

## Required Information/Format for Abstracts

Presentation Title:	<b>Blueprint for Evaluation and Improvement of Transit Signal Priority: A Portland Case Study</b>
Topic/Subtopic (from list):	Transit Planning, Design or Operations/Priority Treatments at Traffic Signals
Lead Author:	Thomas J. Kimpel
Lead Author Contact Info:	
Address	Center for Urban Studies Portland State University P.O. Box 751 Portland, OR 97207-0751
Telephone	503-725-4249
Fax	503-725-5950
E-mail	<a href="mailto:kimpelt@pdx.edu">kimpelt@pdx.edu</a>
Other Authors:	Robert L. Bertini (Portland State University) Peter Koonce (Kittelsohn & Associates, Inc.)

### Abstract Text (250 words maximum):

Transit signal priority (TSP) is an important component of an integrated urban transportation system. As with any new system component, an ongoing evaluation program is critical to the measurement of its success and enables the continuous improvement of the system's performance. This paper describes the results of a collaborative process including the City of Portland, TriMet, Kittelson & Associates and Portland State University in the evaluation of Portland's TSP system. Findings from an analysis of changes in bus running times, on-time performance, and excess passenger wait times due to the implementation of TSP are presented for several transit corridors in Portland. Further, the paper describes the value of establishing an automated operations data collection system, using TriMet's bus dispatch system as an example. The paper also discusses the importance of data archiving and long term, regular monitoring of the TSP system. The paper concludes with a discussion of how such a monitoring program could be used to consider a range of potential strategies for improving transit operations, including stop location/design, queue jumps, transit-only phasing, schedule changes and operator training.