



2021 ACEC-IA + Iowa DOT + FHWA Iowa Transportation Conference

Embassy Suites | Des Moines, Iowa

Thursday, September 30, 2021

Registration opens at 8:00 am | Program runs 8:30 am - 4:00 pm

Attend the largest transportation conference in Iowa designed to explore innovations in transportation design and construction. Attendees will also learn future work projections and challenges facing the Iowa DOT and the FHWA.

WHO SHOULD ATTEND?

- » Key Transportation Professionals
- » Designers, project managers, consultants, and planners in Iowa who work in the transportation area are encouraged to take advantage of this opportunity.

REGISTRATION

Please register online to save \$20 at www.cec-iowa.org (and receive an automated invoice for your records.)

- » ACEC-Iowa, Iowa DOT, or FHWA Members \$125 (includes online registration discount)
- » Non-members \$225 (includes online registration discount)
- » Participant not registering online \$20 (additional data entry fee)
- » State and Federal employees attending partial segments of the program will be charged a \$30 amenity fee.

REGISTRANT INFORMATION

Should you need to mail, fax, or email your registration, fill out the form below, add the \$20 data entry fee, and submit payment (payable to ACEC-Iowa) by September 23, 2021.

Name _____

Firm _____

Address _____

City _____

State Zip _____

Phone / Fax _____

Email _____

PAYMENT

Enclosed is a check payable to ACEC-Iowa for \$_____

Substitutions will be accepted at any time.

- » Return no later than September 23, 2021. Should you need to cancel on or before September 23, your registration fee will be returned less a \$15 administrative fee.
- » No refunds after September 23, 2021.

REGISTRATION MAILING ADDRESS

American Council of Engineering Companies of Iowa

1080 Jordan Creek Parkway, Suite 106C

West Des Moines, IA 50266

Phone 515.284.7055 | Fax 515.284.7301

Email info@cec-iowa.org

CONFERENCE MATERIALS BY:



HRGreen.

Conference Schedule

8:00 – 8:30 am REGISTRATION		
8:30 – 9:15 am	Opening Remarks – Updates from:	
	Iowa DOT – <i>Scott Marler</i> FHWA - Iowa Division – <i>Timothy Marshall</i> Partnering Council ACEC Representative – <i>Dave Moeller</i>	
9:25 – 10:05 am	CONCURRENT SESSION A	CONCURRENT SESSION B
	Iowa 58/Viking Road Interchange Design & Construction <i>Larry Wiele – AECOM and Nick Humpal – Iowa DOT</i>	I-80/First Avenue Diverging Diamond Interchange <i>Destry Schildmeier – HR Green, Scott Larson – City of Coralville, and Mark Harle – Iowa DOT</i>
10:10 – 10:50 am	Des Moines Integrated Corridor Management <i>Jon Markt – HDR and Neal Fobian – Iowa DOT</i>	IL Accelerated Bridge Construction Pilot Project <i>Chad Hodel – WHKS</i>
10:55 – 11:35 am	Southwest Arterial Project in Dubuque <i>Mark Durbahn – AECOM</i>	The I-229 Double Decker Bridge <i>Josh Castor and Dave Kocour – Hg Consult</i>
11:40 pm LUNCH		
12:35 – 1:15 pm	Iowa DOT Design Bureau Update <i>Mike Kennerly – Iowa DOT</i>	Iowa DOT Bridge & Structures Bureau Update <i>Mike Nop – Iowa DOT</i>
1:20 – 2:00 pm	Project Bluejay <i>Nathan Hardisty – Shive Hattery</i>	Highway 2 Overflow Bridge/Levee Relocation <i>Jeremey Vortherms – Iowa DOT</i> <i>Tony Bower – Stanley Consultants</i> <i>Will Sharp – HDR</i>
2:00 pm BREAK		
2:30 – 3:00 pm	Overview of BIM for Infrastructure Adoption in the US <i>Mike Kennerly – Iowa DOT</i>	
3:05 – 4:00 pm	Infrastructure Funding – Matt Reiffer – ACEC Forecast and Future Trends – Jacqui DiGiacinto – Iowa DOT	

2021 Iowa Transportation Conference

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Morning Educational Sessions

8:30 – 9:15 am

Opening Remarks from ACEC-Iowa/FHWA/Iowa Dot

Presenters: Iowa DOT Director – Scott Marler, FHWA - Iowa Division – Timothy Marshall, ACEC Iowa – Dave Moeller

CONCURRENT SESSION A

9:25 – 10:05 am

Iowa 58/ Viking Road Interchange Design & Construction

The intersection of Iowa 58 and Viking Road is the primary access to the Cedar Falls Industrial Park and the Viking Road retail center with several large Big Box stores. Multiple alternatives were considered, and ultimately, a single-point urban interchange design where Iowa 58 crossed under Viking Road was the final choice. The project included several design considerations, such as restricted right-of-way, maintaining through traffic and business access during construction, pre-tensioned prestressed concrete beam bridge, incorporating aesthetics into the design, public involvement, and utility coordination.

Presenters: Larry Wiele – AECOM and Nick Humpal – Iowa DOT

10:10 – 10:50 am

Des Moines Integrated Corridor Management

The Iowa Department of Transportation and regional stakeholders are pursuing Des Moines metropolitan area integrated corridor management (ICM) strategies and capacity improvements to cost-effectively and proactively manage traffic. Through the Des Moines ICM project, plans are being formed to cooperatively use ICM strategies throughout the area to actively manage traffic under all types of conditions to deliver improved levels of safety, mobility, reliability and quality of life for system users.

Presenters: Jon Markt – HDR and Neal Fobian – Iowa DOT

10:55 – 11:35 am

Southwest Arterial Project in Dubuque

The Southwest Arterial is a significant new alignment corridor connecting US 20 with US 61/151 in the southwest area of Dubuque. The project included three new interchanges, 12 bridges, 13 reinforced box culverts, over 4 miles of shared-use path grading, and 4.2 million cubic yards of earthwork. With 25 separate bid packages, the letting process was unique in that they were grouped and timed to enhance the bidding options for area contractors. This flexibility with the bid packages allowed the Project Management Team to obtain much more competitive bid prices.

Presenter: Mark Durbahn – AECOM

CONCURRENT SESSION B

9:25 – 10:05 am

I-80/ First Avenue Diverging Diamond Interchange

One of the most significant safety and congestion issues is the interchange's future number of left turns. The DDI design accommodates higher traffic volumes using a designated lane for trucks entering and exiting a nearby facility and creating an additional connector to a nearby commercial area. Along with a unique grade-separated pedestrian trail and trail bridge, other design features include adding parallel acceleration and deceleration lanes to I-80, a local intersection, bridge replacements, retaining walls, storm sewers, ditching/culverts, and traffic signals.

Presenters: Destry Schildmeier – HR Green, Scott Larson – City of Coralville, and Mark Harle – Iowa DOT

10:10 – 10:50 am

IL Accelerated Bridge Construction Pilot Project

A pilot bridge replacement project by the Illinois Department of Transportation (IDOT) was the first to implement accelerated bridge construction (ABC) techniques with a targeted road closure period of only 72 hours. Contract plans detailed a single span, wide flange beam replacement structure supported on semi-integral abutments. ABC concepts included constructing the superstructure on temporary bents adjacent to the existing bridge, followed by installing precast concrete abutments during the road closure period with a lateral slide procedure to move the superstructure into final alignment.

Presenter: Chad Hodel – WHKS

10:55 – 11:35 am

The I-229 Double Decker Bridge

MoDOT identified the need for a major rehabilitation of the I-229 Double Decker Bridge in downtown St. Joseph, Missouri. Before making a significant investment, input from the community is needed to answer the basic question - is the rehabilitation of this bridge a suitable investment, or, if not, how should that money be used? The project team is actively engaging various community stakeholders to determine the future of downtown St. Joe.

Presenters: Josh Castor and Dave Kocour – Hg Consult

Afternoon Educational Sessions

CONFERENCE
MATERIALS BY:



CONCURRENT SESSION A

CONCURRENT SESSION B

11:40 am LUNCH

12:35 – 1:15 pm

Iowa DOT Design Bureau Update

Presenter: Mike Kennerly – Iowa DOT

12:35 – 1:15 pm

Iowa DOT Bridge & Structures Bureau Update

Presenter: Mike Nop – Iowa DOT

1:20 – 2:00 pm

Project Bluejay

Project Bluejay in Bondurant was widely speculated and recently confirmed to be an Amazon Fulfillment Center; it is one of the largest development projects in the Des Moines Metro and the entire State of Iowa in 2020. The improvements included the installation of a new intersection on Highway 65 in Bondurant to access the adjacent development on the east side of Highway 65 and complete reconstruction and widening of roadways adjacent to the Project Bluejay site. The civil engineering was completed on the fastest schedule that anyone involved has ever achieved on a project of this scale.

Presenter: Nathan Hardisty – Shive Hattery

1:20 – 2:00 pm

Highway 2 Overflow Bridge/Levee Relocation

The extensive impacts from the 2019 Missouri River flooding highlighted the need to remove a levee pinch point to protect transportation infrastructure and reduce potentially impacted property owners from the upstream rise in water levels. The Iowa DOT developed a concept to construct dual 1,100-foot long overflow bridges and complete a levee relocation to eliminate this pinch point. The project was prioritized for design and construction completion by spring 2020, resulting in an extremely challenging schedule given the survey, permitting, design, and construction efforts needed in such a short time period.

Presenters: Jeremey Vortherms – Iowa DOT, Tony Bower – Stanley Consultants, and Will Sharp – HDR

2:00 pm BREAK

2:30 – 3:00 pm

Overview of BIM for Infrastructure Adoption in the US

An overview of the progress, challenges, and goals of ongoing efforts for BIM for infrastructure in the US Transportation Industry, including recent efforts by the AASHTO Joint Technical Committee on Engineering Standards and the upcoming BIM for Infrastructure Transportation Pooled Fund supported by eleven State Departments of Transportation.

Presenter: Mike Kennerly – Iowa DOT

3:05 – 4:00 pm

Infrastructure Funding

Presenter: Matt Reiffer – ACEC

Forecast and Future Trends

Presenter: Jacqui DiGiacinto – Iowa DOT