



Oregon Transportation Research and Education Consortium

Year 2 Projects 2007-2008

As governed by our Strategic Plan, and after rigorous peer review of 82 submitted proposals, OTREC has selected the top 36 research, education and technology transfer projects for funding in 2007-2008.

Research

- 08-81 Socio-economic Effect of Vehicle Mileage Fees, Phase 2; Pls: McMullen, Zhang
- 08-91 Evaluation of the Oregon DMV At-Risk Driver Program, Phase 2; PI: Strathman
- 08-93 Analysis of TriMet Bus Operator Absence Patterns; PI: Strathman
- 08-98 Active Transportation, Neighborhood Planning and Participatory GIS, Phase 2; Pls: Schlossberg, Larco
- 08-102 Operational Analysis of Transit Bus Collisions; PI: Strathman
- 08-108 Empirical Observation of the Impact of Traffic Oscillations of Freeway Safety; Pls: Monsere, Ahn
- 08-115 Application of WIM Data for Improved Modeling, Design and Rating; Pls: Monsere, Higgins, Nichols
- 08-116 Road User Fee; PI: Rufolo
- 08-130 Value of Reliability; Pls: Bertini, Levinson
- 08-131 Oregon Freight Data Mart; Pls: Figliozzi, Bertini
- 08-133 Freight Distribution Problems in Congested Urban Areas: Fast and Effective Solution Procedures to Time-Dependent Vehicle Routing Problems; PI: Figliozzi
- 08-134 Practical Approximations to Quantify the Impact of Time Windows and Delivery Sizes on Freight VMT in Urban Areas; PI: Figliozzi
- 08-137 Dynamic Activity-Based Travel Forecasting System; PI: Gliebe
- 08-145 Assessment and Refinement of Real-Time Travel Time Algorithms for Use in Practice, Phase 2; Pls: Tufte, Ahn
- 08-147 Influence of Environmental Effects on Durability of CFRP for Shear Strengthening of RC Girders, Phase 2; PI: Higgins
- 08-148 Seismic Damage State Models for Oregon Bridges; PI: Dusicka
- 08-152 Overlooked Density: Re-thinking Transportation Options in Suburbia; PI: Larco
- 08-154 Food Delivery Footprint: Addressing Transportation, Packaging and Waste in the Food Supply Chain; Pls: Pullman, Brown, Marshall, Wakeland
- 08-155 Instrumentation for Mechanistic Design Implementation; PI: Scholz
- 08-156 Development of an Open Source Bridge Management System; PI: Scott
- 08-160 Long Term Evaluation of Individualized Marketing Programs for Travel Demand Management; Pls: Dill, Mohr
- 08-161 Hurricane Wave Forces on Highway Bridge Superstructure: Repair and Retrofit of Existing Bridges, Phase 2; Pls: Cox, Yim
- 08-163 No More Freeways: Urban Land Use-Transportation Dynamics without Freeway Capacity Expansion; PI: Zhang
- 08-176 Expanding Development of the Oregon Traffic Safety Data Archive; PI: Monsere
- 08-184 Healthy Communities, the Transportation-Land Use Connection and Children's Travel; Pls: Yang, Schlossberg
- 08-190 Using Archived ITS Data to Measure the Operational Benefits of a System-wide Adaptive Ramp Metering System; Pls: Bertini, Zhang
- 08-192 Evaluating the Effectiveness of the Safety Investment Program (SIP) Policies for Oregon; Pls: Monsere, Dixon
- 08-195 Freight Performance Measures: Approach Analysis; Pls: Zhang, Monsere
- 08-196 Access Management Best Practices Manual; PI: Karen Dixon

OTREC is a National University Transportation Center, and is a partnership between Portland State University, the University of Oregon, Oregon State University and the Oregon Institute of Technology

Education

- 08-97 Closing the Gap: Developing a Transportation Curriculum for the Oregon Young Scholars Program; PIs: Gary, Johnson
- 08-126 IBPI: Bicycle and Pedestrian Education Program; PI: Weigand
- 08-144 Traffic Engineering Training for Rural Communities; PI: Lindgren
- 08-187 Distribution Logistics Course; PI: Figliozzi

Technology Transfer

- 08-138 Oregon Transportation Planning Experience; PIs: Abbott, Lowry
- 08-173 Options for Integrating Urban Land Use and Travel Demand Models; PI: Gliebe
- 08-175 Increasing Capacity in Rural Communities: Planning for Alternative Transportation; PIs: Smith, Cook, Johnson

OTREC received a total of 82 proposals with a request of \$5.1 million for consideration for the 2007-2008 funding year. There were 48 unique proposers; 42 proposals with multiple principal investigators; and 13 were multi-campus. The diversity of the proposals submitted displays impressive breadth of discipline and demonstrates great collaboration between universities and with external agencies. As governed by the OTREC Strategic Plan, all proposals underwent a rigorous peer review process before a funding recommendation was made. Each proposal was reviewed by at least three expert reviewers, including one federal reviewer.

On September 7, 2007, the OTREC Executive Committee selected the top 36 research, education and technology transfer projects. We encourage those with proposals that were not selected but fit well with the OTREC theme of Advanced Technology, Integration of Land Use and Transportation, and Healthy Communities to strengthen the approach and consider resubmitting for the 2008-2009 funding year.

	Awarded	Submitted
Total Proposals	36	82
Research	29	61
Education	4	15
Tech Transfer	3	6
Proposers	36	48
Multi-campus	10	13
Multi-PI	18	42

About OTREC

OTREC is a National University Transportation Center created by Congress in 2005. A partnership between Portland State University, the University of Oregon, Oregon State University, and the Oregon Institute of Technology, OTREC is dedicated to stimulating and conducting collaborative multi-disciplinary **research** on multi-modal surface transportation issues; **educating** a diverse array of current practitioners and future leaders in the transportation field; and encouraging **implementation** of relevant research results. Through collaboration and partnerships with transportation agencies, industry, and other universities in the Northwest, OTREC's theme focuses on advanced technologies; integration of land use and transportation; and healthy communities.

Contact Us

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