A Worldwide Car Culture
Can It Be Sustainable?

Plus
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* Membership as of December 2008.
3 Two Billion Cars: Transforming a Culture
Daniel Sperling and Deborah Gordon
While providing untold benefits, today's one billion motorized vehicles are contributing to worldwide problems with energy resources, climate change, and congestion. The number of vehicles is expected to reach two billion by 2020. In tracing out the complexity of problems and solutions, the authors call on the transportation community to summon its ingenuity to improve vehicles and fuels, introduce new mobility, and develop ways to alter travel behaviors.

10 Context-Sensitive and Sustainable Solutions for Transportation: Oregon’s Bridge Delivery Program Model
Thomas Lauer
Oregon's 10-year State Bridge Delivery Program is garnering awards for successful innovations to stimulate the state economy and develop a skilled workforce; employ cost-effective practices; maintain freight and traffic mobility; build with sensitivity to the needs of communities and the environment; and capitalize on funding opportunities.

18 Creating a Culture of Traffic Safety: Learning from Four States with Improved Safety Records
Betty J. Mercer
Although the rate of traffic-related fatalities is increasing nationwide, some states are achieving continual improvements in highway safety. Case studies show that these states share a key characteristic—the development of a statewide traffic safety culture. The case studies yield practical pointers for other states seeking to make similar strides in reducing fatalities and serious injuries on the roadways.

21 NEW TRB SPECIAL REPORT
The Role of Transit in Emergency Evacuation
Nancy Humphrey
Transit can play a vital role in an emergency evacuation. A concerted local, state, and federal effort is needed to realize this potential, however, according to a new study requested by Congress. Focusing on transit systems in the nation's 38 largest urbanized areas, the report explores the roles that transit systems can play in accommodating the evacuation, egress, and ingress of people to or from critical locations during an evacuation of a central business district.

The Transportation Research Board’s 2008 Annual Report is included in this issue as a special insert between pages 18 and 19.

COVER: With car ownership and use expanding worldwide, research and innovation are needed to find sustainable ways to address the environmental and geopolitical impacts of motor vehicles.
Research Pays Off
Fighting Fatigue in Steel Bridges: Kansas Bridge Design Engineers Guide
Research Solutions into Practice
John Patrick Jones, Caroline Bennett, Adolfo Matamoros, Stan Rolfe, and Kim Roddis

Calendar

Profiles
Aviation consultant James A. Wilding and traffic operations and management expert Robert B. (Tip) Franklin

News Briefs

TRB Highlights
Cooperative Research Programs News, 31

Bookshelf

Coming Next Issue
An account of foundational developments for research in the capacity focus area of the Strategic Highway Research Program 2—establishing a collaborative decision-making framework—is the subject of a feature article in the January–February TR News. The issue also contains an overview of a policy study on the priorities, coordination, and quality of safety research in highway infrastructure and operations; summaries of reports about research needs and innovative applications at state departments of transportation—findings from the field visits by TRB Technical Activities Division senior staff; and more.

The January–February Research Pays Off column describes improved lighting for nighttime construction, as applied by the Illinois Department of Transportation.