



### **2008 Michigan Transportation Asset Management Conference DVD - Disk 1 (MGMT-190)**

Presentations from the conference in Lansing, held on April 3, 2008 are available on DVD.

- 1) Council Activities and Legislative Update: Carmine Palombo
- 2) Investment Reporting: Ron Vibbert
- 3) Data Collection and Reporting: A Rural County's Experience: Lance Malburg
- 4) Asset Management: How Planning Agencies Can Make it Easier For You: Ed Hug & Anamika Laad  
Regional Transportation Planner – ECOMPDR
- 5) Using Asset Management Data to Communicate Local Road Needs to Decision-makers: Bob Slattery  
Michigan LTAP – September 2008.

### **2008 Michigan Transportation Asset Management Conference DVD - Disk 2 (MGMT-191)**

Presentations from the conference in Lansing, held on April 3, 2008 are available on DVD.

DVD 2 of 2 includes the following presentations:

- 1) Bill McEntee - Moderator
- 2) Nobody Ever Asks to Have Their Street Crack Sealed – Making the Switch from Worst First to the Right Mix of Fixes: Chad Gamble, Director of Public Services – City of Lansing
- 3) In the Same Boat and Rowing in the Same Direction - Building Consensus and Support for Asset Management: Tim O'Rourke, Manager - Roscommon County Road Commission
- 4) Training Opportunities: Terry McNinch, Director – LTAP
- 5) Training Opportunities: John O'Doherty, Education and Training Specialist – NCPP
- 6) Training Opportunities: Mark Becker, Performance Consultant – MDOT

### **Application of Geophysical Methods to Highway Related Problems (MISC-168)**

Provides highway engineers with a basic knowledge of geophysics and nondestructive test (NDT) methods, for solving specific transportation related problems. USDOT/FHWA – August 2004.

### **Asset Management Primer (FINA-112)**

Asset Management, as described in this document, is a business process and a decision-making framework that covers an extended time horizon, draws from economics as well as engineering, and considers a broad range of assets. The Asset Management approach incorporates the economic assessment of trade-offs between alternative investment options, both at the project level and at the network or system level, and uses this information to help make cost-effective investment decisions. FHWA/USDOT – December 1999.

### **Barrier Guide for Low Volume and Low Speed Roads (MGMT-189)**

Provides assistance in the warranting, selection and design of roadside barriers that are low volume or low speed facilities. FHWA/USDOT – November 2005.

### **BASIC Surveying Manual (LTAP-135)**

Basic concepts about surveying and was used in the Basic Construction Surveying Methods training course. This Manual covers: measuring horizontal distances, vertical measurements, construction staking, slopes and grades, field exercises, examples and solutions. Wisconsin TIC – 2002.

### **BMP for the Use of Preservative-Treated Wood in Aquatic Environments in Michigan (BRID-169)**

Intended to: 1) serve as a reference to assist designers and end users of preservative-treated timber products with selection of the proper preservative-treated timber, and, 2) help determine the best management practices for the use of preservative-treated wood in aquatic environments.

Huron Pines Res. Cons. & Dev. Area Council – March 2002

**Bicycle Crash Types: A 1990s Informational Guide (SAFE-171)**

The research applied the basic National Highway Safety Administration (NHTSA) pedestrian and bicyclist typologies to a sample of recent crashes and then refined and updated the crash type distributions with particular attention to roadway and locational factors. University of North Carolina – April 1997.

**Blinded By the Light? How To Handle Glare For Safer Driving At Night brochure (SAFE-242)**

Gives tips on how to fight back at nighttime glare. Also outlines how to adjust your car's lights. AAA – 2004.

**Comprehensive Intersection Resource Library CD Version 3 (SIGN-159)**

A compilation of resources about traditional signalized and unsignalized intersections, roundabouts, highway/rail grade crossings, and other nontraditional intersection designs. FHWA-USDOT – 2006.

**Concrete Pavement Rehabilitation Guide for Load Transfer Restoration (CONC-118)**

Load transfer restoration (LTR) is a rehabilitation technique for increasing the load transfer capability of existing jointed portland cement concrete (PCC) pavement by placement of dowel bars or other mechanical devices across joints and/or cracks that exhibit poor load transfer. US DOT – January 1997.

**Concrete Pavement Repair Manuals of Practice (MAIN-138)**

This book contains two pavement maintenance manuals intended for use by highway maintenance agencies and contracted maintenance firms in the field and in the office. Each is a compendium of good practices for Portland cement concrete (PCC) joint resealing and partial-depth spall repair, respectively, stemming from two Strategic Highway Research Program (SHRP) studies. SHRP/NRC – January 1993.

**Countermeasures That Work: A Highway Safety Countermeasure Guide for State Highway Safety Offices (SAFE-293)**

This guide is a basic reference to assist State Highway Safety Offices (SHSOs) in selecting effective, science-based traffic safety countermeasures for major highway safety problem areas. The guide: describes major strategies and countermeasures that are relevant to SHSOs; summarizes their use, effectiveness, costs, and implementation time; and provides references to the most important research summaries and individual studies. The guide is not intended to be a comprehensive list of countermeasures available for State use or a list of expectations for SHSO implementation. For a description of an optimal State countermeasure program, SHSOs should refer to the Highway Safety Program Guidelines, which delineate the principal components of each of the major program areas. States should identify problem areas through systematic data collection and analysis and are encouraged to continue to apply innovation in developing appropriate countermeasures. The evaluations summarized in this guide allow SHSOs to benefit from the experience and knowledge gained by others and to select countermeasure strategies that either have proven to be effective or that have shown promise. States choosing to use innovative programs can contribute to the collective knowledge pool by carefully evaluating the effectiveness of their efforts and publishing the findings for the benefit of others. NHTSA - U.S. DOT – January 2008.

**Current Application and Successful Implementation of Local Agency Pavement Management in the United States (MGMT-135)**

Documents the activities of a one-year Intergovernmental Personnel Act (IPA) assignment of Mr. Paul Sachs, a transportation specialist from the State of Washington Department of Transportation. The purpose of the assignment was to enhance the FHWA's ability to transfer pavement-management technology to local agencies. USDOT/FHWA – January 1997.

**Deicing Salt Facts: A Quick Reference (SNOW-138)**

A 4-page multi-colored fact sheet covering common questions asked about deicing salt that include storage, environmental protection, corrosion, safety benefits, and potholes. Salt Institute – January 2000.

**Distress Identification Guide from the Long-Term Pavement Performance Program (CONC-145)**

This pocket guide is derived from the Long-Term Pavement Performance (LTPP) program's Distress Identification Manual, Fourth Revised Edition, Publication No. FHWA-RD-03-031, published in June 2003 as part of the Strategic Highway Research Program. ND LTAP – August 2005.

### **Drivers 55 Plus: Check Your Own Performance-A Self-Rating Form of Questions, Facts and Suggestions for Safe Driving (SAFE-241)**

This booklet contains a questionnaire that will help older drivers become aware of areas where physical and mental abilities call for a change in driving habits and skills. AAA – 2003.

### **Environmentally Sensitive Maintenance for Dirt and Gravel Roads (ENVI-155)**

The manual will provide insight into using natural systems and innovative technologies to reduce erosion, sediment and dust pollution while more effectively and efficiently maintaining dirt and gravel roads. The manual will address the environment of forests, mountainous terrain, and rolling hills. Various states already employ some of the more common practices, particularly forestry departments. These states and their local governments are prime targets for deploying the additional practices to be addressed in the practices, recognizing that not one tool can fit every situation or site or solve all their problems in maintaining their dirt and gravel roads and protecting the environment. (Pennsylvania DOT – 2006).

### **European Right of Way and Utilities Best Practices (MGMT-161)**

As right-of-way acquisition and utilities grow more complex, transportation agencies in the United States are under pressure to streamline the process of providing cleared right-of-way for highway projects. The Federal Highway Administration, the American Association of State Highway and Transportation Officials, and the National Cooperative Highway Research Program sponsored a scanning study of England, Germany, Norway and the Netherlands to review best practices in right-of-way and utilities services. FHWA – August 2002.

### **FHWA Study Tour for Pedestrian and Bicyclist Safety in England, Germany, & the Netherlands (SAFE-210)**

The purpose of this report is to document the findings of a European project team visit to England, The Netherlands, and Germany, which was sponsored by FHWA and conducted on September 3-19, 1993. The report documents findings from many areas, including planning practices for pedestrians and bicyclists, roadway facilities, educational and promotional programs, traffic enforcement issues, and some of the relevant pedestrian and bicyclist research that has been conducted in these countries. FHWA - October 1994.

### **Field Guide for Rural Unpaved Roads, 2004 Revision (MAIN-174)**

This revised guide updates the information presented in the original guide dated March 1997, which was based on outdated editions of MUTCD, Green Book, Road Side Design Guide, etc. The purpose of this guide is to provide assistance to local governments responsible for safety of unpaved rural roads. A national focus group assisted in identifying key safety issues for unpaved rural roads. Those issues which ranked highest are included in this guide. This easy to use guide will provide a convenient reference to help answer questions in the field and help providing a safer road environment for unpaved roads. USDOT/FHWA – July 2004.

### **A Flexibility Fitness Training Package for Improving Older Driver Performance brochure (SAFE-243)**

This brochure lists and explains exercises that were designed to improve flexibility as it relates to driving. AAA – 2003.

### **Flexibility In Highway Design (DESI-111)**

U.S. Department of Transportation Federal Highway Administration Flexibility in Highway Design  
This Guide is about designing highways that incorporate community values and are safe, efficient, effective mechanisms for the movement of people and goods. It is written for highway engineers and project managers who want to learn more about the flexibility available to them when designing roads and illustrates successful approaches used in other highway projects. It can also be used by citizens who want to gain a better understanding of the highway design process.  
USDOT/FHWA – July 1997.

### **Forest Roads & The Environment Video Set (ENVI-126)**

A set of 5 videos titled, 1) Forest Roads and the Environment (18min), 2) Reading the Traveled Way, 3) Reading Beyond the Traveled Way, 4) Smoothing and Reshaping the Traveled Way, and 5) Maintaining the Ditch and Surface Cross Drains. These videos provide an overview of how the road interacts with the

surrounding environment, and highlight the techniques and benefits of proper road maintenance practices. USDA Forest Service –March 2002.

**Good News from MDOT: A Progress Report from the Michigan DOT (MISC-156)**

Compilation of the Michigan Department of Transportation's achievements in the time since funding levels increased in 1997. MDOT – December 2000.

**Gravel Roads Maintenance and Design Manual (MAIN-191)**

The manual provides clear and helpful information for doing a better job of maintaining gravel roads. It presents guidelines to help answer questions about the maintenance of gravel roads and is designed for the benefit of elected officials, managers, and grader operators who are responsible for designing and maintaining gravel roads. Information provided is as nontechnical as possible without sacrificing clear guidelines and instructions on how to do the job right. SDLTAP/FHWA – April 2005.

**Great Grader Operators Poster (LTAP-106)**

This poster includes information on operating a motor grader. It contains information on smoothing, blading, and reshaping. Michigan LTAP/Michigan DOT – May 1993.

**Great Lakes Better Backroads Guidebook (ENVI-154)**

Purpose is to improve the water quality in the Great Lakes Region by providing cost-effective techniques and hands-on instructions for the design and maintenance of non-paved roads. This publication is also available online at: <http://www.huronpines.org/project.php?projectId=23> Huron Pines – September 2007.

**Guidelines for the Selection of W-Beam Barrier Terminals (MISC-157)**

This CD has been prepared to provide information to designers and to construction/maintenance personnel responsible for selecting and properly installing the most appropriate terminal design at any site. In addition to showing the actual crash performance of each terminal type, the CD provides guidance on proper site grading and presents real-world examples of both appropriate and inappropriate installations. This CD is 12 minutes that presents information in a format that clearly shows the crash performance characteristics of the three major categories of W-beam terminals. FHWA – January 2007.

**Guidelines for Using Prime and Tack Coats (ASPH-212)**

Prime and tack coat guide publication developed for project development and field personnel to provide decision-making guidance on how to use, when to keep, and when to eliminate prime and tack coats. FHWA – July 2005

**Hazardous Waste: Impact on Roadway Project Development (ENVI-107)**

This publication was put together for a training seminar. The workshop was sponsored by the Michigan Transportation Technology Transfer Center in 1991. URS Consultants – November 1991.

**Highway Performance Monitoring System CD (EQUI-136)**

HPMS Computer Based Training. MDOT/FHWA.

**Highway Safety and Trees: The Delicate Balance DVD (SAFE-283)**

The Federal Highway Administration produced this DVD to further explore the issue of the safe placement of trees along our country's roadsides. The video stresses that the design of highway projects should be a cooperative effort involving the highway agency, concerned communities, organizations, and individual citizens. It provides an opportunity for all parties to recognize the benefits and risks associated with trees. Use Highway Safety and Trees: The Delicate Balance to initiate a dialogue at:

- State and local highway agency meetings where policies related to tree planting, removal, or mitigation are established.
- Public hearings on proposed construction projects that may include the removal of trees to improve safety.
- Town meetings to describe the issues associated with trees and roadside safety, and to encourage cooperation when addressing these issues. USDOT-FWHA – 2007.

**Highway Salt and Our Environment (SNOW-137)**

This booklet will explain why snowfighters use highway salt, how salt works, the effects of highway salt on the environment, infrastructure and motor vehicles, and application techniques to minimize adverse environmental impacts. Salt Institute – 2004.

**Implementing Local Agency Safety Management (SAFE-258)**

This pamphlet answers some questions on Safety Management Systems. “A Partnership to save lives and reduce collisions on count roads and city streets.” FHWA – 2003.

**Innovative Intersection Safety Improvement Strategies and Management Practices: A Domestic Scan (SAFE-277)**

This report provides information on best practices used in five areas in the country to enhance intersection safety. These practices focus on key elements of highway safety: safety management and comprehensive safety processes; traffic control devices for motorists, pedestrians and bicyclists; traffic operational practices; geometric design treatments; and enforcement practices and educational programs. The purpose of this document is to serve as an information and technology transfer tool on intersection safety practices used by State, regional and local transportation officials for the benefit of motorists, pedestrians and bicyclists. It is hoped that the distribution of this report will increase interest in intersection safety and encourage transportation officials to institute the various activities and treatments (or at least a variation thereof) contained within this document. FHWA – 2006.

**Innovative Technology for Accelerated Construction of Bridge and Embankment Foundations in Europe (BRID-183)**

In June 2002, the FHWA, in a joint effort with AASHTO, organized a geotechnical engineering scan tour of Europe. Its purpose was to identify and evaluate innovative European technology for accelerated construction and rehabilitation of bridge and embankment foundations. This report documents the results of this scan. US DOT/FHWA – September 2003.

**InSAR Applications for Highway Transportation Projects (MISC-171)**

This report describes the effectiveness of InSAR in monitoring ground movement, and recommends guidelines for the coordinated use of InSAR with other Federal Lands Highway Program (FLH) data collections. FHWA – April 2006.

**ITS Applications for Coordinating and Improving Human Services Transportation- A Cross Cutting: Improving Service for the Transportation Disadvantaged (MISC-166)**

This study profiles six examples of ITS technologies in use. It examines in depth the use of ITS technologies to improve transportation operations and coordination, information dissemination, fare payment, and safety and security. The study offers valuable lessons learned and keys to success in all stages of the evolution of ITS technologies: planning, design, implementation, and evaluation. FHWA – August 2006.

**LTAP – Partners in Innovation: Serving Local and Tribal Governments (LTAP-130)**

Pamphlet: Describes the most direct, hands-on method the FHWA has for moving innovative transportation technologies out of the lab, off the shelf, and into the hands of the people who maintain our local, rural, and tribal streets and roads. FHWA – 1998.

**LTAP: Technology Transfer Tools for Local Transportation Excellence (LTAP-129)**

The Local Technical Assistance Program (LTAP) provides a vital link between new highway technologies and local communities throughout the Nation. The LTAP network is living proof that the partnerships that have evolved among the States, academia, local highway agencies, tribal governments, and the Federal Government can accomplish more than these groups working in isolation. This partnership approach enables new ideas and technologies to be put to use quickly, efficiently, and in a way that is responsive to local needs. Innovative activities and creative execution are hallmarks of this program. USDOT/FHWA – January 1994.

## **Maintenance of Signs and Sign Supports for Local Roads and Streets – A Guide for Street and Highway Maintenance Personnel (SIGN-153)**

This handbook is intended to help maintenance workers understand the importance of well maintained signs and provide information that will help them in accomplishing that task. This publication is available online at: <http://www.dot.state.il.us/blr/p007.pdf> USDOT/FHWA – 2002.

## **Michigan Department of Transportation Bridge Construction Inspection Checklist (BRID-179)**

This booklet covers 179 points on the following topics: Foundation, unclassified foundations, and rock excavation; Cofferdam-steel sheet piling and earth dikes and/or well-point system; Foundation piling; Concrete beams (cast-in-place) and temporary supports; Pre-cast concrete beams (pre-stressed); Forming and placing superstructure concrete before the pour; and before placing parapet or barrier railing. Michigan LTAP/MDOT – 2002.

## **Minimizing Low Volume Road Water Displacement (DRAI-127)**

This discusses water/road interaction in terms of surface water concentrations on the road segments and subsurface flows intercepted by road cuts. There is background information for road influences in hydrology, Evolving road drainage philosophy, and a summary of existing methods for minimizing water displacement. USDA Forest Service – July 2000.

## **NACE Action Guide Volume I-3 Purchasing Authority Action Guide Series (MAIN-181)**

This action guide provides an overview of purchasing and procurement procedures. NACE – January 1995.

## **NACE Action Guide Volume I-8 Public Awareness and Support Action Guide Series (MAIN-182)**

NACE – January 1995.

## **NACE Action Guide Volume II-5 Solid Waste Management Action Guide Series (MGMT-170)**

This guide is intended to identify the basis behind and procedures for development and operation of a solid waste management program by county engineers and other officials responsible for these activities. NACE – January 1995.

## **NHI Style Guide (Instructor-Led Training) CD-ROM (SPEC-131)**

Helps assure consistent presentation formats for NHI courses. Contains style guide and appendices. Style Guide addresses print, formatting, grammar, punctuation and NHI specifications. Appendices include samples of courseware, including instructor guide, participant workbook, reference manual and reference list. NHI – 2004.

## **Older and Wiser Driver pamphlets**

AAA Foundation for Traffic Safety – 1997.

## **Optimal Procedures for Quality Assurance Specifications (SPEC-124)**

This manual is a comprehensive guide that a highway agency can use when developing new, or modifying existing acceptance plans and quality assurance specifications. It provides necessary instruction and illustrative examples to lead the agency through the entire process of acceptance plan development. FHWA – April 2003.

## **Pavement Preservation Toolbox CD: The Sequel (ASPH-213)**

A one-stop library that contains a wealth of information on cutting edge techniques and practices in pavement preservation. FHWA USODT – June 2007.

## **Pavement Warranty Symposium: Policy, Development, and Implementation- Final Report (ASPH-200)**

This report summarizes the findings from a symposium held in Grand Rapids, MI in May 2003. The symposium was sponsored by the Michigan Department of Transportation and three offices within the Federal Highway Administration. The Michigan Local Technical Assistance program coordinated the effort. MDOT, FHWA, MI LTAP – 2003.

## **Pay Attention! Brochure (SAFE-246)**

This brochure emphasizes the danger of distractions while driving. AAA – 2004.

**Pedestrian Crash Types: A 1990s Informational Guide (SAFE-170)**

This pedestrian crash type informational guide is a supplement to a research report entitled, 'Pedestrian and Bicycle Crash Types of the Early 1990's' (FHWA-RD-95-163). The purpose of the research was to apply the basic NHTSA pedestrian and bicyclist typologies to a sample of recent crashes and to refine and update the crash type distributions with particular attention to roadway and locational factors.

U of NC – April 1997.

**Performance of Weathering Steel in Highway Bridges-A Third Phase Report (BRID-157)**

Phase - III of this project began in 1993. This included revisiting the 52 bridges that were initially inspected in 1980 as part of Phase - I. In addition to the original bridges, eleven others were added for inspection: five in Iowa; one in California; and five in Puerto Rico with two parallel bridges at each site. American Iron and Steel Institute – January 1995.

**Pre-Trip Inspection DVD (SAFE-278)**

This 6-minute DVD covers the fundamentals of tire inspection. Michelin.

**Preventing Road Rage- How to Avoid Anger While Driving Brochure (SAFE-245)**

This brochure offers tips on how to avoid being the victim of a road rage attack. AAA – 2004.

**Primer: GASB 34 (FINA-111)**

This Primer on the Governmental Accounting Standards Board (GASB) Statement 34(GASB 34), was promulgated by GASB on June 15, 1999. Statement 34 calls for state, local, and municipal governments to calculate the original cost of infrastructure constructed or improved during the 20-year period prior to the Statement's issuance date in their annual financial reports. FHWA USDOT – November 2000.

**Repair and Rehabilitation of Treated Timber Bridges (BRID-178)**

This publication is written by Kenneth Johnson, P.E. of Wheeler Consolidated and was used at the 2004 Michigan Bridge Conference. The focus of this paper will be on timber bridges and those instances where treated timber would be the most appropriate material to be used for the construction procedures proposed. Wheeler Consolidated, Inc. – 2004.

**Retroreflective Sheeting Identification Guide (SIGN-158)**

This publication is a one-page laminated sheet. It includes photographs that show the sheeting pattern at actual size. It also has symbols that depict watermark visible on the sheeting when viewed up close.

FHWA – September 2005.

**Roadside Revegetation: An Integrated Approach to Establishing Native Plants (ENVI-157)**

Native plants are a foundation of ecological function, affecting soil conservation, wildlife habitat, plant communities, invasive species, and water quality. Establishing locally-adapted, self-sustaining plant communities can also support transportation goals for safety and efficiency.

Past obstacles to establishing native plant communities on roadsides have been technical, information, and organizational. Effective strategies and practical techniques for revegetating the disturbed conditions with limited resources must be made available to practitioners. Multiple disciplines ranging from engineering to soil science, ecology, botany, and wildlife science, must be able to work cooperatively, not in isolation.

This report offers an integrated approach to facilitate the successful establishment of native plants along roadsides and other areas of disturbance associated with road modifications. It guides readers through a comprehensive process of: 1) Initiating, 2) Planning, 3) implementing, and 4) monitoring a roadside revegetation project with native plants. FHWA – November 2007.

**SAFER Manual: Safety Evaluation for Roadways (SAFE-211)**

This manual is designed to provide background information and offer an approach for reviewing safety conditions on local roads and streets. It also should help local officials with setting priorities and planning for both immediate action and future improvements. The manual includes more than 100 photographs to help you recognize potential hazards found on local roads and streets. Potential hazards are grouped into categories:

roadsides, intersections, railroad crossings, geometrics, warning signs, pavement markings, road maintenance, and special conditions. University of WI-Madison – June 2000.

**Safety Inspection of In-Service Bridges CD-ROM (BRID-192)**

NHI Bridge Inspection Course Materials CD-ROM  
Safety inspection of in-service bridges  
Instructor's Guide  
LTAP – November 2005

**Salt Storage Handbook (SNOW-135)**

A guide for handling and storing deicing salt. Helps in planning or improving salt storage facilities and provides guidance for good storage and handling procedures.  
At the end of this handbook is a useful form for snow and ice control agencies for comparing the total cost of salt vs. an abrasive salt mix. Salt Institute – 1996.

**Salt Storage Summary (SNOW-144)**

A 3-page summary of the popular handbook, Salt Storage Handbook. Salt Institute – 1996.

**Shorter Duration, Safer Work Zones, More Satisfied Travelers-Successful Applications of Full Road Closure in Work Zones brochure (WKZN-111)**

Benefits include: reduced project duration, increased worker productivity, improved safety, improved product quality, positive public sentiment, and cost saving. US DOT/FHWA – 2003.

**Sign Installation Guide (SIGN-143)**

This guide contains information needed to install traffic control signs on National Forest Roads in accordance with the Manual of Uniform Traffic Control Devices and EM-7100-15, Sign & Poster Guidelines for the Forest Service. Proper location, position and erection of signs is very important, the effectiveness of a sign can be compromised if it is not installed correctly, a sign that is confusing or one that a driver cannot see in time, is useless. USDA Forest Service – July 2003.

**Sign Sheeting Products and Regulations: Rumors, Myths, and the Straight Facts (SIGN-163)**

This document is intended as a brief reference to dispel misinformation that has become commonplace. FHWA – 2003.

**Snow Fence Guide (SNOW-125)**

Snow fences can save lives and reduce maintenance costs. To be effective, however, snow fences must be designed and placed properly. Properly designed and placed, taller fences are dramatically more effective than the traditional low picket fence. SHRP – October 1991.

**The Snowfighter's Handbook (SNOW-150)**

This manual is dedicated to the thousands of men and women in public works agencies at all levels whose task is providing safe streets and highways during winter storms. It includes pre-winter planning, equipment scheduling and maintenance, special plowing and spreading problems and environmental considerations. Salt Institute – November 2007.

**A Snowplow Operators' Guide to Snow and Ice Equipment (SNOW-147)**

This DVD from the Idaho Department of Transportation and Idaho Technology Transfer Center contains short video clips and interactive elements for snow plow operators to learn about or review snow and ice fighting equipment types, maintenance, inspection, and operation. Operators can review individual equipment and techniques at their own pace and then test their knowledge using the included interactive quizzes. Reviewing the entire DVD requires about four hours. You need a Windows-based computer with a mouse to use this interactive DVD. Idaho LTAP – 2006.

**Specifications for Chip Seals, Slurry Seals, and Crack Sealing for the North Central Region (MAIN-148)**

This report is a partial printing of SHRP-M/FR-92-102, Development of a Procedure to Rate the Application of Pavement Maintenance Treatments. SHRP – August 1992.

### **Specification Writers' Guide For Federal Lands Highway (SPEC-132)**

This guide is intended for writers that develop specifications for the FHWA Federal Lands Highway Program (FLH). This guide is to promote and facilitate the writing of specifications that conform to the five C's of specification writing - clear, concise, complete, correct, and consistent. Adherence to the guidance provided in these chapters and Chapter 9.4.11 of the FLH's Project Development and Design Manual will help writers develop well-written specifications for use with the 'Standard Specification for Construction of Roads and Bridges on Federal Highway Projects (FP)'. The FP in and of itself is a good example of proper style and format. USDOT/FHWA – May 2008.

### **Subsurface Imaging of Lava Tubes Roadway Applications (MISC-170)**

Details of geophysical surveys performed at the Lava Beds National Monument (LBNM). The geophysical surveys were performed over several years with unknown lava tubes. FHWA – September 2005

### **Tea-21 Transportation Equity Act for the 21st Century Key Information (FINA-113)**

Covers key information for the Transportation Equity Act in a number of categories and subdivisions. US DOT – October 1998.

### **TechBrief - A Review of the Signalized Intersections: Informational Guide (SIGN-147)**

The brief provides methods for evaluating the safety and operation of signalized intersections and tools to remedy deficiencies. The information contained in this guide is based on the latest research available. The guide's information and tools will help practitioners make insightful intersection assessments and understand the tradeoffs of potential improvement measures. The report will be available in Fall 2004 and information on where to obtain it is on the last page. USDOT/FHWA – April 2004.

### **Ten Commandments for Snow Fighters poster (SNOW-142)**

This poster is produced by the National LTAP Association in partnership with the Salt Institute, 2005. It includes 10 safety tips for snow fighters. Salt Institute – January 2005.

### **Transportation Action: A Local Input Model to Engage Community Transportation Planning (WSBR-131)**

The Transportation Action Model seeks to marry technical information with a decision making process that assists rural communities in transportation planning. The process includes creating public dialogue, identifying transportation issues, and developing solutions. Successful completion of the program should provide a blueprint for local action. USDOT – April 1996.

### **United States Pavement Markings Poster (SIGN-141)**

This brochure is an outreach tool to educate transportation professionals and the general public about the proper design and use of many of the pavement markings on our nation's highways. It illustrates the following pavement markings: Two-way traffic markings, freeway entrance and exit markings, HOV lane markings, yield markings, work zone pavement markings, miscellaneous lane markings, and intersection markings. US DOT/FHWA – 2002.

### **United States Road Symbol Signs Poster (SIGN-140)**

This is a poster style document put out by the U.S. Department of Transportation the Federal Highway Administration. It has a sample of all the road symbol signs as of 2002. US DOT/FHWA – 2002.

### **Wake Up! Brochure – (SAFE-244)**

This brochure discusses the dangers of driving while drowsy and ways to prevent it. AAA – 2003.

### **A Walkable Community is Much More Than Just Sidewalks...Your Town, USA brochure (MAIN-184)**

The brochure focuses on the design of safe and successful pedestrian facilities. USDOT/FHWA – 2000.

### **Work Zone Safety for Drivers (WKZN-123)**

This brochure provides information to drivers on work zone safety. FHWA – 2003.