

OTREC

Year 6 Projects 2011-2012

As governed by our Strategic Plan, and after rigorous peer review of 42 submitted proposals, OTREC has selected the top 15 research, education and technology transfer projects and 5 continuing projects for funding in 2011-2012.

RESEARCH

- Development of Pedestrian Planning Tools for Use in Travel Demand Modeling, Kelly Clifton
- Wider Dissemination of Household Travel Survey Data Using Geographical Perturbation Methods, Nebahat Noyan
- Operational Guidance for Bicycle-Specific Traffic Signals, Christopher Monsere and Miguel Figliozzi
- The Application of Smart Phone Truck Data to Develop Freight Performance Measures and Support Transportation Planning, Miguel Figliozzi
- Promoting Active School Travel by Making it Cool: a quasi-experimental study using Boltage, Yizhao Yang, Ihab Elzeyadi, Lynn Weigand, Noreen McDonald, and William Harbaugh
- Sustainable Cities Initiative, Robert Liberty, Nico Larco, and Marc Schlossberg
- Assessing Transit Agencies' Climate Change Adaptation Needs, John MacArthur, James Long, Robert Parker
- Transportation Electrification Initiative for the Oregon University System, John MacArthur,
- Bus Safety Performance Monitoring and Analysis, James Strathman
- Relocation of Homeless People from ODOT Rights-of-Way, Ellen Bassett and Andree Tremoulet
- Commute Friendly Gas-Electric Hybrid Vehicle, James Long and Hugh Currin
- Integrated Multimodal Transportation, Air Quality, and Livability Corridor Study Phase II, Miguel Figliozzi, Linda George, and Christopher Monsere
- Improved Pedestrian Safety at Signalized Intersections Operating the Flashing Yellow Arrow, David Hurwitz and Christopher Monsere

CONTINUING PROJECTS

- Oregon Modeling Collaborative, Kelly Clifton
- Tools for Gusset Plate Evaluation, Phase 2: Strengthening, Chris Higgins and Peter Dusicka
- Reducing Seismic Risk to Highway Mobility: Assessment and Design Tools for Pile Foundations Affected by Lateral Spreading, Scott Ashford and Michael Scott
- Prioritization for Seismic Retrofit with Statewide Transportation Assessment, Peter Dusicka
- Increasing Bicycling for Transportation: The Role of Cyclist Type and Infrastructure, Jennifer Dill

EDUCATION

- An Activity-Based Learning Module for Human Factors in the Introductory Transportation Engineering Course, David Hurwitz

TECHNOLOGY TRANSFER

- Pedestrian and Bicycle Master Planning: Training for Practitioners, Lynn Weigand

OTREC received a total of 42 proposals with a request of \$4.1 million for consideration for the 2011-12 funding year. There were 49 different investigators; 26 proposals with multiple principal investigators; and 7 were multi-campus. A total of 26 researchers received funding. Of this, 9 were new OTREC researchers. Disciplines represented in the upcoming year include: transportation engineering, geotechnical engineering, structural engineering, urban studies and planning, software and embedded systems, housing, economics, mechanical engineering, and community development.

Table 1: Project selection summary

	Awarded	Submitted
Total Proposals	20	42
Research	13	31
Education	1	2
Tech Transfer	1	7
Continuing research projects	5	-
Researchers	26	49
Multi-campus	3	26
Multi-PI	9	7

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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