

**Contemporary Issues in Wisconsin Transportation
CEE 679/Summer Forum 500
Reading List**

All of the materials listed below are available in electronic format on the College of Engineering CEE 679 Contemporary Issues in Wisconsin Transportation homepage: <http://courses.engr.wisc.edu/ecow/get/cee/679/wittwer/>. **Those listed in bold type are required reading for all students enrolled for credit.**

Session One: June 18

1. **Critical Issues in Transportation: 2002.** This publication of the Transportation Research Board Executive Committee summarizes the many challenges facing transportation in the US in 2002.
2. Saving Time, Saving Money: The Economics of Unclogging America's Bottlenecks. This publication of the American Highway User's Alliance attempts to quantify the cost of congestion in the US.
3. TRB Circular E-C026: Personal Travel: the Long and Short of It. This Transportation Research Board publication summarizes a conference that was held dealing with many topics related to personal travel in the US.
4. Freight in the Upper Midwest. Written for the First Upper Midwest Workshop on Freight, this paper summarizes the growth of freight transportation in the region and some issue related to meeting that growth.

Session Two: June 20

1. **TRB Circular E-C105: Statewide Transportation Planning.** The circular summarizes a conference at which planning professionals from across the nation discussed the challenges facing transportation planning. (Read the Introduction and Executive Summary.)
2. **Transportation/Land Use: Transit's Impact on Land Use.** This article, which appeared in the *Journal of Urban Planning and Development*, outlines many of the issues that influence land use. While its focus is on transit, many of its conclusions might also be applied to other modes.
3. Dane County Land Use and Transportation Plan (Vision 2020), Chapters One and Two. These chapters outline the process that was used in Dane County to develop its land use and transportation plan.
4. Development of a Transportation and Land Use Education Program for Iowa (A Bibliography). This publication of the Center for Transportation Research and Education at Iowa State University is an excellent reference for further readings on the topic of transportation and land use.

Session Three: June 25

1. **TRB Circular E-C028: National Conference On Transportation and Environment, Proceedings.** This conference, which was held in 2000, addressed a wide range of environmental issues. (Read the proceedings of the conference proper, through page 36.)
2. Global Warming. This article, which appeared in the *Volpe Journal*, outlines the problem of greenhouse gases and the role of transportation in producing those gases.
3. Atlanta Conforms to Clean Air Requirements. This article appears in *Public Roads*. It outlines the issues that the Atlanta faced in meeting transportation conformity under the rules of the Clean Air Act.
4. Surviving the Turbulence: the Transportation-Air Quality Arena, 1999-2000. Another *Public Roads* article, this chronicles the changes in the rules for transportation and air quality that happened in 1999-2000 and the impact on transportation planning.
5. Aviation and the Environment. This is a Government Accounting Office publication that summarizes the environmental concerns of the largest airports in the country.
6. Advanced Technology and Alternative Fuel Vehicles. Produced by the US Department of Energy, this publication summarizes some of the most recent developments in alternative fuel and technology vehicles.
7. TRB Circular E-C026: Personal Travel: the Long and Short of It: Older Vehicles and Air Pollution. This paper, written for the conference on personal travel, reviews the impact of older vehicles on air pollution.
8. Financing and Implementing Sustainable Transportation: A Local Planning Approach. This publication of the Texas Transportation Institute reviews several case studies of efforts to implement sustainable transportation after outlining some of the issues of defining that topic.
9. Transportation and the Environment: The Untold Story. This article, which appeared in *Better Roads*, reports the results of a study supported by the American Road and Transportation Builders Association that argues that the environmental impacts of autos have been significantly reduced over recent years, even as travel has increased.

Session Four: June 27

1. **Motor Vehicle Crashes as a Leading Cause of Death in the US.** This National Highway Traffic Safety Institute (NHTSA) publication discusses highway crash deaths in 1997.

2. **Driving While Aging Gracefully.** Another NHTSA publication, this provides advice on how to deal with the impact of the aging process on driving.
3. **Transportation and Our Aging Population.** This article appeared in the *Volpe Journal* and provides information on the impact of an aging population on transportation.
4. **Driver Characteristics at Various BACs.** This study reviews the impact of blood-alcohol concentrations on cognitive and reactive abilities of the driver.
5. **Relative Risk of Involvement in Fatal Crashes by BAC, Gender and Age.** Another NHTSA publication compares the risk of involvement in fatal crashes based on blood alcohol levels, gender, and age.
6. **Traffic Safety Facts 1999.** NHTSA's report of 1999 provides very detailed information on highway safety for that year.

Session Five: July 2

1. **Transportation Fact Sheets.** These thirteen fact sheets, prepared by the Wisconsin Department of Transportation, address many key issues related to transportation finance in the state.
2. **Transportation Cornerstone Florida.** A study commissioned by the Florida Chamber of Commerce documents the importance of transportation investments to the state's economy. (Read the summary.)
3. **The Economic Impact of Highway Investments in Maryland.** This study commissioned by the Maryland Highway Administration outlines the direct and indirect impacts of highway investments on that state's economy.
4. **Transportation and the Economy: National and State Perspectives, 1998.** This publication of the American Association of State Highway and Transportation Officials overviews the ties of transportation and the economy.

Session Six: July 9

1. **The Transportation System's Role In Moving Welfare Recipients to Work.** Another *Volpe Journal* article, this overviews the importance of transit systems in meeting welfare reform goals.
2. **Dane County Commuter Rail Feasibility Study.** This study, commissioned by the Wisconsin Department of Transportation, Madison and Dane County, outlines the benefits and costs of a proposed commuter rail system in the County. (Read the Executive Summary.)
3. **Wisconsin Transit System Performance Report; Executive Summary.** This publication of the Wisconsin DOT compares Wisconsin transit systems to peer systems, nationally.

4. **Sun Prairie Shared-Ride Taxi.** This *Capital Times* article gives a good overview of a shared-ride taxi service, one of the most widely-used transit options in Wisconsin.
5. **Kenosha, Racine, Milwaukee Commuter Trains.** This publication of TransitNow, overviews the benefits of a proposed extension of the Metra commuter rail service from the Chicago area to Milwaukee. It uses the results of a feasibility study of that service.
6. **TCRP Report 35.** This report outlines some of the issues and methods that could be used to assess the economic benefits of transit systems. It is a handbook for practitioners.

Session Seven: July 11

1. **Pedestrian Facilities User Guide.** This Federal Highways publication outlines many of the considerations that should be addressed in providing safe pedestrian and bicycle mobility. (Read the Introduction, Chapters One and Two.)
2. **National Strategies for Advancing Bicycle Safety.** The product of several national transportation organizations, this publication overviews several basic strategies to improve bicycle safety. (Read the Summary.)
3. **Oregon Bicycle and Safety Plan.** Oregon's bicycle and pedestrian plan contains a good outline of the potential benefits of non-motorized transportation. (Read "The Importance of Bicycling and Walking.")
4. **Wisconsin Bicycle Planning Guidance:** This Wisconsin Department of Transportation document was written as guidance to local planning organizations that have a responsibility for bicycle planning.
5. **Bicycle Planning Dilemmas.** Another Volpe document, this outlines many of the problems of developing effective bicycle plans—and of biking.

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