

BIWEEKLY RESOURCE PAGES

(All Times Central, 1/21/2021)

Iowa LTAP & Guest Speaker Webinars

Top 20 in Rural Bridge Replacement and Repair Innovations. *Friday, 1/22 at 12:00 PM.* Guest speakers: Mike Steenhoek, Soy Transportation Coalition (STC), and Brian Keierleber, Buchanan County, Iowa. This webinar will focus on the recently released report “The Top 20 Innovations for Rural Bridge Replacement and Repair.” In order to select the featured innovative concepts, the STC assembled a group of 13 bridge engineers and experts from the 13 states that comprise the organization. The goal was to highlight a relatable number of innovative concepts that (1) will provide initial or life-cycle cost savings, (2) have been validated by a credible engineering entity or organization, and (3) is accessible in a large section of rural America. For more information and to register, please go to <https://iowaltap.iastate.edu/events/top-20-rural-bridge-innovations/>

Safety Countermeasures for Unpaved and Gravel Roads. *Friday, 1/29 at 12:00 PM.* Iowa LTAP speaker: David Veneziano, Safety Circuit Rider. This webinar will discuss safety strategies and countermeasures used to reduce roadway departure crashes on unpaved and gravel roads. Many of the strategies discussed will be low cost and can be implemented in a short time frame. In other cases, the strategies covered can serve as a reminder of all that can be considered when undertaking other projects (reconstruction, repaving, etc.) in the future. For more information and to register, please go to <https://iowaltap.iastate.edu/events/unpaved-roads-countermeasures/>

Capabilities and Advantages of Steel Buried Bridges. *Friday, 2/5 at 12:00 PM.* Guest speaker: Joel Hahm, Contech Engineered Solutions, LLC. Steel buried bridges are becoming a common alternative to traditional bridges, box culverts, and precast concrete structures for many short to medium span bridge applications. This presentation will provide an introduction to capabilities and advantages of buried bridges and include several case studies illustrating how they have been used nationwide. For more information and to register, please go to <https://iowaltap.iastate.edu/events/steel-buried-bridges/>

SWiZAPP – Smart Work Zone Activity App. *Friday, 2/12 at 12:00 PM.* Guest speaker: Yaw Adu-Gyamfi, University of Missouri. SWiZAPP is a mobile application developed for accurate and timely communication of real-time work-zone activities to departments of transportation staff, traffic management centers, work-zone contractors, and the traveling public. The app supports automatic geolocation and mapping via on-board GPS sensors. For more information and to register, please go to <https://iowaltap.iastate.edu/events/swizapp-work-zone-app/>

Planning & Design Accommodation for Oversize & Overweight Freight in Work Zones (with WI LTAP). *Friday, 2/19 at 12:00 PM.* Guest speaker: Bill Bremer, University of Wisconsin. Oversize and overweight (OS/OW) freight movement is among the fastest growing segments in the truck freight industry. Work zone transportation management planning (TMP) is appropriate for considering how OS/OW freight should be dealt with to ensure state economies are not severely impacted. Suggestions and strategies for dealing with OS/OW in work zones will be offered. For more information and to register, please go to <https://iowaltap.iastate.edu/events/freight-work-zone-accommodation/>

Composite Press-Brake Formed Modular Steel Tub Girders for County Bridges: Development, Experimental Validation, and Case Studies. *Friday, 2/26 at 12:00 PM.* Guest speakers: Karl Barth, West Virginia University, and Guy Nelson, Valmont Industries, Inc. This presentation is focused on the development of modular shallow trapezoidal boxes fabricated from cold-bent structural steel plate using standard mill plate widths and thicknesses. Presented is the methodology used for the design of this system along with experimental

validation of the modular composite girder's flexural capacity and recently developed standards. A case study will also be presented to showcase the use of this system within a local county. For more information and to register, please go to <https://iowaltap.iastate.edu/events/steel-tub-girders/>

Iowa Work Zone Safety Workshops

Iowa Work Zone Safety Workshops. *Monday, 2/22 to Monday, 3/1 at 8:00 AM. General Session on 2/22 followed by Audience Specific Sessions on 2/23, 2/24, 2/25, and 3/1.* During the week of February 22–25 and Monday, March 1, work zone traffic control and safety training will be offered virtually so that workers across the state can participate conveniently. The workshop will cover current revisions in the 2009 Manual on Uniform Traffic Control Devices (MUTCD), particularly Part 6. The workshops consist of a general session for all participants, plus breakout sessions that will be scheduled throughout the week tailored to specific categories of work zone activities: city, county, utility, Iowa DOT construction and contractors, and Iowa DOT maintenance. The cost for this training is \$25/person. For more information and to register, please go to <https://iowaltap.iastate.edu/events/2021-iowa-work-zone-safety-workshops-virtual/>

Workshops & Webinars by Others

Leveraging Signal Performance Data to Improve Traffic Signal Operations (TN LTAP). *Thursday, 1/28 at 12:30 PM.* Join us for this free webinar focusing on the application of traffic signal performance measures to improve operations in the city of Gulf Shores, AL. A brief introduction to Automated Traffic Signal Performance Measures (ATSPMs) will be followed by a discussion on agency-specific operational objectives, necessary upgrades to traffic signal system infrastructure, data collection and analysis, signal timing improvements, and an understanding of the workforce necessary to operate and maintain the system. For more information and to register, please go to <http://ttap.utk.edu/training/webinar.php?id=726&loc=1>

Engineering and Traffic Studies (NJ LTAP). *Wednesday and Thursday, 2/10 and 2/11 at 4:00 PM.* This course will review basic concepts in probability and statistics and their application in designing traffic control features and regulating traffic. The course will examine methodologies for conducting speed studies, evaluating intersection controls, safety analyses, and quantifying the effectiveness of safety treatments. Procedures and required traffic studies to legally establish, revise, and remove traffic restrictions in New Jersey will also be presented. Participants also complete exercises in which they conduct common engineering and traffic studies using actual data. For more information and to register, please go to <https://cait.rutgers.edu/event/njltap-engineering-and-traffic-studies/>

Advanced Project Bundling: Overcoming Hurdles. *Wednesday, 2/17 at 1:00 PM.* To access the webinar, please go to https://www.fhwa.dot.gov/ipd/alternative_project_delivery/defined/bundled_facilities/webinar_series.aspx