



The 38th Annual

CEPDS



November 16, 2023 @ Purdue University

CEPDS in a Nutshell

STEW = Stewart Center // PMU = Purdue Memorial Union

IMPORTANT ROOM LOCATIONS

- **PMU Ballrooms (1st Floor)** — Breakfast, Opening Session, & Lunch
- **STEW 218** — Hospitality Room with LTAP & ASCE Table
- **Stewart Center** — Tracks/Sessions (see track pages 6-15 for room #s)

STUDENTS, LOOK FOR THIS ROCKET!

This icon means that session is recommended for you by ASCE Younger Members. Learn about more opportunities at CEPDS on page 6.



EXPERIENCE FUTURE WORLD VISION

Sponsored by ASCE

Our world is changing at an accelerating pace. Understanding the drivers of change is more critical than ever. Our future will require a new way of doing things. Experience this new plan and vision through virtual reality in the **HOSPITALITY ROOM** throughout the conference.

PARKING

Parking passes are available at registration. Use them to exit the Grant Street Garage. See the LTAP Table if you have any questions.

WE WANT YOUR FEEDBACK!

Let the CEPDS planning committee know what works and can improve by scanning the QR code to the right or visit tinyurl.com/CEPDSFeedback!



INDIANA LTAP

LOCAL TECHNICAL
ASSISTANCE PROGRAM
purdue.edu/inltap

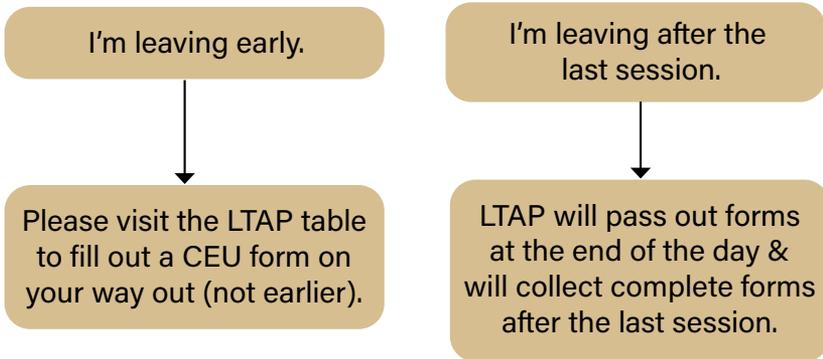
Your Road Map To Conference Credits

You will receive a CEU form at the end of the day. When it comes to receiving your educational credits (CEUs/PDHs/Road Scholar points), please remember the 3 Es:

Exit Equals Earnings

Simply put: when you turn in the form, the credit clock stops. Even if you plan on staying the whole day, you will only receive partial credit turning the form in early. **We want to ensure you receive all your credits!**

When are you leaving?



Credit certificates will be available for download three weeks after the conference. Please follow the instructions below to receive your certificate. If you have any issues, please email intlap@purdue.edu.

1. Sign into to our Learning Management System. *If you have never logged in before select the "Forgot your password?" link. Enter your work email address and select "Send Reset Link." Follow the email instructions to create a new password and gain access to the database.*
2. Select "My Credits" from the left side. For each event you will see a small medal icon on the right under actions.
3. Select that icon and your certificates should download as a PDF suitable to save and/or print.

Please email intlap@purdue.edu if you have any problems.

OPENING SESSION



PMU North/South
Ballroom



MODERATOR
Jennifer Sharkey
Indiana LTAP

Physical Artificial Intelligence at Purdue University and the Role of the Civil Engineer

8:30 AM - 9:20 AM

There is broad consensus that artificial intelligence (AI) is going to have sweeping changes on society. The practice of Civil Engineering is no exception. In fact, Civil Engineers were early adopters of “expert systems” for implementing routine systematic tasks such as design checks and joint detailing. Those applications were relatively straightforward because they provide systematic implementation of established engineering codes. However, as we look forward to more opportunities, it is important we remain focused on our technical and ethical responsibilities. This talk will discuss what Purdue University is doing in the physical AI space and the role that Civil Engineers can and should play.

Darcy Bullock, PE, Lyles Family Professor, Lyles School of Civil Engineering, Purdue University, West Lafayette, IN



Darcy Bullock is the Lyles Family Professor of Civil Engineering at Purdue University and serves as the director of the Joint Transportation Research Program (JTRP). Bullock is a Registered Professional Engineer in the State of Indiana and has 30 years of experience working closely with academia, transportation agencies, and private sector partners in the area of transportation systems and big data analytics.

To learn more, visit the Joint Transportation Research Program at <https://engineering.purdue.edu/JTRP>.

3 Contracts, 2 States and One Bridge

11:30 AM - 12:50 PM



**PMU North/South
Ballroom**

A lot of progress is being made as Indiana and Kentucky work to complete the critical I-69 connection with the I-69 Ohio River Crossing. Construction is well underway in Henderson and work will begin in Evansville early next year. The states will meet in the middle with the new river crossing.



Danny Corbin is a senior project manager at the Indiana Department of Transportation where he is a part of the Major Projects Delivery Team. He has more than two decades of transportation experience. Danny serves as project manager for multiple major projects for INDOT, including the I-69 Ohio River Crossing.



Mindy Peterson is public involvement director at Parsons where she leads communications for several major projects. She has nearly 30 years of combined communications and transportation experience and has served as spokesperson for I-69 ORX for more than 6 years.

During lunch, we will also recognize the ASCE OPAL Award Winners and participate in the installation of the ASCE Indiana Section Officers.



STEWART
310



MODERATOR
Matt Clark
CE Solutions

Artificial Intelligence in Engineering and Business

9:30 AM - 11:20 AM

- **Module 1:** AI 101
- **Module 2:** Data Privacy, Security, and Ownership Applications

1:00 PM - 4:50 PM

- **Module 3:** Innovative Tools Illuminating AI Applications
- **Module 4:** AI Draft Plan
- **Module 5:** Rethinking Firm Value and Systemic Operational Shifts
- **Module 6:** Industry Collaboration and Future Trends

Kristin Lynn Kautz, CPSM, Partner, JAM Idea Agency, Houston, TX



Kristin is an experienced marketer with over 25 years of expertise in the architecture, engineering, and construction industry. With a passion for innovation and technology, Kristin has become a leading expert in AI for the built environment, helping companies implement and integrate AI into their operations, from small firms to large corporations. AI is revolutionizing our industry. With a deep understanding of the latest AI trends and technologies, Kristin provides strategic guidance and develops customized organizational

structures, guidelines, policies, procedures, communications / roll-out, and training to ensure that companies can fully leverage AI to drive growth, improve efficiency and productivity, and enhance both client and employee satisfaction. Her unique blend of marketing expertise, industry knowledge, and technical know-how has made her a sought-after speaker and thought leader in the field of AI for the built environment. Kristin has been the featured AI speaker for Society for Marketing Professional Services (SMPS) locally, regionally, and nationally in addition to the Society for Design Administration (SDA), Project Mark, Zweig Group, Urban Land Institute, and multiple CEO cohorts. Kristin is committed to advancing the use of AI in the AEC industry and helping companies stay at the forefront of innovation. To learn more, visit www.jamideaagency.com/.

ASCE YOUNGER MEMBERS

Student-Focused Event Curated by ASCE Younger Members - Metro Indy

Metro Indianapolis's ASCE Younger Member Group has joined forces with the CEPDS committee to create a unique experience for students.



STEWART
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9:30 AM - 10:20 AM 

Civil Engineering Q&A Panel for ASCE Students and Younger Members

Wyatt Huber, Jessica Eichhorst, Anna Moyer, Vladimir Abou Sejaan, Calvin Rizzo



MODERATOR
Alex Duran
DGL

3:00 PM - 3:50 PM 

Civil Engineering Trivia, BINGO Prizes, and More!



STUDENTS, LOOK FOR THIS ROCKET!

This icon means that session is recommended for you by ASCE Younger Members.

ASCE Younger Members focuses on matters of the professional development of civil engineers 35 years of age and younger and facilitate their engagement with and participation in the Society. Use this QR Code to learn more!

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TO STAY UP TO DATE



ASCE INDIANA SECTION
Metropolitan Branch
YOUNGER MEMBER GROUP

TRANSPORTATION



STEWART
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**MORNING
MODERATOR**
Luis Laracuente
INDOT

**AFTERNOON
MODERATOR**
Wyatt Huber
*Kimley-Horn
Associates*



SPEAKER BIOS

	SESSION	SPEAKER(S)
8:30 AM	Opening Session	
9:30 AM	Transportation Management Plan (TMP) & Incident Management	<i>Doug Homan, HNTB Mischa Kachler, INDOT Kathy Borgmann, INDOT</i>
10:30 AM	Roundabouts for Rural Communities 	<i>Heather Kilgour, United Consulting Andy Allison, United Consulting</i>
11:30 AM	Lunch Keynote	
1:00 PM	Roundabout Design Challenges and Unique Solutions 	<i>Nick Murphy, American Structurepoint Jordan Bosse, American Structurepoint</i>
2:00 PM	Electric Vehicles for Engineers 	<i>George Watson, WSP</i>
3:00 PM	Complete Streets on a Local Arterial Roadway	<i>Nick Murphy, American Structurepoint Nick Correll, City of Indianapolis</i>

WE WANT YOUR FEEDBACK!
Let the CEPDS planning committee know what works and can improve.



TRANSPORTATION II

	SESSION	SPEAKER(S)
8:30 AM	Opening Session	
9:30 AM	Ground Improvement using Rigid Inclusions US 31 over NSRR and CR 100S	Mike Wigger, Terracon Chris Dyer, United Consulting
10:30 AM	I-465 Clear Path Case Study 	Kurtis Plohr, Parsons Brian Shattuck, INDOT
11:30 AM	Lunch Keynote	
1:00 PM	Project Scheduling 	Jeremy Richardson, United Consulting Jennifer Beck, INDOT
2:00 PM	146th Street and Allisonville Road Interchange 	Jim Neal, Hamilton County Highway Department Caleb Ross, United Consulting
3:00 PM	Federal Grants and Safe Streets for All	Eryn Fletcher, USDOT Andrew Rodewald, City of Noblesville



STEWART
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MORNING
MODERATOR
Mark Bailey
INDOT

AFTERNOON
MODERATOR
Jeremy Hunter
INDOT



SPEAKER BIOS

BRIDGE



STEWART
214AB



MODERATOR
Bryan Wright
BF&S



SPEAKER BIOS

SESSION		SPEAKER(S)
8:30 AM	Opening Session	
9:30 AM	Sherman Minton Bridge Project Case Study	<i>Daniel Corbin, INDOT</i> <i>Mary Jo Hamman, Michael Baker International, Inc.</i>
10:30 AM	INDOT's Bridge Design Toolbox	<i>Stephanie Wagner, INDOT</i>
11:30 AM	Lunch Keynote	
1:00 PM	US 136 over Wabash River: Load Rating, Refined Capacity Analysis, and Special Inspection of an Existing Segmental Post-Tensioned Bridge	<i>Amy Huebschman, EMCS Inc.</i> <i>Drew Bishop, WJE</i>
2:00 PM	INDOT and Digital Delivery	<i>Mark Bailey, INDOT</i>
3:00 PM	Helping the Next Generation of Bridges Reach Their Potential: The Benefits of Durability Design	<i>Kyle Stanish, Tourney Consulting</i>

WATER RESOURCES

SESSION	SPEAKER(S)	
8:30 AM	Opening Session	
9:30 AM	Delphi Water System Improvements 	<i>Matthew Spidel, BF&S</i> <i>Kameryn Wright, BF&S</i> <i>Jeffery Meyer, BF&S</i>
10:30 AM	RAFT - River Assessment Field Teams 	<i>Haley Cowart, White River Alliance</i>
11:30 AM	Lunch Keynote	
1:00 PM	We Can't Afford That! Pond Design & Maintenance 	<i>Taylor Eash, HWC</i> <i>Brian Neilson, HWC</i>
2:00 PM	Alternative Stormwater Management 101 	<i>Taylor Eash, HWC</i> <i>Brian Neilson, HWC</i>
3:00 PM	Lebanon Utilities Abner Longley Water Storage Facility	<i>John Lightner, BF&S</i>



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MORNING MODERATOR
Ken Olson
American Structurepoint

AFTERNOON MODERATOR
Steve Werling
Geopier



SPEAKER BIOS



WE WANT YOUR FEEDBACK!

Let the CEPDS planning committee know what works and can improve

ENVIRONMENTAL



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MODERATOR
Dan Miller
HNTB Corporation



SPEAKER BIOS

	SESSION	SPEAKER(S)
8:30 AM	Opening Session	
9:30 AM	Understanding and Implementing Noise Analysis	<i>Ron Bales, INDOT Nicole Fohey-Breting, INDOT Rich Connolly, HNTB</i>
10:30 AM	US Fish and Wildlife Information for Planning and Consultation (IPaC)	<i>Sandy Bowman, INDOT Mike Oliphant, United Consulting Aaron Toombs, United Consulting Jason Damm, Metric Environmental</i>
11:30 AM	Lunch Keynote	
1:00 PM	Update on the Supreme Court Ruling and its Impact to Waters of the US	<i>Deb Snyder, USACE Graham Wrin, IDEM</i>
2:00 PM	ProPEL Updates (ProPEL US 30/31 and ProPEL Indy) 	<i>Laura Hilden, INDOT Adin McCann, Advisor PM ProPEL 30/31 Tim Miller, ProPEL Indy OM</i>
3:00 PM	The Section 106 Process and Schedule Implications	<i>Mike Oliphant, United Consulting Aaron Toombs, United Consulting Candy Hudziak, Metric Environmental Shannon Zuercher, Metric Environmental</i>

MULTI-DISCIPLINE I

SESSION	SPEAKER(S)	
8:30 AM	Opening Session	
9:30 AM	INDOT Hydraulics Replacement-in-Kind and Other Policy Changes	<i>Bill Schmidt, INDOT Alex Schwinghamer, INDOT</i>
10:30 AM	CMc Delivery Projects for Public Entities	<i>Brad L. Bobich, Indianapolis Airport Authority Jarod Klaas, PE, Indianapolis Airport Authority</i>
11:30 AM	Lunch Keynote	
1:00 PM	Envision Platinum	<i>Todd Cavender, Indianapolis Airport Authority Shannon Gunn, Kimley-Horn Associates Alexandra Davis, C&S Companies</i>
2:00 PM	Bringing Metrics to Public Engagement 	<i>Lisa Wall, HNTB Daniel Curtis, HNTB</i>
3:00 PM	CMGC and Progressive Design Build	<i>Jeff Clanton, INDOT Dave Ayala, Parsons Kevin Jasinski, Burgess & Niple</i>



STEWART
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**MORNING
MODERATOR**
Akhtar Zaman
AES

**AFTERNOON
MODERATOR**
Subhi Bazlamit
INDOT



SPEAKER BIOS



WE WANT YOUR FEEDBACK!

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VERTICAL STRUCTURES

	SESSION	SPEAKER(S)
8:30 AM	Opening Session	
9:30 AM	Corrosion Science: Basics, Background & Key Players Throughout History	<i>Nick Drews, Vector Corrosion Technologies</i>
10:30 AM	Evaluation and Testing Methods to Understand Reinforced Concrete	<i>Brian Pailles, Vector Corrosion Technologies</i>
11:30 AM	Lunch Keynote	
1:00 PM	Extending the Life of Concrete Structures Through the Use of Cathodic Protection	<i>Eric Williams, Vector Corrosion Technologies</i>
2:00 PM	Evaluation, Repair, and Protection of Post Tension Structures	<i>Mike Kernan, Vector Corrosion Technologies</i>
3:00 PM	Demonstrations	<i>Vector Corrosion Technologies</i>



STEWART
214CD



MODERATOR
Tom Leahy
American Structurepoint



SPEAKER BIOS

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Membership moves you forward faster.

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- » **CONNECTION MAKERS.** Networking with peers and mentor, committee volunteer and policy roles, publishing, awards, and honors, free institute membership, join a Younger Member Group
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