# Meet MTC's board members

The advisory board meets annually to review and provide advice regarding MTC's projects and programs.

**Madeleine Bloom**
Federal Highway Administration

**Perry Bourne**
IBP, Inc.

**Henry Hungerbeeler**
Missouri DOT

**Tom Kane**
Des Moines Area MPO

**Tom Maze**
Howard R. Green Consulting Engineers

**A. George Ostensen**
Midwestern Resource Center
Federal Highway Administration

**C. Ian MacGillivray**
Iowa DOT

**Herbert Schmidt**
Contract Freighters, Inc.

**Reg Souleyrette**
Iowa State University

**Marc Thornsberry**
City of Springfield, Missouri

# Research project updates

## New Projects

The MTC has funded three proposals for new projects to begin during its second year:

**Identification and Development of User Requirements to Support Robust Corridor Investment Models** Kathleen Trauth, University of Missouri–Columbia

This project pairs engineers and economists to determine the information needed from economic models to analyze highway corridor investments, develop a framework to efficiently analyze the costs and benefits of highway corridor investments, evaluate the most readily available modeling approaches, assess high-resolution remote sensing data sources as input for the economic models, and asses the capability of geographic information systems (GIS) to organize model input and output with regard to transportation investments.

**Application of Advanced Remote Sensing Technology to Asset Management**
Shauna Hallmark, Iowa State University

This research project uses LIDAR (or light detecting and ranging), an airborne remote sensing technique, to locate, describe, and monitor transportation assets. This study will examine the accuracy, usefulness, and cost-effectiveness of LIDAR in asset management. In addition to overall effectiveness, LIDAR will be tested for its infrastructure performance assessment, bridge surety assessment, and use of remote sensing for management for highway assets for safety.

**Research and Training of Private Transportation Providers for the Efficient and Effective Provision of Transportation Services**
Ray Mundy, University of Missouri–St. Louis

This project will undertake research and training programs that will support more efficient and effective public transportation services and better use of assets from both the public and private sectors. Currently most research is done in the public sector, but private providers of public transportation are another major player in transportation.

## Ongoing Projects

Five first-year research projects are underway, some nearing completion:

**Addressing Integration Issues and Developing a Protocol for Integration of Global Positioning Systems Data with Linear Referenced Data in an Asset Management System**
Shauna Hallmark, Iowa State University

**GIS-Based Integrated Rural and Small Urban Asset Management System**
Carl Kurt, University of Kansas

**Decision-Support System for Management of Slope Construction and Repair Activities: An Asset Management Building Block**
J. Erik Loehr, University of Missouri–Columbia

**Roadway Asset Management System Manual for Local Governments**
Anil Misra, University of Missouri–Kansas City

**Artificial Intelligence-Based Optimization of Management of Snow Removal**
Mohammed Salim, University of Northern Iowa