TRANSPORTATION ENGINEERING IN A NEW ERA

Issue Papers for the ITE 1992 International Conference, Monterey, California
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## The Transportation Profession in a Changing Environment

What are the trends and issues that will affect mobility in the coming years? How will these affect the role and responsibilities of the transportation professional? Is the transportation profession prepared to take on these new roles and responsibilities?

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## The New Era—It’s the Law!

The Intermodal Surface Transportation Efficiency Act of 1991 and the Clean Air Act Amendments of 1990 form the legislative foundation of the issues that will affect transportation for many years to come. What is in these new laws and what will they mean to the transportation professional?

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## Transportation Planning in a New Era

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Managing Transportation Demand

Transportation Demand Management (TDM) is receiving much attention as a way to achieve clean air goals and reduce congestion. What strategies have been implemented? How effective have they been? What is the potential of future efforts to manage or reduce transportation demand?

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Congestion Pricing

Congestion pricing is being viewed as a potentially valuable—and largely untried—strategy for reducing automobile use and vehicle emissions. The new legislation gives a strong impetus to implementation. What is the history and rationale behind this concept? What is its real potential, and what are the barriers to successful implementation?
Intelligent Vehicle-Highway Systems

The application of advanced technologies—intelligent vehicle-highway systems (IVHS)—has the potential to significantly improve the mobility and safety of our transportation system. What is already being done, and what does the future hold? How great is the IVHS potential, and what are the risks? What are the challenges—technical and institutional—to success?

Intelligent Vehicle Highway Systems: A Public/Private Partnership
Federal Highway Administration

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Integrated Traffic Control Centre for Metropolitan Toronto
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New Technology for Today's Signal Systems
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Safety Management Systems

The 1991 surface transportation act requires that safety management systems be developed. What is a safety management system? What should a good system include? What are the experiences to date, and what can be done better?

Safety Management Systems
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What Makes a Good Safety Management System?
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