

Oklahoma State Transportation Innovation Council (STIC)

Meeting Minutes

Wednesday, September 6, 2017 at 1:30pm

Location: Oklahoma History Center
Oklahoma Historical Society Boardroom

See attendance sheet for attendees.

Dawn Sullivan and Basharat Siddiqi provided the welcome and opening remarks.

EDC-4 Innovations

Collaboration Hydraulics: Advancing to the Next Generation of Engineering (CHANGE)

Leslie Lewis reported that the CHANGE training will be held on December 5th at the Moore-Norman Technology Center.

Data-Driven Safety Analysis (DDSA)

David Glabas reported the Traffic/Safety Group held its 3rd meeting today. Members include ODOT (David Glabas, Alan Stevenson, Daryl Johnson, Mark Scott, and Lauren Ludwig) and guest members have included ACOG and INCOG. The group will be discussing formal addition of outside members at future meetings. Topics covered included goals in supporting EDC-4 Innovation, performance management criteria and internal ODOT goals for safety. New contracts with OU addressing data flow are forthcoming.

Pavement Preservation (When, Where, How)

Waseem Fazel reported that a roadmap and work plan have been developed. Chip seal is incorporated into the 3P program, and slurry seal and scrub seal are under consideration.

Karla Sisco noted that Pavement Preservation workshops will take place on Oct 3 (Muskogee) and Oct 4 (Perry). Mikie Hinkston is assisting with outreach for these, as well as Shannon Sheffert and Brad Mirth. Of note, the TTAP program will end on October 30 and information regarding the workshops will be on the LTAP website thereafter. Tribes and local governments have expressed interest in these workshops, also. Future workshops will be determined after the October dates.

Larry Patrick noted that Ashley Hawkins and Tracey Terrill will be attending a conference at MnRoad in representing the ODOT Pavement Preservation Group.

Angel Gonzalez noted Division 4 will do an in-house chip seal work at 3 locations and a scrub seal project through contract next spring. A thin overlay project will be done by contract.

Road Weather Management – Weather Savvy Roads

Alan Stephenson reported that tablets installed in 99 vehicles. Training has been started with field divisions. Another 100 tablets will be installed in vehicles.

Alan and Raina Wilson attended a Weather Savvy Roads conference in Minnesota that was very informative. Allowed them to see what other states are doing in this regard.

A reporting system that is being developed will aid in the reporting cycle during response events. Software is being developed to assist with email to reduce duplication of identification information and provide for automatic distribution. National Weather Service information is being pulled into this reporting data. This data will automatically update the OKRoads Maps. Secondary road information is also being updated through a partnership between ODOT, DPS and the counties, with the new software allowing for highway and secondary roads to be viewed independently. Fog and smoke conditions are being incorporated into the software. Time-lapse animation will be available as will data entry information in reviewing input standards for consistency. ODOT met with ESRI regarding off-the-shelf packages available addressing performance measures. Alan will work with the NWS in allowing access to this system.

Using Data to Improve Traffic Incident Management

Alan reported Raina Wilson is participating in 4-state mock drill regarding interoperability being held in Quapah.

TIMs training was held in Division 4, 45 attendees. Division 1 training is being scheduled.

ITS working with Traffic Division regarding secondary accidents. Dr. Hazem Refai is developing an algorithm that incorporates speed and queue data to identify the cause of the secondary accident. Special features have been added to the reporting system to allow for other input criteria to further define accident causes.

Mikie Hinkston reported that Division 8, in coordination with INCOG, has requested TIMS training and will be setup soon. He noted that 179 responders had been trained in August and acknowledged ODOT's participation and support of this effort. To date, over 6300 responders have had this training. News9 attended the last TIMS meeting and provided a positive report on the coalition.

Safe Transportation for Every Pedestrian (STEP)

Mikie Hinkston reported on the five courses scheduled to train on the STEP EDC initiative. Huy Nguyen noted that there is an FHWA consultant who is working with ODOT, the MPOs, the Highway Safety Office, and the FHWA Oklahoma Division to develop an action plan for non-motorized users. Karla Sisco noted that they will be promoting this with Tribes.

Ultra-High Performance Concrete Connections for PBES (UHPC-PBES)

Walt Peters and Teresa Stephens attended a UHPC lab demonstration at OU. Chemical additives allow a gravy-like consistency that is self-leveling. A meeting between OU and Division 3 is being held on Sept 8. Walt expressed concern that all involved are understanding of the labor intensive process needed for UHPC. Costs of this process are of concern for labor, materials and equipment needed in a field setting,

but the potential benefit of UHPC could offset this concern. The field project in Division 3 is being setup to address appropriate depth in addressing possible corrosion concerns. The timeline for this project will be addressed at the meeting, but Walt is hoping to get this done in the next few months. Equipment logistics may be the limiting factor. Dr. Floyd is attempting to develop an Oklahoma-based mix to help reduce material costs.

Previous EDC Initiatives

➤ **Smart Work Zones**

Alan Stephenson reported that as a results of Smart Work Zone (SWZ) training held in July, the ODOT Safety team met to address reviewing of ODOT specifications in regard to using various SWZ technologies in lieu of 3 separate special provisions. OTA is currently using a SWZ that Alan will incorporate into the website for contractor monitoring.

➤ **Standards for Concrete Precast Structures**

Caleb Austin reported that the consultant should have the first standard drawings finished in the next month or two. This will be a 2-phase project with Phase 1 covered by STIC Incentive funds and Phase 2 will branch out to other roadway structures. Waseem noted that local manufacturers are being involved to get their input to this effort.

➤ **Development of Standard Drawings for Low-Cost Bridge Options for Use by Local Public Agencies for Use on Low-Volume Roads**

Dawn Sullivan reported on this STIC incentive project that was funded with FFY2015 funds. This effort was delayed as ODOT realized that a scope of work needed to be added to this project. Dawn feels we will start seeing progress with this.

➤ **Geosynthetic Reinforced Bridges**

David Ooten noted that this effort received a lukewarm response on this innovation due to construction logistics but they are working on another approach – using larger blocks (standard forms). A new research project is pending using the modified design and local response will be of interest.

➤ **Mine Chat for High-Friction Surface Treatment**

Bryan Cooper reported that he's getting ready for another round of skid testing this month. Bryan, Waseem, David Glabas, Scott Seiter, and Darrin Saliba were invited to the DEQ to brief them on ODOT's progress with using Chat for high friction surface treatment.

Alan Stevenson reported they have a systemic curve project with 6-8 curves that are being targeted for high-friction surface treatment. David Glabas is working on a specification for HFST and will have Waseem review it. David wants to review the mine chat results more. Bryan Cooper said it was installed in 2015.

New Business

Basharat Siddiqi described the STIC Incentive process. Input is solicited from the STIC members and then he and Dawn decide which project or projects to send forward for incentive funds. It was requested that if others have STIC incentive ideas to submit those forms to David Ooten and Louisa Ward by Sept. 12th. Comments on the proposals will be requested by September 15th. David and Louisa will summarize input and provide input to Basharat and Dawn for final selection.

Champions of the proposals that we had received (Intelligent Compaction, Balanced Mix Design, and Marketing EDC Innovations in Oklahoma) spoke to the STIC to summarize their proposals.

Caleb Austin reported on the Diverging Diamond Interchange AID proposal for Elk City.

Dawn Sullivan thanked and recognized Melvina Heish's work at SHPO with ODOT over the years. Basharat Siddiqi also presented Melvine with a "Partners in Quality" award. He cited Melvina's work in revising the STIC charter and help with hosting the meetings.

The date for the next meeting will be determined and members notified.