David A. Noyce, Ph.D., P.E.

Director University of Wisconsin-Madison Department of Civil and Environmental Engineering



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Education	Ph.D Civil Engineering (Transportation), Texas A&M University, 1999
	M.S Civil and Environmental Engineering, University of Wisconsin – Madison, 1995
	B.S Civil and Environmental Engineering, University of Wisconsin – Madison, 1984
	Graduate Studies - MBA Program, University of Wisconsin – Whitewater, 1990-1994

Positions	2003 – present co-Director, Traffic Operations and Safety Laboratory, UW-Madison		
TT - 1-1	2002 – present Assistant Professor, Civil and Environmental Engineering, UW-Madison		
Held	1999 – 2002 Assistant Professor, Civil and Environmental Engineering, UMass-Amherst		
	1998 – 1999 Assistant Lecturer, Civil Engineering, Texas A&M University		
	1995 – 1998 Research Assistant, Civil Engineering, Texas A&M University		
	1995 – 1999 Researcher, Texas Transportation Institute, Texas A&M University		
	1994 – 1995 Research Assistant, Civil and Environmental Engineering, UW-Madison		
	1992 – 1994 Barrientos & Associates, Transportation Group Manager, Madison, WI		
	1989 – 1992 Warzyn/EWI/Woodward-Clyde, Transportation Engineer, Madison, WI		
	1986 – 1989 Crispell-Synder, Transportation Engineer, Elkhorn, WI		
	1984 – 1986 Illinois Department of Transportation, Civil Engineer II, Ottawa, IL		

Research	Transportation Safety; Traffic Signal Operations; Geometric Design; Traffic Control
Interests	Devices; Highway-Railroad Grade Crossings; Human Factors/Driver Behavior; Crash Reconstruction; Transportation Public Policy; Driving Simulation; Bicycle/Pedestrian Facilities; Parking Facilities; Intelligent Transportation Systems (ITS); Construction Work
	Zone/Management

Selected Current Projects	Road Weather Safety Audit Development and Research is Weather Countermeasures. Federal Highway Administration (FHWA) and Wisconsin Department of Transportation (WisDOT).
Projects	The Effectiveness of the Flashing Yellow Arrow in Protected/Permissive Left-Turn Operations. National Cooperative Highway Research Program (NCHRP), National Academy of Sciences.
	Roadside Safety Countermeasure Evaluation - The Safety Effects of Turn Down Guardrail Ends, Trees, and Fences on Wisconsin Freeways. Federal Highway Administration (FHWA) and Wisconsin Department of Transportation (WisDOT).
	Run-Off-Road Safety Countermeasure Development - Cross-Over-The-Median Crashes in Wisconsin. Federal Highway Administration (FHWA) and Wisconsin Department of Transportation (WisDOT).
	<i>Evaluation of Work Zone Management and Safety Methodologies</i> . Federal Highway Administration (FHWA) and Wisconsin Department of Transportation (WisDOT).

Selected	
Selected Publications	 Gates, Tim J., David A. Noyce, Andrea Bill and Nathanael VanEe. The Effect of Traffic Control Devices and Pedestrian Characteristics on Walking Speeds. Accepted for publication in <i>Transportation Research Record</i>, TRB, National Research Council, Washington, D.C., 2006. Gates, Tim J., David A. Noyce, and Paul H. Stine. The Safety and Cost-Effectiveness of Bridge Approach Guardrail for Low Traffic Volume Highway Bridges. Accepted for publication in <i>Transportation Research Record</i>, TRB, National Research Council, Washington, D.C., 2006. Knodler, Michael A. Jr., David A. Noyce, Kent C. Kacir and Christopher L. Brehmer. An Analysis of Driver and Pedestrian Comprehension of Requirements for Permissive Left-Turn Applications. Accepted for publication in <i>Transportation Research Record</i>, TRB, National Research Council, Washington, D.C., 2006. Knodler, Michael A. Jr., David A. Noyce, Kent C. Kacir and Christopher L. Brehmer. Potential Application of the Flashing Yellow Arrow Permissive Indication in Separated Left-Turn Lanes. Accepted for publication in <i>Transportation Research Record</i>, TRB, National Research Council, Washington, D.C., 2006. Qin, Xiao, David A. Noyce, and Chanyoung Lee. Snowstorm Event-Based Crash Analysis. Accepted for publication in <i>Transportation Research Record</i>, TRB, National Research Council, Washington, D.C., 2006. Noyce, David A. and Billie Louise Bentzen. Determination of Pedestrian Pushbutton Activation Duration at Typical Signalized Intersections. In <i>Transportation Research Record</i>, 7RB, National Research Record, 7RB, National Research Record, 7RB, National Research Record, 7RB, National Research Record, 7RB, National Research Council, Washington, D.C., 2006. Noyce, David A. and Billie Louise Bentzen. Determination of Pedestrian Pushbutton Activation Duration at Typical Signalized Intersections. In <i>Transportation Research Record</i>, 78B, National Research Record, 7RB, National Research Record, 7RB, Na
	Research, Part F Trainc Psychology and Benavior, Volume 7, 2004, pp. 209-227. Noyce, David A. and Kent C. Kacir. Drivers' Understanding of Simultaneous Traffic Signal Indications in Protected Left-Turns. <i>Transportation Research Record 1801</i>, TRB, National Research Council, Washington, D.C., 2002, pp. 18 - 26. Winner of the D. Grant Mickle Award for best paper at TRB.

Professional	Institute of Transportation Engineers – Member				
	Chair, Pedestrian and Bicycle Council	2001 – 2004			
Service	Member, Transportation Education Council Executive Committe	e1997 – 2002			
	Member, Annual Meeting Paper Selection Committee	1999 – 2002			
	University of Wisconsin Student Chapter Advisor	2002 – pres.			
	American Society for Engineering Education - Member				
	American Society of Civil Engineers – Member				
	Transportation Research Board				
	Panel Member – NCHRP 17-21				
	Panel Chair – NCHRP 03-61				
	Member – Traffic Control Devices Committee (A3A02)				
	University Representative				
	National Committee on Uniform Traffic Control Devices				
	Member – Signals Technical Committee				
	ITS America				
	Eno Transportation Foundation				