2019 ASCE Wisconsin Section Annual Meeting

Meeting Schedule and Program

Friday, October 4, 2019

Featured Speakers:

Daniel Wright, PhD, UW-Madison Assistant Professor

Bob Lindmeier, Chief Meteorologist at WKOW 27 ABC

Crowne Plaza Hotel Madison

4402 E Washington Avenue, Madison, Wisconsin 53704

Welcome!

The ASCE Wisconsin Southwest Branch is pleased to welcome you to the 2019 Wisconsin Section Annual Meeting.

UW-Madison Assistant Professor Daniel Wright, PhD and Chief Meteorologist Bob Lindmeier at WKOW 27 ABC will present jointly as Keynote speakers for the conference. Dr. Wright's presentation *The Effects of Extreme Storm Events on Future Civil Engineering Design* will address worsening rainfall extremes and how the overwhelming evidence of such has not translated into actionable information needed by engineers. Chief Meteorologist Bob Lindmeier's presentation *Solving the Climate Challenge* will address The Science, The Consequences, and The Solutions surrounding our current climate challenges.

The Planning Committee is also pleased to have Jon Schmidt, P.E., SECB present *The Decline of Engineering Judgment* as the Conference Ethics Presentation. Jon is the President of the National Council of Structural Engineers Associations and his presentation will discuss the current state of the industry and the impact that federal, state, and local regulations are having on an engineer's ability to inject imagination and creativity into their work.

Finally, the Committee is thrilled to welcome ASCE President-Elect Kancheepuram "Guna" N. Gunalan to the Annual Meeting to address our membership. In addition to his address, President-Elect Kancheepuram is scheduled to present during a conference technical session.

Attendees of the entire meeting will be able to obtain up to 6 PDHs, including at least one Ethics credit.

Thank you for joining us!

ASCE WISCONSIN SECTION Southwest Branch

2019 Annual Meeting Planning Committee

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Member: Justin Bilskemper, P.E.

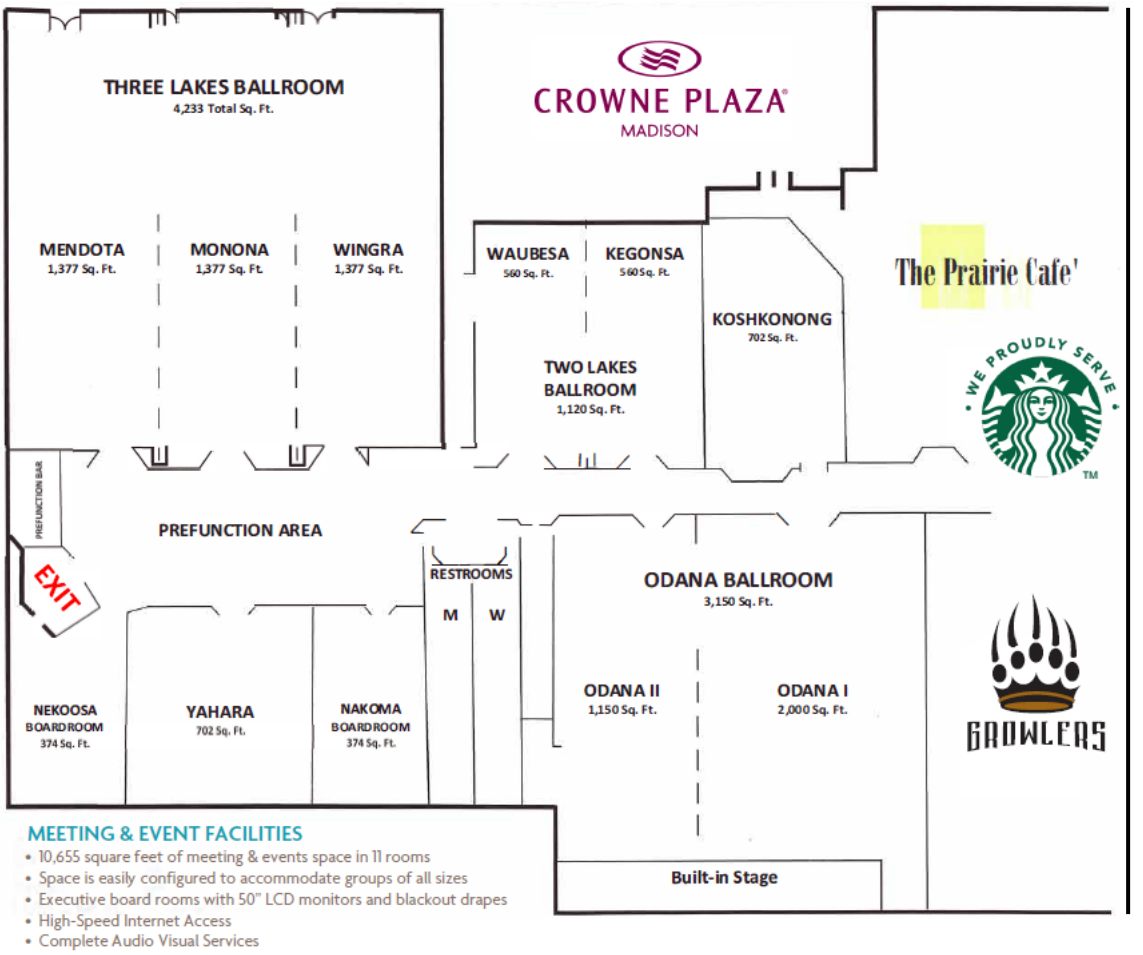
Member: Larry Ryan, P.E.

Member: Matt Buckli, P.E.

2019 ANNUAL MEETING SCHEDULE

Time	Session	Location
7:00 am – 8:00 am	Registration / Continental Breakfast	Pre-Function / Lobby
8:00 am – 8:50 am	Welcome, Announcements, and Address by ASCE 2019 President-Elect K. N. Gunalan, Ph.D., P.E., F.ASCE, D.GE.	Three Lakes Ballroom
8:50 am – 9:50 am	Conference Ethics Presentation: *The Decline of Engineering Judgment* by Jon Schmidt, P.E., SECB	Three Lakes Ballroom
9:50 am – 10:10 am	Break / Exhibits	Pre-Function / Lobby
10:10 am – 11:00 am	Technical Session I	Koshkonong Odana I Odana II Two Lakes Ballroom
11:00 am – 11:15 am	Break / Exhibits	Pre-Function / Lobby
11:15 am – 12:05 pm	Technical Session II	Koshkonong Odana I Odana II Two Lakes Ballroom
12:05 pm – 1:40 pm	Lunch / Networking / Wisconsin Section Awards	Three Lakes Ballroom
1:40 pm – 2:40 pm	Joint Keynote Address: *The Effects of Extreme Storm Events on Future Engineering Design* by Daniel Wright, PhD, UW-Madison Assistant Professor and *Solving The Climate Challenge* by Bob Lindmeier, Chief Meteorologist at WKOW 27 ABC	Three Lakes Ballroom
2:40 pm – 3:00 pm	Break / Exhibits	Pre-Function / Lobby
3:00 pm – 3:50 pm	Technical Session III	Koshkonong Odana I Odana II Two Lakes Ballroom
3:50 pm – 4:05 pm	Break / Exhibits	Pre-Function / Lobby
4:05 pm – 4:55 pm	Technical Session IV	Koshkonong Odana I Odana II Two Lakes Ballroom

Crowne Plaza Madison Map



Opening Remarks

8:00 AM to 8:50 AM

Location: Three Lakes Ballroom

WELCOME AND ANNOUNCEMENTS

Speakers: Kelly Trac, P.E. and Terry Armstrong, P.E., 2019 Annual Planning Committee Co-Chairs

MEMBERSHIP ADDRESS

Speaker: K. N. Gunalan, Ph.D., P.E., F.ASCE, D.GE., ASCE 2019 President-Elect

ASCE 2019 President-Elect Kancheepuram "Guna" N. Gunalan, Ph.D., P.E., F.ASCE, D.GE., will address attendees of the Annual Meeting.

Conference Ethics Presentation

8:50 AM to 9:50 AM

Location: Three Lakes Ballroom

Speaker: Jon Schmidt, P.E., SECB

Topic: The Decline of Engineering Judgment

The ancient Greek philosophers identified three distinct categories of knowledge: episteme, knowing that something is the case; techne, knowing how to achieve a predefined outcome; and phronesis, knowing how to act in a contextually sensitive and appropriate way. Modern culture increasingly embraces the first two (theoretical knowledge and technical rationality), while downplaying the third (practical judgment). Rules and incentives have become ubiquitous, reducing or even eliminating opportunities for the exercise of discretion. In the construction industry, the proliferation of federal, state, and local regulations is steadily diminishing the latitude for engineers to inject imagination and creativity into their work. Expanded technical criteria and standards are the result of a well-meaning but misguided attempt to legislate design outcomes by providing an increasingly elaborate set of instructions. Codes of ethics typically prescribe limits on behaviors from outside the practice of engineering itself, rather than fostering attributes of character that are integral to it. Adopting performance-based design methodologies and a virtue-based approach to engineering ethics have the potential to restore the proper role of practical judgment, and perhaps serve as a model for all of society.

Technical Session I

10:10 AM to 11:00 AM

ENVIRONMENTAL AND WATER RESOURCES (Odana I)

Speaker: Suzy Limberg, Storm Water Program Coordinator - Municipal & Technology Programs, Wisconsin Department of Natural Resources WDNR"

Topic: MS4 General Permit and eReporting Updates

This session will present on the recently revised Municipal Separate Storm Sewer System (MS4) general permit, including the major changes in the permit and upcoming permit compliance requirements. A brief overview MS4 eReporting System will also be provided.

STRUCTURAL (Two Lakes Ballroom)

Speakers: Bob Schumacher P.E., Senior Project Manager, Larson Engineering, Inc., Milwaukee, WI
Levi Warner, P.E., S.E., Project Engineer, Larson Engineering, Inc., Appleton, WI

Topic: Raise the Roof, Summerfest American Family Insurance Amphitheater 2020 Renovation

Many top acts in the entertainment industry put on travelling shows that have very elaborate stage set ups that require up to 60' clearance over the stage, this made the Milwaukee Summerfest Amphitheater less desirable and unbookable for many of the best national acts with a short 39' clearance over the stage of the 1987 vintage steel framed roof. This presentation will discuss the planning, design and construction aspects involved in raising the 25,000sf 300 ton center portion of the amphitheater roof 26 feet as part of the $50million renovation of the Amphitheater.

GEOTECHNICAL (Odana II)

Speaker: Greg Terri, P.E., Area Manager – Hayward Baker St. Louis
Yan Zhang, Ph.D., P.E., Engineer - Hayward Baker

Topic: Case Histories in Static and Seismic Mitigation using Ground Improvement

The purpose of this presentation is to provide an overview of seismic-induced liquefaction hazards and focus on mitigation using ground improvement, integrating with ground improvement for static support. In the current state of practice, liquefaction-associated hazards are often mitigated using ground improvement techniques through one or a combination of the following four (4) mechanisms: (A) Densification via compaction efforts; (B) Cementation via soil mixing or bio-cementation; (C) Shear stress/strain reduction via reinforcement in soil mass; (D) Excess pore pressure relief via enhanced drainage. Through a series of case studies featuring both static and seismic improvement, the following ground improvement techniques will be presented: compaction grouting, vibro compaction, rigid inclusions and earthquake drains. The design and installation challenges will be discussed and a performance-based design procedure for liquefaction mitigation, in accordance with ASCE 7 and IBC, will be presented.

TRANSPORTATION (Koshkonong)

Speaker: Mike Cechvala, City of Madison Department of Transportation

Topic: City of Madison East-West Bus Rapid Transit (BRT) Planning Study

Madison has experienced explosive growth that has provided economic opportunities and challenges. The transportation system that supported our growth is maxed out – it cannot take us to the next step. We need to move from being a big little city to a little big city - developing the transportation infrastructure needed for a metro region approaching one million. Madison is pursuing an integrated system that includes focused investments in rapid transit.

Madison has spent several years planning for a bus rapid transit (BRT) system to serve as the core of its transportation network. Four initial corridors are planned organized as an east-west route and north-south route. The first project will be an east-west line through central Madison serving the highest ridership areas of the city. The BRT line will have limited stops, frequent service, transit signal priority, dedicated bus lanes over about half of the route, and stations with off-board fare collection. Service is planned to begin in 2024.

Technical Session II

11:15 AM to 12:05 PM

ENVIRONMENTAL AND WATER RESOURCES (Odana I)

Speaker: Bill Selbig, Research Hydrologist, Upper Midwest Water Science Center UMW

Topic: Investigating the Stormwater Quantity and Quality Impacts of Urban Trees

Trees have long been a valued feature of the urban landscape. They provide a host of benefits such as habitat, aesthetics, energy savings, and noise reduction. Trees are also an important part of the urban hydrologic cycle. The functions and value of trees have recently gained attention as viable tools in the management of urban stormwater. Research on the interactions between urban trees and stormwater quantity and quality has revealed a double-edged sword. A community with dense overhead tree canopy may benefit from reduced stormwater runoff volume through interception, transpiration, and infiltration but may also suffer from excess nutrients leached to nearby receiving waters from leaf litter. This presentation will highlight two ongoing research projects that will help environmental managers assess the stormwater volume reduction potential of urban trees as well as understand how municipal leaf collection and street cleaning programs can limit the amount of nutrients in stormwater runoff.

STRUCTURAL (Two Lakes Ballroom)

Speaker: Jordan Komp, P.E., S.E., Senior Associate, Thornton Tomasetti

Topic: Ascent: The Future of Mass Timber

According to a 2018 United Nations report, "building construction and operations accounted for 36% of global final energy use and nearly 40% of energy-related carbon dioxide (CO2) emissions in 2017". The sustainable practices and engineering principles behind mass timber provide an exciting opportunity to add a sustainable material to the designer's tool belt. The presentation will focus on:

- Ascent: A 22-story mass timber residential tower, which will be located in Milwaukee's East Town neighborhood. Upon completion, Ascent will be the tallest timber building in the Western Hemisphere. Jordan will discuss the structural design of the tower, elaborating on the challenges associated with a project of this magnitude.
- Current code challenges and developments related to the IBC
- Pushing the limits of mass timber construction, and the associated technical challenges and required research.

CONSTRUCTION (Odana II)

Speaker: Chris James, Dane County Parks Department,
Jesse Schreiner, KL Engineering

Topic: Lower Yahara River Trail

The concept of a bicycle pedestrian trail that would connect the Village of McFarland to the Capital City Trail was first identified in the 1996 adopted Dane County Park and Open Space Plan. Since that time, support for this trail grew steadily into what is now the Lower Yahara River Trail, a proposed shared-use trail spanning nearly 10 miles along the Yahara River between the Cities of Madison and Stoughton. Phase I of the Lower Yahara River Trail is a 2.5-mile section that extends from McDaniel Park in McFarland through the Capital Springs Recreation Areas to the Capital City Trail in Madison. This complex project required collaboration with a wide array of stakeholders, regulatory agencies, and design professionals including the Dane County Parks Department, the Wisconsin Department of Natural Resources, the U.S. Army Corps of Engineers, the Wisconsin Department of Transportation, Wisconsin and Southern Railroad, the State of Wisconsin Historic Preservation Office, University of Wisconsin-Milwaukee Cultural Resource Management, the Ho-Chunk Nation, and the Federal Highway Administration to design and construct the longest bicycle pedestrian boardwalk in Wisconsin.

TRANSPORTATION (Koshkonong)

Speaker: Troy Pankratz, P.E. - Mead & Hunt
Scott Hasburgh, P.E., Mead & Hunt

Topic: WIS 48 Intersection Modernization - Rice Lake, WI

This presentation will discuss the design of an intersection modernization project along US 53 at WIS 48 in the City of Rice Lake. The proposed project encompasses the interchange ramp terminals and two adjacent intersections. The existing interchange area has deficiencies attributing to safety and operational issues which are being exacerbated by the increased development in the area. The project addresses those concerns by converting three intersections to roundabouts and one intersection to signalized control. Design challenges on the project include: deficient vertical clearance on the US 53 overpass structures, pedestrian and bicycle accommodations, large truck accommodation, and staging allowing the interchange to remain open to traffic during construction. This presentation will discuss these challenges and the unique design approaches that were utilized in the development of this project.

Lunch | Networking | ASCE Wisconsin Section Awards

12:05 PM to 1:40 PM

Location: Three Lakes Ballroom

WISCONSIN SECTION AWARDS RECIPIENTS

Individual Award Winners

Distinguished Service Award – Kenneth Mika, P.E., M.ASCE

Young Civil Engineer of the Year Award – Joshua Mitchell, P.E., M.ASCE

Engineer in Education Award – Mark Federle, PhD, P.E., F.ASCE

Engineer in Private Industry Award – Ryan English, P.E., M.ASCE

Engineer in Consulting Practice Award – John McCarthy, P.E., M.ASCE

Project Award Winners

Category A – Projects with Construction Cost Less Than $2 Million:
Estabrook Dam Removal on the Milwaukee River for Milwaukee Metropolitan Sewerage District, submitted by Rusty Schroedel of AECOM

Category B (one of two winners) – Projects with Construction Cost Between $2 Million and $10 Million:
Janesville West Town Square Project, submitted by Justin Bilskemper of Strand Associates

Category B (one of two winners)– Projects with Construction Cost Between $2 Million and $10 Million:
Little Lake Boardwalk Bridges in Neenah/Menasha, submitted by Patrick Skalecki of GRAEF

Category C – Projects with Construction Cost Between $10 Million and $20 Million:
River Prairie Planning, Design and Construction Project in Altoona, submitted by Lisa Fleming of Ayres Associates

Category D – Projects with Construction Cost More Than $20 Million:
Zoo Interchange Core and Adjacent Arterials Project in Milwaukee County, submitted by William Mohr of the Wisconsin Department of Transportation, Southeast Region

Joint Keynote Address

1:40 PM to 2:40 PM

Location: Three Lakes Ballroom

The Effects of Extreme Storm Events on Future Engineering Design

by Daniel Wright, PhD, UW-Madison Assistant Professor

and

Solving the Climate Challenge

by Bob Lindmeier, Chief Meteorologist at WKOW 27 ABC

The Effects of Extreme Storm Events on Future Engineering Design – by Daniel Wright, PhD, UW-Madison Assistant Professor

The overwhelming evidence for worsening rainfall extremes has not translated into actionable information needed by engineers. In this presentation, I explain two main reasons for this failure. First, relevant engineering intensity-duration-frequency (IDF) standards such as the "100-year storm" are so rare that conventional statistical trend analysis methods are not applicable. Second, updating IDF curves has proven prohibitively expensive and time-consuming, as shown by NOAA's Atlas 14 project. I will use a simple technique to show that 100-year storms have become much more common due to global warming, and to demonstrate serious inadequacies in our current hydrologic design standards and infrastructure. I will close with several examples of how modern data sources and computational techniques can help to address these shortcomings.

Solving The Climate Challenge – Bob Lindmeier, Chief Meteorologist at WKOW 27 ABC

It's divided into three parts. The Science. I explain how C02 concentrations have increased dramatically since humans started to burn fossil fuels. How this increase in atmospheric C02 along with other greenhouse gasses has warmed our climate. The Consequences. How the warming climate has supercharged the atmosphere which has lead to an increase in severe weather events. I delve into the consequences we're experiencing here in the Madison area. The Solutions: There are solutions that can minimize the effects of future warming, if we have the political will to implement them.

Technical Session III

3:00 PM to 3:50 PM

ENVIRONMENTAL AND WATER RESOURCES (Odana I)

Speaker: Steve Vavrus, UW-Madison Center for Climatic Research
Nadia Vogt, Milwaukee Metropolitan Sewerage District
Camilla Correll, Emmons Oliver Resources
Greg Fries, City of Madison Engineering
Robert J. Montgomery, Montgomery Associates/Emmons Oliver Resources

Topic: Renewed Wisconsin Initiative on Climate Change Impacts

Much of the service life the civil engineering infrastructure being constructed today will be subject to climate conditions substantially different than those that exist now. It will be important for the civil engineering design community to adopt approaches to testing resilience and robustness of their designs to a potential range of future conditions, despite the uncertainty of those projections. Rainfall and temperature changes will certainly have an impact in water resources and land use, but the design of almost all infrastructure will be affected. At a national level, these issues have been evaluated in the 2018 ASCE Manual on Engineering Practice 140, Climate-Resilient Infrastructure, adaptive design and risk management. In Wisconsin, the Wisconsin Initiative on Climate Change Impacts (WICCI) process is being renewed, including an emphasis on civil engineering infrastructure impacts and adaptation. This technical session will include a brief description of the concepts presented in Manual of Practice 140 and the renewed WICCI initiative. The panel discussion will present a range of infrastructure analysis and design issues that could be addressed, and will solicit ideas, suggestions and possibly participants in the new WICCI infrastructure working group.

GEOTECHNICAL (Odana II)

Speaker: Eric W. Bahner, P.E., D. GE, Chief Engineer/Estimator, Terra Engineering & Construction Corporation

Topic: Judge Doyle Square—Terra Sets a New Precedent in the Midwest

The Judge Doyle Square project is located one block from the Capitol Square in downtown Madison, Wisconsin. The project will ultimately consist of three structures that will house a hotel, office, retail space, apartments plus an above and below-grade parking structure. Terra Engineering & Construction Corporation was selected by the General Contractor, J.P. Cullen, to design and construct the temporary earth retention system for this structure. The 70 ft deep soil nailed excavation is the deepest completed in the Madison area and is also believed to be among the deeper soil nailed excavations in the country.

CONSTRUCTION (Koshkonong)

Speaker: Jeremy Thomas, AECOM
Paul Wiedmeyer, Michels
Andrew Roy, Gilbane Building Company

Topic: Milwaukee City Hall Foundation Repair Project

The Milwaukee City Hall Foundation Restoration project is a multi-year design build project being implemented for the City of Milwaukee. This presentation will provide an overview of the history of the project and the development of the design-build contracting methodology for the project. The presentation will provide a brief overview of the history of the structure and the design that has been developed, but will focus on the construction implementation of the work. We will discuss the logistical challenges of a large construction project being implemented in and around the active City Hall complex. We will discuss the design evolution that has occurred through the construction process and provide insight on the tools that have been utilized for scheduling, budget management and data visualization for this challenging project.

ETHICS (Two Lakes Ballroom)

Speaker: K. N. Gunalan, Ph.D., P.E., F.ASCE, D.GE., ASCE 2019 President-Elect

Topic: Engineering Ethics

Ethics plays a key role in engineering and it is important to be diligent incorporating ethical practices into the profession. This presentation will cover the basics of engineering ethics that each and every engineer needs in their practice.

Technical Session IV

4:05 PM to 4:55 PM

ENVIRONMENTAL AND WATER RESOURCES (Odana I)

Speaker: Greg Fries, Deputy City Engineer, City of Madison
Janet Schmidt, Stormwater Principal Engineer, City of Madison

Topic: 2018 Madison Flood and Design

On August 2, 2018, the west side of Madison and areas west experienced a rain event that exceeded the 1000 – year event using the new Atlas 14 IDF information. Taken alone this storm was certainly an outlier, however over that past 5 years this same area has experienced multiple rain events exceeding the 100 year event. As a result of these events, Madison has undertaken a citywide watershed study effort and a reconsideration of its' design standards for stormwater systems both for new and redevelopment. This talk will discuss the flood event, the responses to it both short and long term, and how the City is working to evolve our storm systems to be more resilient to these types of events going forward.

GEOTECHNICAL (Odana II)

Speaker: Dante Fratta, PhD, Associate Professor - Geological Engineering and Civil and Environmental Engineering, University of Wisconsin-Madison
Douglas Riedemann, Undergraduate Student - University of Wisconsin-Madison

Topic: Time Domain Reflectometry (TDR) for Monitoring Scouring next to Bridge Piers

A time domain reflectometry (TDR) system was deployed next to the piers of the Highway 29/124 bridge over the Chippewa River in Chippewa Falls, Wisconsin. Inspections of the bridge led to the discovery that some of the piers sit on unconsolidated gravel. The concern is that water could then sweep away the unconsolidated sediment, weakening the foundation support. Our research team designed and deployed a twelve-probe time domain reflectometry (TDR) system next to three piers on the north-bound side of the bridge to monitor the level of the sediments over time. The TDR system has been deployed since September 2018 and has been relaying data since then. The collected data allowed the development of a methodology for the remotely, long-term monitoring of scouring. This presentation summarizes all these activities and provides a description of the fundamental principles of the operation and interpretation of the TDR monitoring system.

CONSTRUCTION (Koshkonong)

Speaker: Noah Meisner, Senior Undergraduate Student, Marquette University Engineers without Borders Chapter
Lucas Kazmer, Senior Undergraduate Student, Marquette University Engineers without Borders Chapter

Topic: EWB-Marquette El Aguacate School Project Construction in Guatemala

The El Aguacate school is a student-led project encompassing the design and construction of a confined masonry schoolhouse with a handwashing station in Guatemala. Located in the Mayan community of El Aguacate, the project directly impacts 120 students and 4 teachers seeking greater capacity and a safe/sustainable learning environment. The bridge project's main goal was to help children get to school safely. The bridge succeeded, and attendance has increased leading to the need for more classrooms. Children will be removed from an old, structurally unstable classroom, increasing the safety of their learning environment. In all, a new school building will benefit an additional 90 students, aiding the future development of the community as a whole.

The school project began in the summer of 2018 with a team investigating and collecting information at the proposed site location. A topographical survey of the site was collected and soil samples were brought back for analysis. The design phase consisted of determining the structure type and architectural design. Professional mentors ensured each step was done properly and that design specifications met professional industry standards. Implementation occurred in two phases with construction expected to be completed in Oct. 2019.

Over 20 Marquette engineering students of varying age and major collaborated with five professional mentors to develop skills related to geotechnical, structural, electrical, and construction engineering. This project provided an excellent forum for all engineering students and professionals involved to learn more about sustainability, communication, and construction in developing countries.

TRANSPORTATION (Two Lakes Ballroom)

Speaker: Rob Knorr, P.E., WisDOT
Luke Holman, P.E., Strand Associates, Inc.

Topic: Madison Beltline Dynamic Part-Time Shoulder Use (DPTSU) Study

The Wisconsin Department of Transportation (WisDOT) Southwest Region is currently examining the feasibility of redesigning the Madison Beltline shoulder lanes to allow their use during peak travel times. The practice, also known as dynamic part-time shoulder use, is currently in place in at least 17 states. It allows traffic on paved shoulders during peak travel times using changeable message signs, and is recognized by the Federal Highway Administration as a safe and cost-effective way to alleviate congestion and improve travel time reliability.

Thank You for Attending the 2019 Wisconsin Section Annual Meeting!

AMERICAN SOCIETY OF CIVIL ENGINEERS

How can we make this meeting and ASCE better?

Please provide any suggestions or feedback to members of the planning committee, any of the board members mentioned in the program, or the conference committee chairs listed below.

Co-Chair: Kelly Trac, P.E.
Co-Chair: Terry Armstrong, P.E.
ASCEWISW.Info@gmail.com

Interested in becoming involved in ASCE?

We are always seeking people interested in becoming involved with ASCE. Positions are available for various time commitments—a few hours a month up to a few hours a week. Please contact a board member or an Annual Meeting Committee member for more information. ASCE provides great networking opportunities!

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ASCE WISCONSIN SECTION 2019 ANNUAL MEETING

Madison, Wisconsin – Friday, October 4, 2019

Conference organizers recommend that in addition to this brochure, retain any session handouts or personal notes. DSPS rules indicate that they can request this information to confirm attendance and content of PDH sessions in case of audit.

CONFERENCE ETHICS PRESENTATION: 8:50 – 9:50 AM		
LOCATION	**TOPIC**	**PDH**
Three Lakes Ballroom	**Ethics:** Jon Schmidt, P.E., SECB: *The Decline of Engineering Judgement*	1.0 PDH ☐

TECHNICAL SESSION I: 10:10 – 11:00 AM		
LOCATION	**TOPIC**	**PDH**
TBD	**Geotechnical**: Greg Terri, P.E. and Yan Zhang, Ph.D.: Case Histories in Static and Seismic Mitigation using Ground Improvement	1.0 PDH ☐
TBD	**Structural:** Bob Schumacher P.E. and Levi Warner, P.E., S.E.: Raise the Roof, Summerfest American Family Insurance Amphitheater 2020 Renovation	1.0 PDH ☐
TBD	**Transportation:** Mike Cechvala: City of Madison East-West Bus Rapid Transit (BRT) Planning Study	1.0 PDH ☐
TBD	**Water/Environmental**: Suzy Limberg: MS4 General Permit and eReporting Updates	1.0 PDH ☐

TECHNICAL SESSION II: 11:15 AM – 12:05 PM		
LOCATION	**TOPIC**	**PDH**
TBD	**Water/Environmental:** Bill Selbig: Investigating the Stormwater Quantity and Quality Impacts of Urban Trees	1.0 PDH ☐
TBD	**Construction:** Chris James and Jesse Schreiner: Lower Yahara River Trail	1.0 PDH ☐
TBD	**Transportation:** Troy Pankratz, P.E. and Scott Hasburgh, P.E.: WIS 48 Intersection Modernization - Rice Lake, WI	1.0 PDH ☐
TBD	**Structural:** Jordan Komp, P.E., S.E.: Ascent: The Future of Mass Timber	1.0 PDH ☐

JOINT KEYNOTE ADDRESS: 1:40 – 2:40 PM		
LOCATION	**TOPIC**	**PDH**
Three Lakes Ballroom	Daniel Wright, PhD: The Effects of Extreme Storm Events on Future Engineering Design Bob Lindmeier, Chief Meteorologist: Solving The Climate Challenge	1.0 PDH ☐

TECHNICAL SESSION III: 3:00 – 3:50 PM		
LOCATION	**TOPIC**	**PDH**
TBD	**Geotechnical:** Eric W. Bahner, P.E., D. GE: Judge Doyle Square—Terra Sets a New Precedent in the Midwest	1.0 PDH ☐
TBD	**Construction:** Jeremy Thomas, Paul Wiedmeyer, and Andrew Roy: Milwaukee City Hall Foundation Repair Project	1.0 PDH ☐
TBD	**Ethics:** K. N. Gunalan, Ph.D., P.E., F.ASCE, D.GE.: Engineering Ethics	1.0 PDH ☐
TBD	**Water/Environmental:** Robert J. Montgomery, P.E., Daniel Wright, PhD, Steve Vavrus, and Camilla Correll, P.E.: Renewed Wisconsin Initiative on Climate Change Impacts	1.0 PDH ☐

TECHNICAL SESSION IV: 4:05 – 4:50 PM		
LOCATION	**TOPIC**	**PDH**
TBD	**Geotechnical:** Dante Fratta, PhD and Douglas Riedemann: Time Domain Reflectometry (TDR) for Monitoring Scouring next to Bridge Piers	1.0 PDH ☐
TBD	**Construction:** Noah Meisner and Lucas Kazmer: EWB-Marquette El Aguacate School Project Construction in Guatemala	1.0 PDH ☐
TBD	**Transportation:** Rob Knorr, P.E. and Luke Holman, P.E.: Madison Beltline Dynamic Part-Time Shoulder Use (DPTSU) Study	1.0 PDH ☐
TBD	**Water/Environmental:** Greg Fries and Janet Schmidt: 2018 Madison Flood and Design	1.0 PDH ☐

By my signature, I attest that I attended the above check-marked sessions in their entirety and qualify for the PDH's assigned.

Printed Name: _____ Date: _____

Signature: _____

Retain this copy for your records

Thank You to the Wisconsin Section 2019 Annual Meeting Exhibitors!