Alcohol-Impaired Driving Interventions and Research

Plus:
U.S. DOT’s Disadvantaged Business Enterprise Program
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3 NASEM STUDY
Eliminating Alcohol-Impaired Driving Fatalities
Amy Geller and Yamrot Negussie
To combat the deadliest, costliest danger on U.S. roads—alcohol-impaired driving—a study committee of the Health and Medicine Division of the National Academies of Sciences, Engineering, and Medicine identified evidence-based interventions to reduce fatalities caused by alcohol-impaired driving in the United States. The study also examined alcohol-impaired driving interventions—both potential and in use—and their promise and effectiveness.

11 U.S. DOT's Disadvantaged Business Enterprise Program: Key Components and Issues
Colette Holt and Joanne Lubart
The United States Department of Transportation’s (DOT’s) Disadvantaged Business Enterprise (DBE) program has endured for nearly 40 years. The national program helps to correct a historic imbalance in opportunities for minority- and women-owned small businesses in DOT-assisted contracting and applies to recipients of U.S. DOT transportation funds. This article explores the DBE program’s background and goals as well as related legal and programmatic complexities.

18 Advancing Core Values: TRB's Inclusion and Diversity Initiative
Karen Febey
The Transportation Research Board’s (TRB’s) support of inclusion and diversity has focused on increasing diversity in the selection of committees and project panels. To broaden and fortify this effort, Executive Director Neil Pedersen has sought to integrate diversity and inclusion into TRB’s organizational culture. This article outlines TRB’s work formalizing and building on best practices, developing a task force, and identifying other actions by staff and volunteers to ensure that TRB represents as many perspectives and opinions as possible.

22 TRB SPECIAL REPORT
Designing Safety Regulations for High-Hazard Industries
Thomas R. Menzies, Jr.
Presented in TRB Special Report 324, Designing Safety Regulations for High-Hazard Industries, is a framework for the design of safety regulations for industries engaged in hazardous activities. Different regulatory designs offer different advantages depending on how they are applied; to make smart decisions, regulators must have a clear conceptual framework for design options and under which circumstances a given design would be most effective.

24 NCHRP RESEARCH REPORTS 882 & 886
Research Offers Insights on Highway Noise
Ann M. Hartell, Ken Kaliski, Darlene Reiter, Bill Bowlby, Roger Wayson, and Judy Rochat
Traffic noise from highways can affect human health and quality of life negatively; since 1970 federal legislation has required state DOTs to anticipate and mitigate noise effects of proposed new highways and expansion projects. State DOTs continue to hear complaints about traffic noise, however. Two recent National Cooperative Highway Research Program research reports offer new insights for noise specialists, project designers, and policy makers.
features articles on innovative and timely research and development activities in all modes of transportation. Brief news items of interest to the transportation community are also included, along with profiles of transportation professionals, meeting announcements, summaries of new publications, and news of Transportation Research Board activities.

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Completed bat gate at an abandoned railway tunnel in Harrison County, Ohio.

ALSO IN THIS ISSUE:

29 Preparing for Shared Mobility and Automated Vehicles: Symposium and TRB Forum Chart a Course for Research
Katherine A. Kortum
To facilitate needed evidence-based research on automated vehicles, shared mobility services, and other transformational transportation technologies—and on how and when the technologies can meet long-term goals—TRB launched the Forum on Preparing for Automated Vehicles and Shared Mobility in early 2018. This article reviews the Forum’s activities to date and reports on the 2018 Automated Vehicle Symposium in San Francisco in July.

34 Bilateral Automation Research: 6th EU–U.S. Transportation Research Symposium
Katherine A. Kortum
Since 2013, TRB, the U.S. DOT Office of the Secretary of Transportation—Research, and the European Commission have joined forces for bilateral transportation research: sharing experiences, identifying potential next steps and research needs, and uncovering opportunities for joint efforts. In June, European and U.S. researchers convened in Brussels, Belgium, to examine the impacts of connected and automated vehicles on the workforce, economy, community land use, and transportation equity.

37 RESEARCH PAYS OFF
Streamlining Survey in Reno’s Spaghetti Bowl
Emily Pettis, Sebastian Renfield, and Alexis Thomas

The 2018 state partnership visits of state transportation agencies by TRB senior program officers, the topic of a feature article in the January–February 2019 issue of TR News, showcase emerging trends, applied research, research needs, and innovative solutions to challenges across all transportation modes and functions. Other articles explore obesity solutions through investments in the built environment, the Ohio Department of Transportation’s work protecting historic railroad tunnels as artificial bat hibernacula, and a transportation test bed corridor in Atlanta, Georgia.