

PORTLAND STATE UNIVERSITY ITS LAB

The Portland State University ITS Lab is a leader in ITS research in Portland, Oregon, and will be featured as a Technical Tour at the 2007 District 6 Annual Meeting in July. Faculty and students in the Lab study how ITS can improve transportation efficiency and safety throughout the Portland metropolitan region, the state of Oregon and beyond. The ITS Lab has many transportation agency and industry partners, and collaborates on a variety of innovative projects. Located in the new PSU engineering building in downtown Portland, the ITS Lab includes work stations for students and visiting faculty and researchers, as well as consoles and displays for real-time traffic monitoring. Over the past seven years, the ITS Lab's research program has grown to almost \$1M in annual research funding under Dr. Robert Bertini, Dr. Chris Monsere and Dr. Kristin Tufte. The Lab employs up to 25 undergraduate and graduate students from various majors, and has acquired a range of research tools, equipment and software. Students present their research results at regional, national and international conferences and symposia, and are frequently co-authors on peer-reviewed journal and conference publications. Recently, ITS Lab students and faculty presented nine peer-reviewed papers at the 86th Annual Meeting of the Transportation Research Board in Washington, D.C.

Research projects include work with the Oregon Department of Transportation (ODOT), BMW Group, FHWA, TriMet, the City of Portland, Kittelson and Associates, Inc., and DKS Associates, among others. Research topics include benefits of ITS investments, comparison of German and U.S. traffic sensor data, evaluation of video recognition travel time, speed reduction technologies, crash



New Engineering Building at PSU - home of the ITS Lab

reduction factors, transit buses as traffic probes, ITS commercial vehicle operations, and community and school traffic safety, to name a few. An additional project, funded by the National Science Foundation, supports work by Dr. Bertini, staff and students to develop a system to implement the U.S. National ITS Architecture's Archived Data User Service for the Portland metropolitan region. Called PORTAL (Portland Oregon Regional Transportation Archive Listing), the system archives the Portland region's freeway loop detector data at its most detailed level and also archives area weather data. Future work will expand the capabilities of the system and include multimodal data sources from both Oregon

and Washington. PORTAL research is done in close cooperation with ODOT, Metro, the City of Portland, TriMet and other regional partners. More information can be found on the PORTAL web: <http://portal.its.pdx.edu>

PSU offers MS, MEng, PhD, dual masters and a graduate certificate with specialization in transportation. The ITS Lab has graduate assistantships available for qualified students, and a new University Transportation Center based at PSU (the Oregon Transportation Research and Education Consortium) will further increase research and education opportunities for students. Find out more about ITS Lab research, faculty, students and programs at <http://www.its.pdx.edu>.

PROFESSIONAL CERTIFICATION EXAMS OFFERED FOR FIRST TIME IN OREGON

On Saturday July 14, 2007, ITE will be hosting the certification exams in Portland, Oregon just before the District 6 Annual Meeting on July 15-18. The exam will be at Portland State University and will include the PTOE (Professional Transportation Operations Engineer) and the three other recent exams provided by the Transportation Professional Certification Board:

PTP – Professional Transportation Planner
 TOPS – Traffic Operations Practitioner Specialist
 TSOS – Traffic Signal Operations Specialist

Registration information can be found at: www.tpcb.org. There is room for 30 to 50 people, so early registration is advised.