Dragon, GPRS

Track D – Development of U.S. Construction Engineering Education
Atlanta Ballroom D
Join us in a discussion about the construction industry that focuses on: construction engineering, management education and career development. Panelists from academia, government agency, and the construction industry will discuss a variety of topics ranging from leadership development to construction curriculum. This discussion will be beneficial to both industry professionals and students, as they will gain deep knowledge about construction education and industry expectations so they can better prepare for their careers.

Moderator: Charles T. Jahren, MBA, Ph.D., P.E., M.ASCE, Iowa State University
Speakers: W. Edward Back, Ph.D., M.ASCE, The University of Alabama; James E. (Jim) Rowings, Jr., P.E., Ph.D., M.ASCE, Kiewit; Craig Ruyle, P.E., M.ASCE, New York State DOT

Networking Break in Exhibit Hall
3:30 – 4:00 p.m. | Georgia Ballroom Pre-Function

YP Forum – From the Classroom to the Office: Everyone’s Role in Leading Our Young Professionals and Students
4:00 – 5:30 p.m. | Georgia Ballroom (1.5 PDHs)
Today’s high demand of engineers in the construction industry is making it challenging for employers to obtain and retain talent. Our industry has changed over the last 15 years with new contract models, technology, and focus on resiliency. Just as the industry changes, the process that we use to train, advance, and motivate our young professionals is changing. Everyone needs to adapt to the industry and generational changes in order to develop talent and stay at the forefront. This interactive session will include a panel with perspectives from students, young professionals, academia, and managers. They will provide 7 tips for you to focus on to ensure that our young professionals are being developed into our future leaders.

Discussion and roles outline:
Mitchell Hallee – Princeton University student graduating in May, CI Student Days participant and accepted offer with Kiewit. Mitchell will provide student perspective.
Halis Seawell, Kiewit – YP Discussion Champion/Speaker. Halis will be speaking to new technology and what YPs feel should be included in company development plan. Stretch and Flex leader.
LeAnne Napoleon, HNTB – Discussion Champion. LeAnne will provide large designer development plan.
Tony Puntin, BETAs Group Inc, University of New Hampshire – Discussion Champion. Tony will be providing academia and small designer development plan.
Travis Mohr, Kiewit – Moderator/Speaker. Travis will provide large contractor technology, work/life balance, and development plan.

Welcome Reception
5:00 – 6:30 p.m. | Georgia Ballroom Pre-Function
Kick off your conference experience by enjoying hors d’oeuvres and meeting new friends while reconnecting with former colleagues.

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

Additional Tickets: $105

Headshot Photo Booth
Stop by and get a professional headshot during Thursday’s Welcome Reception and Friday’s morning’s Networking Break.

Sponsored by HNTB

Friday | March 8

Registration Hours
7:00 a.m. – 5:00 p.m. | Georgia Ballroom Pre-Function

Opening Plenary Session and Breakfast
7:30 – 9:15 a.m. | Georgia Ballroom

Call to Order
Travis Mohr, A.M.ASCE, CI President
Dan Becker, M.ASCE, CCM, PMP, CCP, ENV SP, CI Summit 2019 Chair

Welcome Remarks
Marsha Anderson Bomar, AICP, ENV SP, F.ASCE, ASCE Technical Region Director

Keynote Presentation: The I-85 Response, Major Mobility Investment Program and More – An Insider View of the Georgia DOT
The Georgia Department of Transportation (GDOT) is reaching new heights of service and achievement. Chief among the department’s thoughtful approach to transportation solutions for Georgia is the Major Mobility Investment Program (MMIP), an $11 billion program consisting of 11 initial transportation projects. GDOT is also finding new ways to expedite project construction and completion. When the I-85 bridge in Atlanta collapsed due to fire in March 2017, GDOT sprang into action using a declaration of emergency and financial incentives to ensure the bridge was swiftly rebuilt and reopened to nearly 250,000 daily vehicles in just six weeks. Hear all about these compelling topics from GDOT Commissioner Russell R. McMurry.

Speaker: Russell R. McMurry, P.E., Commissioner, GDOT

Additional Tickets: $70
Technical Session 4: Track A, B, C and D
9:30 – 10:30 a.m. (1 PDH)

Track A – Introduction to Claims Management Guidelines
Atlanta Ballroom A
The goal of successful completion of the project now includes the expectation of project closeout free from disputes and claims. Construction disputes and claims threaten the schedule, cost, and quality of the projects; impact future capital programs; divert critical resources; and erode public confidence. The construction manager (CM) plays an important role and is responsible in avoiding, mitigating, and resolving the disputes and claims between the owner and the contractor(s) during the execution of construction projects. Understanding the most common causes of disputes and claims allows the CM to implement a claims management plan that enables the project team to avoid, mitigate, and resolve disputes.

Speakers: David M. Ponte, P.E., M.ASCE, Arcadis; Eric Schatz, P.E., Arcadis

Track B – American Iron and Steel for Federally Funded Water Infrastructure Projects
Atlanta Ballroom B
There are many misperceptions about American Iron and Steel (AIS) requirements for federally funded projects. These misconceptions may have deterred construction firms from bidding on water infrastructure projects in years past, however due to an increase recently in federal funding, may influence the demands of construction in this area. This session will identify key federal funding programs for water infrastructure improvements that include the AIS requirements, notably, the Clean Water and Drinking Water State Revolve Fund (SRF) Programs and the Water Infrastructure Finance and Innovation Act (WIFIA) Program; describe the AIS requirements and the role construction firms play in its implementation; and strive to address some common misunderstandings about navigating AIS requirements.

Speakers: Dan-Tam Nguyen, USEPA; Kirsten Anderer, P.E., USEPA; Leslie Corcelli, USEPA

Track C – Improving Construction Project Delivery Through Standard Work: Why Standards Matter
Atlanta Ballroom C
One of the key principles of Lean is Standard Work, which includes documenting a standard, making sure the standard is up-to-date and followed. The ASCE Specifications Committee has identified several key issues in project delivery and has recognized that applying standard work principles can help improve quality and productivity in construction projects. Through various resources and case studies, the committee will present why the template is fundamental to specifications.

Speakers: Rusty Sprouse, P.E., M.ASCE, Jefferson Lab; David Siegler, P.E., M.ASCE, Acting Project Engineer

Track D – Legal Affairs and Dispute Resolution Paper Presentations
Atlanta Ballroom D

LADH# MaroonR-450 Application of Natural Language Processing and Text Mining to Identify Patterns in Construction Defect Litigation Cases
Speakers: Baabak Ashuri, Ph.D., M.ASCE, Georgia Tech; Elizabeth Brogan, P.E., S.M.ASCE, University of Colorado, Denver; Yashovardhan Jallan, S.M.ASCE, Georgia Tech

LADR-410 An Approach to Quantify the Delay due to Lost Productivity
Speakers: Carol Mikhail, Orascom Construction

Networking Break in Exhibit Hall
10:30 – 11:00 a.m. | Georgia Ballroom Pre-Function

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

Track A – An Introduction to the ASCE CI Loss of Productivity Standard
Atlanta Ballroom A
In 2016, the ASCE Construction Institute sponsored and began the process of establishing new Standard Guidelines for the Measurement of the Loss of Productivity, to address the best practices for conducting productivity analysis in construction. The intent of the standard would be to resolve disputes and to provide the tools to properly identify, measure, and quantify loss of productivity. This presentation will focus on the elements being covered in the standard, and will highlight the content and the current status of the standard document as presented by contributing members of the committee.

Speakers: John Ciccarelli, P.E., CCP, PSP, M.ASCE, J.S. Held, LLC; David M. Ponte, P.E., M.ASCE, Arcadis

Track B – Predictor Analysis: Predicting the Potential for Serious Injury and Fatality Incidents
Atlanta Ballroom B
Construction industry statistics show that serious injury and fatality (SIF) rates have declined over the past 25 years but are currently stagnant. Data from recent studies suggests that there are precursors to SIFs that can be used to predict which operations have the greatest risk and potential for a safety incident. This presentation will describe the results of a recent study that led to the development of a precursor analysis process. The process involves assessing the presence of potentially detrimental precursors (anomalies) in the workplace and alerting those overseeing field operations of the likelihood of a SIF incident. The presentation will define SIF events and describe the process and when it can be applied. An example of a precursor analysis checklist will be presented.

Speaker: John Gambatese, PhD, P.E. (CA), M.ASCE, Oregon State University

Track C – Use of Bypass Panel Bridges in Place of Staged Construction
Atlanta Ballroom C
With the ever increasing traffic on today’s highways, the repair or replacement of bridges is becoming more of a challenge. Over the past 25 years, staged construction was the normal method used to facilitate this type of work, but with today’s traffic volumes, maintaining flows and travel times for the public are becoming more of a challenge. Over the last 10 years, the use of temporary bypass bridges had become more common to divert traffic around a bridge project to maintain the traffic flow as if the original bridge was still in service. This session will discuss the benefits of using bypass bridges in place of staged construction as well as the types of bypass bridges commonly used within the U.S. market.

Speaker: John Brain, P.E., M.ASCE, Acrow Corporation

Track D – Legal Affairs and Dispute Resolution Paper Presentations
Atlanta Ballroom D

-400 Change Orders on Road Maintenance Contracts: Causes and Preventive Measures
Speaker: Pramen Prasad Shrestha, P.E., M.ASCE, University of Nevada, Las Vegas

LADR-401 Change Orders and the Effects on Cost and Schedule for Small Low-Bid Highway Contracts
Speaker: Pramen Prasad Shrestha, P.E., M.ASCE, University of Nevada, Las Vegas

Networking Break in Exhibit Hall
10:30 – 11:00 a.m. | Georgia Ballroom Pre-Function

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

Track A – An Introduction to the ASCE CI Loss of Productivity Standard
Atlanta Ballroom A
In 2016, the ASCE Construction Institute sponsored and began the process of establishing new Standard Guidelines for the Measurement of the Loss of Productivity, to address the best practices for conducting productivity analysis in construction. The intent of the standard would be to resolve disputes and to provide the tools to properly identify, measure, and quantify loss of productivity. This presentation will focus on the elements being covered in the standard, and will highlight the content and the current status of the standard document as presented by contributing members of the committee.

Speakers: John Ciccarelli, P.E., CCP, PSP, M.ASCE, J.S. Held, LLC; David M. Ponte, P.E., M.ASCE, Arcadis

Track B – Predictor Analysis: Predicting the Potential for Serious Injury and Fatality Incidents
Atlanta Ballroom B
Construction industry statistics show that serious injury and fatality (SIF) rates have declined over the past 25 years but are currently stagnant. Data from recent studies suggests that there are precursors to SIFs that can be used to predict which operations have the greatest risk and potential for a safety incident. This presentation will describe the results of a recent study that led to the development of a precursor analysis process. The process involves assessing the presence of potentially detrimental precursors (anomalies) in the workplace and alerting those overseeing field operations of the likelihood of a SIF incident. The presentation will define SIF events and describe the process and when it can be applied. An example of a precursor analysis checklist will be presented.

Speaker: John Gambatese, PhD, P.E. (CA), M.ASCE, Oregon State University

Track C – Use of Bypass Panel Bridges in Place of Staged Construction
Atlanta Ballroom C
With the ever increasing traffic on today’s highways, the repair or replacement of bridges is becoming more of a challenge. Over the past 25 years, staged construction was the normal method used to facilitate this type of work, but with today’s traffic volumes, maintaining flows and travel times for the public are becoming more of a challenge. Over the last 10 years, the use of temporary bypass bridges had become more common to divert traffic around a bridge project to maintain the traffic flow as if the original bridge was still in service. This session will discuss the benefits of using bypass bridges in place of staged construction as well as the types of bypass bridges commonly used within the U.S. market.

Speaker: John Brain, P.E., M.ASCE, Acrow Corporation

Track D – Legal Affairs and Dispute Resolution Paper Presentations
Atlanta Ballroom D

-400 Change Orders on Road Maintenance Contracts: Causes and Preventive Measures
Speaker: Pramen Prasad Shrestha, P.E., M.ASCE, University of Nevada, Las Vegas

LADR-401 Change Orders and the Effects on Cost and Schedule for Small Low-Bid Highway Contracts
Speaker: Pramen Prasad Shrestha, P.E., M.ASCE, University of Nevada, Las Vegas
Buffet Lunch in the Exhibit Hall
12:00 – 1:00 p.m. | Georgia Ballroom Pre-Function

Sponsored by Oldcastle Infrastructure

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

Track A – Diversity in the Transportation Industry: Attracting and Engaging Talent
Atlanta Ballroom A

Atlanta’s transportation industry is growing by leaps and bounds. How do you manage the growing transportation needs of a major metropolitan area, develop key relationships, and find innovative ways to fund and complete projects, all while leading diverse teams? Learn this and more from a lively panel discussion with four 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: Malika Reed Wilkins, PhD, APR, WTS Atlanta, Atlanta Regional Commission
Speakers: Tamae Partain, Atkins North America; Adelle P. Robinson, MBA, Metropolitan Atlanta Rapid Transit Authority; Sherd White, HNTB; Nancy Juneau, Juneau Construction Company

Track B – Managing Construction Operations at Airports
Atlanta Ballroom B

This session will feature prominent airport executives who will discuss their experiences in managing day-to-day construction operations as well as major expansion projects at airports. The session will specifically highlight the difficulties of managing construction within an on-site/in-use facility with significant amount of various daily operations such as an airport. The session will include suggestions and lessons-learned both from policy and technical perspectives.

Moderator: Mehmet Ozbek, Ph.D., A.M.ASCE, Colorado State University
Speakers: Ginger Evans, Former Commissioner for the Chicago Department of Aviation; Roger Natsuhara, Vice President for Engineering at the Metropolitan Washington Airports Authority

Track C – Virtual Claim Decision: Arbitration
Atlanta Ballroom C

Construction claims are common. The issues range from delays due to various reasons to disputes between parties regarding interpretation of construction requirements. Whatever the reason, sometimes disputes cannot be resolved, and the parties are compelled to resolve the dispute using arbitration. This forum for resolution will take the dispute out of the parties’ hands and place it in the hands of the arbitrator, which is the audience. The audience will act as a panel of arbitrators. The arbitration presentation will provide the opportunity for the audience to act as the arbitrator and determine the outcome of a dispute.

Scenario: Construction differing site condition claim presentation between a contractor (claimant) and state DOT (respondent). The contractor and its counsel will present its affirmative version of its construction claim issue. The state DOT and its counsel will present its defensive perspective of the claim issue and may present a counterclaim.


Track D – Legal Affairs and Dispute Resolution Paper Presentations
Atlanta Ballroom D

LADR-408 Loss of Productivity Analysis Using Project Specific Curves
Speaker: Tong Zhao, P.E., M.ASCE, Delta Consulting Group

LADR-430 Administration Impairments Resulting from Imbalanced Contract Conditions: The Case of Owner’s Payment Defaults
Speaker: Mohamed-Asem Uthman Abdul-Malak, American Univ. of Beirut

LADR-433 Liability Exposure and Indemnity for Architecture/Engineering Professionals Acting as Independent Consultants or Design Subcontractors
Speaker: Maysa Kalach, Bliss; Mohamed-Asem Uthman Abdul-Malak, American University of Beirut

Networking Break in Exhibit Hall
2:00 – 2:30 p.m. | Georgia Ballroom Pre-Function

Technical Session 7: Track A, B, C and D
2:30 – 3:30 p.m. (1 PDH)

Track A – Disaster Duty: Emergency Project Best Practices
Atlanta Ballroom A

Devastation of category 4 winds, 20-foot surge flooding, and 126 miles of highway is what HDR’s team of disaster debris professionals faced after their 9+ hour journey into the Florida Keys the day after Hurricane Irma made landfall. First, they needed to clear and repair roads just enough so EMS could enter. Second, they “cut & toss” so residents could survey damages to their homes and deliveries could be made. Lastly, the process concluded with debris removal. This session discusses lessons learned amid best practices surrounding:

- Unconventional emergency recruiting and hiring
- Logistics for extensive projects in isolated areas
- Personnel management while maintaining safety and quality.

Speakers: Tony Sabbag, HDR; Cliff Lowe, HDR; Ron Garraffa, P.E., HDR; Leonard Salazar, FDOT

Track B – Integrated Form of Agreement (IFOA): How, Why, and the Outcomes of Applying This Delivery Method on a Healthcare Facility
Atlanta Ballroom B

The session illustrates a project that was delivered as an integrated form of agreement (IFOA), the first agreement of its type to be used for a healthcare project in Chicago. The contract agreement was signed by the owner, architect, mechanical and electrical engineer, general contractor, and six subcontractor trade partners who all shared in a risk/reward pool. As a result of this new plan, all project goals and metrics were met and the team profit pool increased to $509,822 (from $291,545), and returned $450,000 in savings to the owner. The entire team saw the benefits of this methodology, saving time and focusing on the project goals. Listen in and see if this methodology could benefit you.

Moderator: Debra R. Brisk, P.E., M.ASCE
Speaker: John Zachara, CCM, LEED AP, Integrated Facilities Solutions, Inc.

Track C – Challenges Posed by Rebar Cages: Part 1, Below Ground
Atlanta Ballroom C

This presentation outlines the construction engineering challenges faced when preparing lift plans for below ground rebar cages, including those required for drilled shafts and slurry walls. Specific challenges highlighted are structural analyses of rebar cages during trip-up and erection, load path evaluation, temporary bracing and strengthening, and designs of custom lifting devices and rigging. Case studies are included to illustrate the means and methods.

Speakers: Vincent Siefert, P.E., Siefert Associates LLC; Andrew Ritter, P.E., Siefert Associates LLC; Dylan Allen, EIT, Siefert Associates LLC
Conference Agenda (continued)

Track D – Legal Affairs and Dispute Resolution Paper Presentations
Atlanta Ballroom D

LADR-424 Comparative Analysis between Distracted Driving Texting Laws and Driver’s Behavior in Construction Work Zones
Speakers: Carla Lopez del Puerto, A.M.ASCE, University of Puerto Rico - Mayaguez; Benjamin Colucci-Rios, Ph.D., PTOE, M.ASCE, University of Puerto Rico - Mayaguez; Ricardo Garcia Rosario, S.M.ASCE, University of Puerto Rico - Mayaguez

LADR -446 Designating Responsible Parties for Drainage Within Five-Feet of the Building
Speakers: Lance VanDemark, P.E., M.ASCE, University of Colorado, Denver; Elizabeth Brogan, P.E., M.ASCE, University of Colorado, Denver

Networking Break in Exhibit Hall
3:30 – 4:00 p.m. | Georgia Ballroom Pre-Function

Technical Session 8: Track A, B, C and D
4:00 – 5:00 p.m. (1 PDH)

Track A - Project Scoping for a More Integrated Approach in Alternative Delivery
Atlanta Ballroom A
Alternative delivery projects, including design/build (DB), construction manager at risk (CMAR), and construction manager/general contractor (CM/GC), have all provided some unique opportunities and challenges for organizations now embracing these methodologies. These new delivery methods require new approaches and changes to existing policies, often entrenched in our organizations. This presentation will share information on how to manage expectations, create alignment around the issues to resolve them, and much more.

Speakers: Renee L. Hoekstra, CVC, Aff. M.ASCE, RHA, LLC; John Carlson, DBIA, Sundt Construction; Kerry Averyt, San Antonio River Authority

Track B – Stiffleg Derricks: What Good Are They?
Atlanta Ballroom B
As the predecessors to the present-day crane, derricks and gin poles were the way to lift and move objects in the days of yore. Seemingly complicated, derricks and gin poles were a compilation of guys, a boom, block and tackle, sometimes a mast and possibly even horses as hoists. Today’s cranes are self-contained machines capable of conducting the same operations with relative ease. However, the derrick still has its place in construction, specifically the stiffleg derrick. The components of a stiffleg derrick will be presented, along with its safe and efficient applications in today’s construction sites.

Speakers: Edward M. Deegan, Jr., P.E., M.ASCE; Jim Worrell, P.E., M.ASCE

Track C – Challenges Posed by Rebar Cages: Part 2, Above Ground
Atlanta Ballroom C
This presentation outlines the construction engineering challenges faced when preparing lift plans for above ground rebar cages, including those required for pier columns and cap beams. Specific challenges highlighted are structural analyses of rebar cages during tripping and erection, load path evaluation, temporary bracing and strengthening, and designs of custom lifting devices and rigging. Case studies are included to illustrate the means and methods.

Speakers: Vincent Siefert, P.E., Siefert Associates LLC; Andrew Ritter, P.E., Siefert Associates LLC; Dylan Allen, EIT, Siefert Associates LLC

Track D – Legal Affairs and Dispute Resolution Paper Presentations
Atlanta Ballroom D

LADR-402 Requirements and Practices of Underground Construction Activities: A Review of Recently Updated Act
Speakers: Ahmed Al-Bayati, P.E., M.ASCE, Western Carolina University; Louis Panzer, North Carolina 811

LADR-415 Litigation Proneness of Dispute Resolution Clauses in Construction Contracts
Speaker: Murali Jagannathan

Reception
5:15 – 6:45 p.m. | Sky East, 25th Floor
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 9

Registration Hours
7:30 a.m. – 12:00 p.m. | Georgia Ballroom Pre-Function

Continental Breakfast
7:30 – 8:00 a.m. | Georgia Ballroom Pre-Function

Technical Session 9: Track A, B, C and D
8:00 – 9:00 a.m. (1 PDH)

Track A – The Evolving Use of Virtual Design and Construction in the Heavy Civil Construction Industry – Strengthening the Connection Between Designers and Builders
Atlanta Ballroom A
Skanska’s presentation will show how virtual design and construction (VDC) has grown from its early use in heavy civil construction as a simple graphical platform into a tool that is utilized by construction companies through all phases of a job’s life cycle, from project understanding to facility management. The session will provide examples of how we use VDC to more efficiently manage the ideation and design development processes for design build projects as well as how Skanska creates innovative means and methods improvements on bid/build jobs.

Speaker: Paul Pedini, Skanska USA

Track B – Managing Project Risk thru Alternative Delivery
Atlanta Ballroom B
Alternative Delivery is a preferred delivery method, which includes Design-build (DB), progressive design-build (PDB), construction management at risk (CMAR) and Public Private Partnerships (P3). Of projects delivered in this country, these account for fifty percent and is growing in popularity in public-sector. Throughout this session we will share trends in the industry and discuss risk management measures, that you might want to consider in selecting the project delivery method to best meet your project’s and organization’s requirements.

Speakers: Dan Becker, M.ASCE, CCM, PMP, CCP, ENV SP; HDR; Chris Matthews, P.E., EXW, ARCADIS
In a typical year, USDA Water Environmental Programs (WEP) provide about $1.5 billion in infrastructure funding to rural communities. However, like all infrastructure, such systems are vulnerable to natural disasters, which have steadily increased since 1980. WEP is developing policies to ensure built-in resilience to flood, high wind, wildfire, earthquake, drought, and cyber attack. These policies protect the taxpayer’s investment while ensuring continued provision of safe drinking water, basic sanitation, and environmental protection in the event of a natural disaster.

**Speaker:** Valdis Krumins, USDA-RD

**Track C – Hurricane Maria in Puerto Rico: Assessment of the Damages, Reconstruction Efforts and Beyond Recovery**

Atlanta Ballroom C

Hurricane Maria made landfall on September 20, 2017, near Yabucoa, Puerto Rico as an intense Category 4 hurricane, the fifth strongest hurricane to ever hit the United States. Hurricane Maria resulted in several fatalities and caused major damage to the island’s infrastructure, including widespread outages. This session will survey all the damages caused by Hurricane Maria, and discuss ongoing reconstruction efforts to design and build infrastructure that can withstand the impact of natural events, such as hurricanes, earthquakes, and tsunamis.

**Moderator:** Javier Irizarry, School of Building Construction, Georgia Institute of Technology

**Speakers:** Carla Lopez del Puerto, Department of Civil Engineering and Surveying, University of Puerto Rico – Mayaguez; Ismael Pagan, Department of Civil Engineering and Surveying, University of Puerto Rico – Mayaguez; Ricardo Lopez, Department of Civil Engineering and Surveying, University of Puerto Rico – Mayaguez; Patricia Chardon-Maldonado, Center for Applied Ocean Science and Engineering, University of Puerto Rico – Mayaguez

**Track D – Legal Affairs and Dispute Resolution Paper Presentations**

Atlanta Ballroom D

**LADR-436 Sequencing and Operational Variations of Standard Claims and Disputes Resolution Mechanisms**

**Speakers:** Mohammad Barakat; Mohamed-Asem Uthman Abdul-Malak, American University of Beirut

**LADR-442 Lessons Learned from Progressive Design-Build Implementation on Airport Projects**

**Speaker:** Pramen Prasad Shrestha, P.E., M.ASCE, University of Nevada, Las Vegas

**Networking Break in Exhibit Hall**

9:00 – 9:30 a.m. | Georgia Ballroom Pre-Function

**Track D – Legal Affairs and Dispute Resolution Paper Presentations**

Atlanta Ballroom D

**LADR-435 Proposed Framework for the Rendering of Construction Contract Documents Interpretations by Engineering Professionals**

**Speakers:** Jamileh M. K. Hamie, KPMG; Mohamed-Asem Uthman Abdul-Malak, American University of Beirut

**LADR-448 Administration of Construction Contract Interim Payments Based on Earned-Value Reduction Techniques**

**Speakers:** Farah Samir Demackkh; Mohamed-Asem Uthman Abdul-Malak, American University of Beirut

**LADR-413R1 The Impacts of Change Orders on Cost and Schedule Performance and the Correlation with Project Size of DB Building Projects**

**Speaker:** Pramen Prasad Shrestha, P.E., M.ASCE, University of Nevada, Las Vegas

**Networking Break in Exhibit Hall**

10:30 – 11:00 a.m. | Georgia Ballroom Pre-Function

**Track C – Succession Myths**

Atlanta Ballroom C

With baby boomers retiring at an astounding rate, the loss of experience, knowledge, and leadership is alarming. The need to be strategic in building your leadership bench is imperative when trying to navigate this rapidly changing workforce. By understanding the common pitfalls and myths associated with succession planning, your company will be better prepared to endure and thrive through the changes. This session will give insight into navigation of leadership preparations for each working generation, complications in succession planning and how to overcome them, simplification of a succession process with FMI’s Peak Succession Model, and how to build an enduring organization with a strong team of successors.

**Speaker:** Michael Mangum, FMI

**Track B – Looking beyond ASCE’s Report Card: Insights into Rural America’s Infrastructure (30 min)**

Atlanta Ballroom B

The ASCE report card rated nationwide drinking water and wastewater infrastructure as D and D+, respectively. However, these grades are overall averages that can obscure conditions specific to rural systems. Providing high quality service in rural communities is challenging due to aging infrastructure, remote location, and often lower incomes and property values. The United States Department of Agriculture (USDA), Rural Development Water and Environmental Programs provide financial assistance for water and wastewater infrastructure projects in rural America, where many systems struggle to meet standards or are nearing the end of their useful life. We will highlight projects from rural Arizona with a focus on unique solutions developed with assistance from USDA Rural Development.

**Speaker:** Mike Luecker, USDA-RD

**Technical Session 10: Track A, B, C and D**

9:30 – 10:30 a.m. (1 PDH)

**Track A – Practical Use of Drones for Construction Management**

Atlanta Ballroom A

Recent regulatory changes now promote the increase use of small unmanned aircraft systems (drones). Emerging drone technology has many advantages over traditional approaches to the planning and management of construction projects. They can provide real-time, high-resolution data much faster and at significantly lower costs than other land-based and airborne methods. Steps to protect the public and your organization, such as insurance requirements and drone-pilot qualifications, will be discussed.

**Speaker:** Stephen Ellingson, TRC Solutions

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**Speaker:** Mike Luecker, USDA-RD
Technical Session 11: Track A, B, C and D
11:00 a.m. – 12:00 p.m. (1 PDH)

Track A – Designing And Building A New City Center For A New City
Atlanta Ballroom C

City Springs, formerly known as Sandy Springs, underwent a complete transition. A city that was once perceived as a “unincorporated suburb in Atlanta” has a fresh new look. Designed and planned by Goody-Clancy of Boston, City Springs spreads across 14 acres and has everything from a community theater to a residential neighborhood. The project, which was completed on a highly accelerated basis using the CM at risk delivery method, was completed well within the $222 budget for the public component, and is an extremely successful example of an integrated delivery process.

Moderator: Ennis Parker, Georgia Institute of Technology School of Building Construction

Speakers: Frank Crittenden, Carter Associates; George Bushey, AIA, Rosser International; Hayes Todd, Holder Construction Company (CM); Russell K. (Rusty) Paul, Mayor, City of Sandy Springs, Georgia

Atlanta Ballroom B

MassDOT has procured 26 design-build projects totaling $1.9 billion. The program continues to incorporate lessons learned and industry recommended practices. The procurement for the $90 million I-93 bridge replacement over the Merrimack River is an example of its new risk-based approach to design development. Limiting prescriptive requirements gave the successful DB entity more flexibility to develop the best design solutions and manage project risks. This presentation will highlight the key procurement and environmental permitting strategies adopted by MassDOT and the innovations the SPS New England/HNTB team were able to incorporate in their alternative technical concept and technical proposal.

Speakers: Anne J. Gorczyca, P.E., M.ASCE, MassDOT; Gary Bua, P.E., HNTB; Tim McLaughlin, P.E., SPS New England, Inc.

Track C – Legislative Update: What’s Happening in Washington on Infrastructure Issues

Recent polling indicates that Americans overwhelmingly identify infrastructure investment as a policy area they would like Congress and President Trump to prioritize, and infrastructure issues have several significant “wins” in Congress last year from the passage of WRDA and FAA Reauthorization to support infrastructure investment. Learn what is happening on Capitol Hill when it comes to water issues, what to watch for in 2019, and how engineers can get involved and influence policy.

Session Moderators/Panelists: Brian Pallasch, Managing Director, Government Relations & Infrastructure Initiatives; Maria Matthews, Senior Manager, Grassroots Program

Track D – Legal Affairs and Dispute Resolution Paper Presentations
Atlanta Ballroom D

LADR-423 Late and Non-Payment within the Construction Industry-Causes, Effects, and Solutions
Speaker: Hector Martin, R.Eng, M.ASCE, University of the West Indies

LADR-447 Till debt do us part - Exploring Knowledge Transfer enablers for successful construction joint ventures

Closing Plenary Luncheon
12:00 – 1:30 p.m. | Georgia Ballroom

2019 Construction Management Award Presentation to Amarjit Singh, P.E., Ph.D., F.ASCE, University of Hawaii at Manoa, Department of Civil Engineering

Closing Plenary: Water for Atlanta

The City of Atlanta was faced with two challenges. First, their emergency raw water reserve was limited to just three days. Second, their aging pump and piping system was over 100 years old, which greatly increases the risk of potential service disruption. To combat these challenges, the City of Atlanta needed to expand their raw water storage capacity and increase the emergency raw water reserve to more than 30 days. The project will address how Atlanta’s goal of achieving a sustainable water infrastructure for future generations.

Panelists: Ade Abon, Director, Department of Watershed Management City of Atlanta; Robert Huie, Project Director, PC, Jake Coibion, Project Manager, Atkinson Construction; Joe Ussery, Design Project Manager, River 2 Tap (R2T)

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

Additional Tickets: $80

Technical Tour
2:00 – 5:30 p.m.

Bellwood Quarry Project (1 PDH)

Expanding from the closing plenary session’s panel discussion, attendees will experience a tour of the new quarry pump station facilities. This includes taking a trip down into the quarry to see the tunneling operations and hear a review of the scope and history of the underground work performed to date. Tour participants will also visit the Hemphill Water Treatment Plant site, where a new pump station located along the route of the tunnel is being constructed.

Meet in the lobby of the hotel at 1:45 p.m. The bus will depart promptly at 2:00 p.m.

Additional Fee: $80
Exhibit Hall Hours

Thursday, March 7 2:00 – 6:30 p.m.
Friday, March 8 10:30 a.m. – 4:00 p.m.
Saturday, March 9 7:30 – 11:00 a.m.

Exhibitors

**Booth 10: ASCE Georgia Section** – The Georgia Section of the ASCE has approximately 2,600 members scattered throughout the state of Georgia that are served by 3 Branches and 5 Student Chapters.

**Booth 1: Elastizell Corporation of America** – Producing lightweight cellular concrete for Engineered Fill and Roof Decks. Solving load issues for over 40 years with a national network of qualified and approved applicators.

**Booth 2: GPRS** – GPRS provides nationwide underground utility location services as well as concrete scanning to locate critical targets within the surface.

**Booth 8: Headed Reinforcement Corp** – High Performance Reinforcement Products for Structural Integrity and Constructability.

**Booth 9: LiRo** – The LiRo Group provides construction and program management, design, and environmental solutions for government, institutional, transportation, and infrastructure projects. Visit us at www.liro.com.

**Booth 3: Oldcastle Infrastructure** – One of North America’s largest manufacturer of utility products and construction accessories serving telecommunications, energy, transportation, building structures and stormwater markets.

**Booth 6: Spatial Networks** – Spatial Networks delivers data and technology products that enable organizations to identify opportunities, reduce uncertainty, and obtain valuable insights into their field operations.

**Booth 11: Synthetex** – Synthetex is the leading manufacturer and principal supplier of HYDROTEX® highly engineered fabric formed concrete erosion control and scour protection systems.

**Booth 4: Utility Mapping Services Inc.** – Utility Mapping Services, Inc.’s experts in utility engineering, utility infrastructure data management, Lidar, and 3D-BIM applications provide industry leading solutions for complex utility engineering projects.

**Booth 5: WTS Atlanta** – WTS is an international organization dedicated to building the future of transportation through the global advancement of women.
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