

Welcome

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Agenda

- 9:00 Welcome
- 9:15 Overview of MTRB report
- 9:45 Q&A on report
- 10:15 Comments from Larry Tibbits
- 10:30 MTRB activities
- 11:00 Adjourn

What is MTRB?

MTRB is a voluntary advisory body to Michigan's transportation agencies, led by MDOT, that will:

- Assist in identifying and prioritizing transportation research needs
- Interact with organizations that conduct and support research
- Champion the value of research to improve Michigan's transportation system

What is MTRB? (Cont'd)

- Promote an exchange of information, ideas, and knowledge benefiting transportation stakeholders through open discussions
- Help set broad direction for annual research programs, and evaluate progress on an annual basis consistent with MDOT's and other agencies' business plans

MTRB Executive Committee

- Gary Taylor, ACEC (Vice Chair)
- John Daly, CRAM (Treasurer)
- Tess Ahlborn, Michigan Tech
- David Bertram, MTA
- Glen Bukowski, MITA
- Don Cameron, FHWA
- Joe Fivas, MML
- Aarne Frobom, MDOT
- Richard Hammond, MDOT
- Clark Harder, MPTA
- Victor Li, University of Michigan
- Calvin Roberts, MDOT
- Pietro Semifero, OHSP
- Jonathan Start, MTPA
- Mumtaz Usman, Wayne State University

MTRB Meetings

- MTRB meetings will be held once or twice a year
- The MTRB Executive Committee will meet more regularly

Overview of the MTRB Report

Improving Michigan's Transportation System
through Research

Overview of the MTRB Report

Executive Summary

- Introduction: Background of MTRB
- MTRB Committee Reports

2.1 Research Process Management

1. Current shortcomings
2. Recommendations for improvement
 - Establish TRIM
 - Balance proportion of TRB dues from planning and research
 - Use uniform process across all research areas

2.2 Implementation

Identified impediments to implementation and proposed potential solutions

- Recognition system (e.g., awards)
- MDOT should implement LCA
- Benchmark implementation
- Increase national exposure of projects
- Establish Web-based database
- Annual conference
- Funding mechanisms for implementation

2.3 Research Funding & Legislation

- TRIM should actively facilitate Michigan researchers to go after NCHRP and FHWA projects
- Work to change state legislation that caps MDOT's SPR II allocation to \$7M even though \$9.4M is available
- MTRB should provide an annual report to Michigan's Transportation Commission
- TRIM should develop private funding for research

2.4 Bridges

Five thematic areas:

- Preservation
- New Materials and Systems
- Performance and Reliability
- Rapid Construction
- Information Technology

Problem statements were reduced from
~60 to 25 to 9.

2.5 Pavements and Roadways

Four thematic areas:

- Pavement Preservation
- Improving Quality and Performance of Pavements
- Pavement Design and Performance
- Vehicle Pavement Interaction

28 problem statements.

2.6 Traffic Operations and Safety

Five thematic areas:

- Intelligent Transportation Systems
- Driver Behavior and Safety
- Work Zone Safety
- Data Collection, Retrieval and Management
- Operations and Safety Issues

33 problem statements.

2.7 Public Transportation

Five thematic areas:

- Planning
- Operations
- Equipment
- Implementation
- Other

21 problem statements.

2.8 Planning, Land Use and Environmental Impacts

Five thematic areas:

- Improving Environmental Mitigation
- Improving Current Travel Models and Appropriate Applications for Simulation Models
- Evaluating and Documenting Impacts of New Design Standards
- Enhancing Scenario Planning through Best Practices
- Improving Development Impact Reviews

16 problem statements.

2.9 Border Issues and Homeland Security

Four thematic areas:

- Crossing Efficiency
- Homeland Security
- Protection of Infrastructure
- Emergency Preparedness

2 problem statements.

2.10 Aviation, Maritime, Rail and Freight

Two thematic areas:

- Aviation Safety and Aircraft Surveillance
- Aviation Education/Maintenance Engineering

2 problem statements.

2.11 Non-Motorized Transportation

Four thematic areas:

- Facilities Design
- Usage and Demand Data; Market Research
- Institutional Issues
- Safety

13 problem statements.

Appendices

- A. Members of MTRB Committees
- B. Charter of the MTRB
- C. Draft Charter of TRIM
- D. Recommended Research Solicitation, Prioritization and Selection Process
- E. Current Practices in Research Implementation
- F. AASHTO Solicitation Form
- G. Brief Overview of Research Implementation in Other State DOTs
- H-M. Detailed Problem Statements by Each Committee

MTRB Activities

Activities Over Last Two Years

- Formed 11 committees, 3 process-oriented and 8 technical
- Developed recommendations on research process issues and technical problem statements
- Compiled a report to Michigan's transportation agencies

MTRB Committees and Chairs

1. Research Process Management & Prioritization: Ron Harichandran
2. Research Implementation: Victor Li
3. Research Funding & Legislation: John Daly
4. Bridges: Roger Till & Sherif El-Tawil
5. Pavements & Roadways: Neeraj Buch & Starr Kohn
6. Traffic Safety & Operations: Rick Lyles
7. Public Transportation: Bill Sproule
8. Planning, Land-Use & Environmental Impacts: Jerry Rowe & Paul Hamilton
9. Border Issues & Homeland Security: François Dion
10. Aviation, Maritime, Rail & Freight: Philip Tartalone
11. Non-Motorized Transportation: Aarne Frobom

Activities for Next Year

- Work with MDOT and universities to establish TRIM
- Hire director and staff for TRIM
- Meet with Michigan's Transportation Commission
- Committees review and refine thematic areas and problem statements in conjunction with MDOT
- Assist funding agencies establish a uniform research solicitation and prioritization process

Acknowledgement

Thanks to Rick Hammond (MDOT) for providing the meeting location.