

<b>John Shaw, MUP, PE, RSP</b>	
Researcher, Center for Transportation Research & Education (CTRE) Local Roads Safety Liaison, Iowa Local Technical Assistance Program (LTAP) Institute for Transportation Iowa State University 2711 South Loop Dr. Suite 4700 Ames, IA 50010	(515) 294-4366 <a href="mailto:jwshaw@iastate.edu">jwshaw@iastate.edu</a>  <b>IOWA STATE UNIVERSITY</b> <b>Institute for Transportation</b>

**BACKGROUND**

Mr. John Shaw is a civil engineer and transportation planner who brings a practitioner’s eye to research and a researcher’s eye to practice. He has dedicated his career to improving the safety and effectiveness of the transportation system by making connections across organizational, professional, regional, and modal boundaries.

Early in his career, Shaw led the development of safety and incident management guidelines for the fully-automated passenger rail system at Chicago O’Hare International Airport. Over the next 18 years, he worked at the Wisconsin Department of Transportation in the areas of Planning and Operations to strengthen relationships with local government, support multi-modal projects, improve data collection and forecasting, develop the organization’s capacity for traffic analysis and simulation, and address managerial challenges such as the efficient and equitable allocation of human resources. He also led the development of *A Comprehensive View of Transportation: Better for Everyone*, an internal Wisconsin DOT report designed to help the agency’s management and front-line staff understand the importance of a multimodal approach.

In 2011, Shaw became a researcher at the University of Wisconsin–Madison. In this capacity he developed a series of work zone safety guidelines and training materials for the Federal Highway Administration. These materials address pedestrian safety in work zones, illumination design for night work zones, when to use of positive protection (barriers), and management of traffic incidents in work zones. Shaw also led two projects funded by the Smart Work Zone Deployment Initiative (SWZDI) multi-state pooled funds study: one project developed new sign face designs for lane closures in work zones; the other evaluated driver response to orange pavement markings.

In January 2017, Shaw joined the academic staff at Iowa State University. His current research projects include the NCHRP 20-122 Rural Transportation Research Roadmap, work zone safety guidelines development for FHWA, in-service evaluation of roadside safety hardware for the Iowa Highway Research Board, “Unticketing,” an innovation project exploring non-punitive methods to promote speed limit compliance, and preparation of updated cost-effectiveness analysis methods for Iowa transportation safety projects.

Shaw has served on NCHRP and SHRP2 expert task groups (most recently NCHRP 03-122 *Performance-Based Management of Traffic Signals*). In addition to his current work on the NCHRP 02-122 Rural

Transportation Research Roadmap he was the project manager and primary author for NCHRP Synthesis 482 *Work Zone Speed Management*.

## **EDUCATION**

- Master of Urban Planning, University of Michigan, Ann Arbor, MI, 1990
- BSE, Civil Engineering, University of Michigan, Ann Arbor, MI, 1988

## **PROFESSIONAL EXPERIENCE**

- Researcher, Iowa State University Intrans/CTRE, 2017–present
- Researcher, University of Wisconsin – Madison, 2011-2017
- Transportation Analysis & Data Management Program Leader, Wisconsin DOT, 2006-2011
- Data & Analysis Supervisor, Wisconsin DOT, 2000-2006
- Civil Engineer – Local Transportation Programs, Wisconsin DOT, 1993-2000
- System Engineer – O’Hare Automated Transit System, Matra Transit, Inc., 1991-1993

## **SELECTED PUBLICATIONS**

- Cyr, Justin, John W. Shaw, and Peter T. Savolainen (2019). "Motor Vehicle Crashes Involving Railroad Crossing Signal Masts and Guardrails." TRB Annual Meeting, Washington, DC.
- Shaw, John W (2019). "Predicting the Service Life of High-Tension Cable Barriers: A Summary of Expert Opinions." TRB Annual Meeting, Washington, DC.
- Shaw, John W, Madhav V Chitturi, Kelvin R. Santiago-Chaparro, Lingqiao Qin, Andrea R Bill, and David A Noyce (2018). "Orange Work Zone Pavement Marking Midwest Field Test." TRB Annual Meeting, Washington, DC.
- Shaw, John W, Zachary N. Hans, Reginald R. Souleyrette, and Peter T. Savolainen (2018). "Selecting Safety Improvement Projects for Railroad Grade Crossings on Public Highways: Issues and Opportunities." TRB Annual Meeting, Washington, DC.
- Shaw, John W., Madhav V. Chitturi, Andrea R. Bill, and David A. Noyce (2018). "Driver Comprehension of Lane Reduction Signage: Alternatives to the MUTCD W4-2 for Work Zones." TRB Annual Meeting, Washington, DC.
- Shaw, John W., Praveen Edara, Madhav V. Chitturi, Carlos Sun, Andrea R. Bill, and David A. Noyce (2017). Evaluation of Alternative Work Zone Signing: Final Report. Ames, IA: Institute for Transportation - Iowa State University.
- Shaw, John W, Madhav V Chitturi, and David A Noyce (2017). "Special-Color Pavement Marking for Highway Work Zones: Literature Review of International Practices." Transportation Research Record: Journal of the Transportation Research Board 2617:78-86.

## **AFFILIATIONS AND SERVICE**

- Member, TRB Task Force on Transportation Systems Simulation Manual (AHB80T)
- Member, NCHRP Project Panel on Performance-Based Management of Traffic Signals (D01322)
- Friend, TRB Standing Committee on Work Zone Traffic Control (AHB55)
- Friend, TRB Standing Committee on Transportation Safety Management (ANB10)