

# Abstract Submission Form



## 2010 ITE Western District Annual Meeting

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Paper Title:

Changes Coming in the 2010 Edition of the Highway Capacity Manual

Relevant Session/Topic:

HCM 2010

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Abstract: 250 words maximum. Use 12 point Arial font, single space.

The 2010 Highway Capacity Manual (HCM) makes fundamental, technical, and format changes to the Year 2000 HCM. The format changes are discussed in a separate presentation by Mark Vandehey. The fundamental and technical changes are described in this presentation. Details on the technical changes in the roundabout analysis method are discussed in a separate presentation by Lee Rodegerdts.

The fundamental change in the HCM for 2010 is in how it treats microsimulation. The previous HCM ignored it. The 2010 edition treats microsimulation as a tool to work in parallel with the HCM and as a supplement to the HCM for situations where the HCM method is not sufficient. The HCM 2010 in addition, goes “under the hood” and explains why there are differences between HCM analyses and microsimulation. It points out the conditions where microsimulation output cannot be directly used to compute level of service.

The HCM 2010 for the first time introduces the topic of Active Traffic Management and how it may be used to improve facility performance. It describes freeway ramp metering, managed lanes, congestion pricing, traveler information services, and speed harmonization strategies and how they can be used to affect the demand, the capacity, and the operation of highway facilities.

The HCM 2010 also makes many technical refinements to the analysis of freeways and urban streets. A new technical procedure is provided for freeway weaving. New technical procedures have been developed for urban streets, roundabouts, and signalized intersections at the foot of freeway ramps. The signalized intersection method has been refined. The all-way stop procedure has been extended to 6 lane facilities.

**Abstracts are due by 5:00pm on Monday, January 4, 2010.**

e-mail your abstracts to:

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