

BIWEEKLY RESOURCE PAGES

(All Times Central, 2/02/2021)

Iowa LTAP & Guest Speaker Webinars

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/>

2020 “Build a Better Mousetrap” Innovations (State and National). *Friday, 3/5 at 12:00 PM.* Speaker: Keith Knapp, Iowa LTAP, with 2020 Iowa competition winners (Page County, City of Des Moines, and Marion County). The Build a Better Mousetrap highlights innovative solutions to everyday challenges that local and tribal transportation professionals encounter. This presentation is focused on information about the local agency innovations that won the 2020 Build a Better Mousetrap (BABM) competition in Iowa and nationally. Those that were given an honorable mention nationally may also be presented. National results for the BABM competition can be found at <https://iowaltap.iastate.edu/build-a-better-mousetrap-competition/>. For more information and to register for this webinar, please go to <https://iowaltap.iastate.edu/events/2020-babm-webinar/>

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

Controlling Potential Drainage Problems (NY LTAP). *Tuesday, 2/9 at 8:00 AM.* The key to good roads is drainage. The key to good drainage is controlling potential drainage problems before they become serious. In this session, David Orr (NY LTAP Director) will cover the most common drainage problems on highways and offer some simple solutions. For more information and to register, please go to https://cornell.zoom.us/webinar/register/WN_SHAQz8m-R32haixaLHSZ6g

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/>

Application Rates for Snow and Ice Chemicals (NY LTAP). *Tuesday, 2/16 at 8:00 AM.* During the winter, we use salt and other chemicals to help with snow and ice control operations. We need to use the correct amount of chemicals to improve safety without creating an environmental hazard. During this webinar, Jim Crow (NY LTAP Circuit Rider) will provide basic information on setting application rates for your snow and ice control chemicals. For more information and to register, please go to https://cornell.zoom.us/webinar/register/WN_D5XJfoF9S3aeWOKJX8AZ7w.

Advanced Project Bundling: Overcoming Hurdles. *Wednesday, 2/17 at 1:00 PM.* To access the webinar, please go to <https://connectdot.connectsolutions.com/sr500apb/>

Common Sense Solutions for Intersection Problems (NJ LTAP). *Tuesday, 3/2 through Thursday, 3/4 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. This course provides participants with (1) a basic understanding of intersection safety issues, (2) "how to" information for common safety tasks and low-cost safety improvements that do not require an engineered design, and (3) background information on safety tasks that do not require an engineer. This workshop also outlines areas where non-engineers can assist traffic engineers in the safety process, and help them to understand when an engineer needs to be consulted to make a safety-related change to an intersection. This will be a 3-day (2 hours each session) program. Participants are welcome to join any of the three parts; however, a certificate of attendance will only be issued to those who attend the full session on all days. For more information and to register, please go to <https://cait.rutgers.edu/event/njltap-common-sense-solutions-for-intersection-problems/>