

Michigan
State Transportation Innovation Council
Meeting Minutes
February 22, 2021, 1:30 p.m. – 2:15 p.m.
Teams Virtual Meeting

Attendance

Present: Monica Ackerson (MRPA), Carol Aldrich (MDOT), Lisa Branch (MDOT), Ron Brenke (ACEC), Gregg Brunner (MDOT), Glenn Bukoski (MITA), Tim Colling (MTU-LTAP), Andrea Dewey (FHWA), Mary Hoffmeyer (MDOT), Russell Jorgenson (FHWA), Tony Kratofil (MDOT), Bob Lindbeck (Alger County), Laura Mester (MDOT), Chuck Mills (APAM), Doug Needham (MAA), Andy Pickard (FHWA), Steve Puuri (CRA of MI), Jean Ruestman (MDOT), Wayne Schoonover (GTCRC), Brett Stanton (APAM), Todd White (MDOT), Brad Wieferich (MDOT)

Absent: Paul Ajegba (MDOT), Ryan Buck (WATS) Ted Burch (FHWA), Tom Barrett (Senate), Eric Chappell (House of Representatives), Matt Chynoweth (MDOT), Daniel DeGraaf (MCA), Denise Donohue (CRA of MI), Wayne Harrall (Kent County), Jack O'Malley (House of Representatives), Christine Simon (Senate), Todd White (MDOT)

Guests: Catherine Cassar (Michael Baker International), Steven Gravlin (Michael Baker International), Tim Langholz (MI State Senate), Jayson Nault (Tetro Tech), Erron Peuse (MDOT), Steve Reschke (Tetra Tech), Ryan Snook (MDOT), Darin Welch (HNTB)

1) Welcome – Tony Kratofil and Russell Jorgenson

Tony opened the meeting with a welcome statement and discussed the rotation schedule for presentations. The State Transportation Innovation Council (STIC) Highlights meeting will occur next month. Russ applauded significant staff engagement with STIC.

2) STIC Highlights Presentations – Brad Wieferich

- Proposed innovation highlights meeting to be held on March 17, 2021 for two hours.
- Eleven ideas have been submitted so far.
- Five have initially been approved, but item six was approved during this meeting bringing the total to six:
 1. SELFLEVEL Castings
 2. Improving Geotechnical Site Characterization with Cone Penetration Testing (CPT)
 3. EMergency Integrated LanYard (EMILY) Inspection Device Named the American Society of Civil Engineers (ASCE) Gamechanger
 4. Soft Binder, Fiber-Reinforced MicroSurfacing

5. Driving Aviation Safety Improvements at Michigan's Airports via Aerial Data Collection
6. Cold Pourable Pavement Repair

- Each presentation will be approximately fifteen minutes and there will be five minutes for questions and answers.
- Another event to take place this Fall (September 15th is the current planned date) and more selections will be added.

3) The EMILY has been recognized by ASCE as a Gamechanger – Carol Aldrich

Carol presented MDOT's EMILY video to meeting attendees.

4) Road and Bridge 3D Models - How They Benefit the Public Involvement Management Application (PIMA) – Ron Brenke, ACEC

Ron announced that three firms are to present on 3D models and public involvement. They are Tetra Tech, Michael Baker International, and HNTB.

Steven Gravlin of Michael Baker International provided a brief overview of the following:

- Key players
- Benefits
- Future of model deliverables

Jayson Nault of Tetra Tech provided a brief overview of the following:

- Road project life cycle
- Project design – survey
- LiDAR applications
- Utilities overhead
- Utilities underground
- Automated machine grading

Catherine Cassar of Michael Baker International provided a brief overview of the following:

- Model data advantages
- More than models – pilots
- Beyond construction (virtual world and models):
 - Vetting
 - Simulation
 - Shareable
 - Presenting

Steve Reschke of Tetra Tech provided a brief overview of the following:

- 3D contractual deliverables (I-696 in Macomb County)
- 3D modeling in construction (2nd Avenue over I-94 in Detroit)
 - Bridge Information Modeling
 - Available video of smart model
- Hydraulic Modeling (M-139 over Buckhorn Creek in Berrien County)
- Utilities (M-59 in Macomb County) and the Advanced Bridge project (I-94 in Detroit)
- Advanced mapping utilizing AI augmented reality and machine learning
- Asset Classification utilizing AI augmented reality and machine learning

Darin Welch of HNTB provided a brief overview of the following:

- The value of visualization
- Public involvement
- Real spaces virtual reality
- Public involvement
- Management Application PIMA
- Public facing features
- Administrative features
- Managing the conversation with virtual meetings
- AASHTO knowledge session on February 24th with Kim Zimmer of MDOT discussing PIMA and inclusion

For any questions, please contact Ron Brenke at rbrenke@acecmi.org.

5) Open Discussion

- Glenn Bukoski advised that Doug Needham will be presenting at the August 23rd Presentation meeting in his place.
- It was suggested that we allow one hour for future STIC Presentation meetings.
- The STIC Highlights meeting is on March 17, 2021.
- The next STIC Business meeting is on March 26, 2021.
- Future meetings will be recorded so the presentations can be shared with those not in attendance to the meetings.