Expo success stories

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Solving problems, evaluating standard practices, learning new techniques, sharing information, comparing new equipment—these are just a few of the benefits cited by the people who attend Iowa’s Maintenance Training Expo.

Since 1997, Iowa has offered two Expos each year, one focusing on summer and one on winter roadway maintenance. This year the two events will be combined into one information-packed, two-day Expo for maintenance staff and supervisors.

The Expo includes classroom training sessions, vendor displays, and product demonstrations. In addition, a snowplow rodeo and motor grader competition are held the day after the Expo. This mix of activities has been the key to the Expo’s success. At least that’s what we are hearing from people who attend.

From Bettendorf, we hear from Stan Erickson, manager of the city’s streets, sewers, and signs. Bettendorf usually conducts its own snow plow rodeo competition, and the top four competitors come to the Expo and compete against other agencies in the Expo-related rodeo.

According to Stan, there are two benefits to the Expos: well-trained employees, and improved practices. The event provides an excellent review of standard maintenance information and techniques, and provides newer... continued on page 4

Expo attendees have hands-on access to vendor displays.
Work zone safety products

Check out the following products that may provide your agency with effective, relatively low cost, and convenient means for improving safety in work zones. These products are designed to give workers advance warning of and protection from inattentive drivers or errant vehicles, help motorists navigate confusing work zones, and alert drivers of changing traffic conditions.

Some of these products comply with National Cooperative Highway Research Program (NCHRP) Report 350 guidelines for crashworthiness, although you will need to check specific manufacturers. See “The importance of NCHRP Report 350” (page 6) for a brief reminder about how these guidelines affect you.

The Midwest Smart Work Zone Deployment Initiative (MwSWZDI) is investigating 20 different traffic control and management strategies and devices, some of which are featured here. For more information on MwSWZDI, see “Midwest states study work zone safety products” (page 5).

Temporary rumble strips

Temporary rumble strips, which can be orange in color, alert alert motorists to changing traffic conditions, such as the need to slow down for an upcoming work zone.

Developed through the Strategic Highway Research Program (SHRP), temporary rumble strips are cut to size and attached to the roadway with adhesive backing about 100 meters before the work zone begins. A limited crew can install and remove the strips quickly, and MwSWZDI testing shows that the rumble strips remain in good condition throughout the work period. Temporary rumble strips may be best suited for low-speed roads that carry few heavy trucks. The strips may also work best in an urban setting.

Plastic signs and sign supports

Cloth roll-up signs are becoming a common sight in work zones because of the need for portability and safety; however, windy conditions can adversely affect their visibility with some designs. Although stability may always be problematic, new plastic signs perform better in the wind while providing safer conditions for workers and motorists.

During crash testing, plastic signs and sign supports caused only minor windshield damage, no occupant compartment intrusion or deformation, and no dangerous debris, making these devices less hazardous in crashes than traditional road signs. In addition, the signs are easily portable.

Lighted raised pavement markers

Lighted raised pavement markers (RPMs) provide greater visibility in work zones than traditional temporary pavement markings such as pavement marking tape. Lighted RPMs are especially helpful in delineating crossovers in work zones, significantly reducing vehicle speeds, and increasing the number of passenger cars that stay in the correct lane.

Ground-mounted and illuminated, RPMs can be operated in flashing, racing, or steady-burn modes. MwSWZDI research showed that installation and removal of RPMs is hassle free; however, extensive cabling required to power the lights could be problematic in some areas. Solar-powered units are also available and may solve this problem.

Direction indicator barricades

Direction indicator barricades direct traffic more clearly through a crossover. Arrows and lights make these barricades more visible than traditional drums, making needed lane changes more quickly apparent to motorists. The barricades are designed to collapse and lay flat when struck by a vehicle and carry few heavy trucks. The strips may also work best in an urban setting.

Employees in Stan’s shop particularly enjoy seeing new equipment at the vendor displays. Product and process demonstrations are also valuable. Demonstrations like the one of the Missouri Department of Transportation’s scrub seal operation give Expo participants an opportunity to see the products and processes that have been developed in other parts of the country. Ron Johnston summed up his feelings about the Expo: “You’re on the right track. Keep it up.”