

A stylized graphic featuring a central orange circle representing a sun or a focal point. From this circle, a wide orange cone extends downwards, bisected by a thin orange line. The background is composed of large, abstract shapes in black, white, and grey, suggesting a landscape with a road leading to a city skyline. A blue banner at the top left contains the text 'Education's crossroads 2000s'.

CROSSROADS 2000

PROCEEDINGS

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Crossroads 2000 Proceedings

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PREFACE

Crossroads 2000 was the second biennial transportation research conference cosponsored by the Center for Transportation Research and Education (CTRE) at Iowa State University and the Iowa Department of Transportation. The conference and proceedings were developed under a collaborative arrangement between the two organizations formalized in a Memorandum of Agreement in 1992 and expanded in 1996 to include the University of Iowa and the University of Northern Iowa. The day-and-a-half conference provided an opportunity for Iowans and other Midwesterners to focus on regional and national transportation research and technology transfer issues through presentations of the caliber generally found at national events. The conference allowed transportation professionals from the region to attend a content-rich event without having to travel outside the region.

This proceedings is the set of papers presented at the conference. Twenty-five categories of papers were presented in five concurrent sessions. Reflecting the increasingly critical role of intelligent transportation systems (ITS) in maintaining and enhancing transportation safety and efficiency, one category in each concurrent session addressed an area of ITS. However, papers were included from all areas of interest, ranging from transportation infrastructure design to transportation policy. Together the 76 papers presented at the conference showcase the variety of research that is shaping the next era of transportation.

Tom Maze, Director
Center for Transportation Research and Education
Iowa State University
Ames, Iowa

The following presentations were not available for inclusion in the proceedings:

“The Kansas City International Trade Processing Center” Ronald Achelpohl, Mid-America Regional Council

“The Role of Anti-Icing and Prewetting at the Iowa DOT (Moving away from Theory)” Dennis Burkheimer, Iowa DOT

“Advanced Public Transit Systems” Craig Cole, Rockwell

“Travel Model Improvement Program Current Status” Michael Culp, FHWA

“Using a Desktop GIS and Travel Demand Software to Develop Traffic Models for Small Cities” Jennifer Kragt, Iowa Northland Regional Council of Governments

“Public Perceptions of the Midwest’s Pavements” David Kuemmel, Marquette University

“Statewide Freight Modeling Using the 1993 Commodity Flow Survey” Mike Lipsman, Iowa DOT

“What Comes after the ISTEA Management Systems? Asset Management” Tom Maze, CTRE, Iowa State University

“The Montana Experience in Statewide ITS Planning” Pat McGowen, Western Transportation Institute

“Electronic Commerce in Transportation: A Carrier's Response to Global Shipper Needs” Gary Nichols, Contract Freighters, Inc.

“Rural Minnesota: Recognizing the Benefits of a Statewide Strategic Plan” Marthand Nookala, Minnesota DOT

“Intelligent Transportation: Setting Statewide Strategic Direction” Vincent Pearce, Booz-Allen & Hamilton

“Encouraging Public Access to GIS Data” Ann Peton, Iowa Office of Information Technologies Services

“Improving Employment Data for Transportation Planning” David Plazak, CTRE, Iowa State University

“Multimodal Statewide Freight Transportation Planning” David Preissig, Iowa State University

“Traffic Flow and Safety Implications of Access Management on Arterial Roadways” Howard Preston, BRW, Inc.

“Traffic Safety and Operational Effects of Protected-Permitted Left Turn Traffic Signal Phasing” Howard Preston, BRW, Inc.

“Roadsurfing the Web in ITS” Matthew Tondl, HDR Engineering

“Selecting Roadside Safety Hardware” Bill Wendling, HCR

The following acronyms may be used without definition in this proceedings:

AASHTO	American Association of State Highway and Transportation Officials
ASCE	American Society of Civil Engineers
ASME	American Society of Mechanical Engineers
ASTM	American Society of Testing and Materials
FHWA	Federal Highway Administration
NCHRP	National Cooperative Highway Research Program
NHTSA	National Highway Traffic Safety Administration
SHRP	Strategic Highway Research Program
TRB	Transportation Research Board
USDOT	United States Department of Transportation