

Christopher M. Monsere

ASSISTANT PROFESSOR OF CIVIL AND ENVIRONMENTAL ENGINEERING
ASSISTANT DIRECTOR, INTELLIGENT TRANSPORTATION SYSTEMS LAB



"PSU's unique urban setting and the collaborative spirit of my colleagues in the transportation profession, both on campus and off, creates an environment that allows me to develop as a researcher and bring relevant case studies to the classroom."

When Dr. Christopher Monsere completed his Ph.D. in civil engineering at Iowa State University, he knew he wanted to pursue an academic career, but he also felt that having the practical application of working in industry would be good for his students and good for his research. As Highway Safety Engineer at the Oregon Department of Transportation (ODOT) from 2000 to 2004, his responsibilities included the identification of statewide high crash locations, developing and managing tools for the evaluation of safety projects, approving highway illumination, and technical evaluation of highway safety improvements.

Dr. Monsere's transition to Portland State was a smooth one, and carried with it key collaborations with outside organizations. His primary research interests are in the areas of highway safety, freight transportation, and traffic operations. His research sponsors include the Oregon Transportation Research and Education Consortium (OTREC), Oregon Department of Transportation, U.S. Department of Transportation, City of Portland, and the Foundation for Air Medical Research and Evaluation. One of his current research projects is with the city of Portland's Community and School Traffic Safety Partnership, identifying strategies to reduce driving under the influence for the City's safety program (www.its.pdx.edu/cstsp.php).

The recent growth and excitement generated by PSU's transportation program is going to continue. The Oregon Transportation Research and Education Consortium (OTREC) recently received \$16 million in federal funding over the next five years for transportation research, education, and outreach programs which translates to more support for transportation students and faculty at PSU.

A priority for Dr. Monsere and his colleagues is to provide students with opportunities for learning, both in and out of the classroom. His courses have a strong student-centered focus, and he works to provide his students opportunities to be involved in research, get involved with the profession, and support their career development. Incorporating real examples in his class projects is a theme of most of his courses. "My students have helped study high-crash locations in Portland and Beaverton, done preliminary design of sections of the Fanno Creek Trail, and studied the feasibility of a Willamette River passenger ferry system."

Finally, as advisor to the Students in Transportation Engineering and Planning (STEP), Dr. Monsere has helped support student experiences at local, regional, and national conferences.



Education

- Ph.D., Iowa State University, 2001
- MSCE, Iowa State University, 1997
- BSCE, Univ. of Detroit Mercy 1995

Professional Experience

- Registered professional engineer, Oregon.
- Highway Safety Engineer, Oregon DOT 2000-2004.
- Other experience in consulting.

Goals at Portland State University

- Leverage resources and create research program that benefits city, state and region on a variety of important areas including safety, freight and operations.
- Create real student learning experiences.
- Mold next generation of transportation professionals.
- Transfer knowledge to community and industry.

Accomplishments

- Two new transportation engineering courses - Freight Transportation and Safety Analysis - unique in Oregon.
- Strong publication record nearly all with student co-authors.
- Generated \$1,000,000 in external research funding at Portland State—most to support students.
- Service to the profession - active with the Institute of Transportation Engineers (ITE) and was the recipient of the ITE Oregon Section and District 6 Outstanding Individual Achievement Award for contributions to transportation education, research, and practice in 2005.

Oregon Transportation Research and Education Consortium

- New statewide collaborative National University Transportation Center—Portland State University in partnership with the University of Oregon, Oregon State University and the Oregon Institute of Technology.
- \$16 million toward expanded transportation research, education and technology transfer, 2006-2011
- Multidisciplinary theme: advanced technology, integration of land use and transportation, and healthy communities.
- www.otrec.us.



OTREC
OREGON TRANSPORTATION RESEARCH
AND EDUCATION CONSORTIUM



Intelligent Transportation Systems Lab

- Motor Vehicle Crash Fatalities and Injuries: An Analysis of the Relationship of Roadway, Driver, Vehicle, and Emergency Medical Services in Oregon Counties.
- Using Existing ITS Commercial Vehicle Operation (ITS/CVO) Data to Develop Statewide (and Bi-state) Truck Travel Time Estimates and Other Freight Measures .
- Research and Evaluation Lead, Community School and Traffic Safety Partnership, City of Portland.
- Update of Crash Reduction Factors for the Oregon DOT
- Validation of Freeway Travel Time Messages on Portland Freeways.
- Motor Carrier Enforcement's Role in Fuel Tax Evasion
- Enhancing the Oregon Crash Reporting Process: A Feasibility Assessment.
- A Comprehensive Assessment of Electronic Communications from Oregon Courts to the DMV.
- Understanding the Safety Effects of Roadway Illumination Reductions.
- www.its.pdx.edu.

Research Sponsors

- Oregon Transportation Research and Education Consortium.
- Oregon Department of Transportation.
- U.S. DOT and FHWA.
- City of Portland.
- TransNow.
- Foundation for Air Medical Research and Education.



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