

April 7, 2004

**SUMMARY PROGRESS REPORT
SIMULATION MODELING SUBCOMMITTEE
TRB FREEWAY OPERATIONS COMMITTEE**

The purpose of this document is to provide a summary progress report on behalf of the Simulation Modeling Subcommittee to the TRB Freeway Operations Committee Members. The Simulation Modeling Subcommittee has been organized into seven task groups and a summary of each task group is provided in the following paragraphs. A more extensive progress report from the leader of each of the seven task groups will also be distributed with this summary. Please give special attention to the requests for your input as noted by underlining in this document. We need your help and guidance.

**TASK GROUP #1
IDENTIFY AND REVIEW RECENT FREEWAY APPLICATIONS
OF SIMULATION MODELS**

Brian Smith and Lou Neudorff are members of this task group and Brian Smith has submitted a progress report for this group. Particular focus will be given to quality applications and orientation to the work of the Freeway Operations Committee.

This task will be undertaken in two phases: inventory and review. The inventory will be undertaken between now and July 2004 with several parallel efforts being undertaken simultaneously. The review phase will begin soon thereafter.

One effort will be the distribution of an email message in the very near future to Committee members requesting information on recent freeway applications. Request to Committee Members: Please respond promptly to this request.

**TASK GROUP #2
DEVELOP RESEARCH PROBLEM STATEMENT AND/OR
SYNTHESIS STATEMENT TO ADVANCE WORK OF
SUBCOMMITTEE**

Jim Kerr is the leader of this task group and he has submitted a progress report for this group. Jim will be coordinating with Jon Obenberger and Ron Sonntag in this effort. As indicated in the title of the task, the objective of this group is to prepare a research problem statement and/or synthesis statement that would advance freeway simulation modeling and submit it to the Freeway Operations Committee at its midyear meeting for their consideration.

The topic proposed for the research problem statement is “Use of Probe Data as an Input for Freeway Simulation”. Request to Committee Members: Please suggest additional topics for consideration.

TASK GROUP #3
PROPOSE AND PLAN A CONFERENCE SESSION FOR THE TRB
JANUARY 2005 ANNUAL MEETING

Abdul-Rahman Hamad is the leader of this task group and he has submitted a progress report. The goal of this task group is to propose and plan a conference session for the TRB January 2005 annual meeting and seek Committee support at its midyear meeting. Abdul-Rahman will be coordinating his efforts with Dan Baxter.

One effort will be the distribution of an email message in the very near future to Committee members soliciting conference topic ideas from the Freeway Operations Committee. Request to Committee Members: Please respond promptly to this request.

TASK GROUP #4
DEVELOP LIAISON WITH OTHER COMMITTEES AND GROUPS
INTERESTED IN FREEWAY SIMULATION MODELING

Mousa Abbasi is the leader of this task group and a progress report has been submitted. Thus far, liaison has been established with key members of the HOV Systems, Pricing, Traffic Flow and Characteristics, Highway Capacity and Quality of Service, and Traffic Signal Systems TRB Committees.

One effort will be the distribution of an email message in the very near future to Committee members soliciting their membership affiliations and requesting suggestions of other groups that might be contacted. Request to Committee Members: Please respond promptly to this request.

TASK GROUP #5
DEVELOP TWO HIGH-QUALITY FREEWAY SIMULATION
APPLICATION CASE STUDIES

Panos Prevedouros and Bill Halkias are members of this group and they have submitted a progress report. This group thus far has identified two freeway segments for the case studies and is in the process of procuring at least one microscopic and one macroscopic simulation model. Their goal is to collect and examine data for one of the freeway sites and to undertake base case simulations by the time of the Committee's midyear meeting for the other site.

TASK GROUP #6
WILLINGNESS TO PARTICIPATE IN THE JANUARY 2005 JOINT
SUNDAY AFTERNOON SIMULATION MODELING WORKSHOP

Dolf May is the leader of this task group and a progress report has been submitted. Contact has been made with the Chairs of the TRB Committees who have participated in previous joint workshops indicating our Committee's willingness to participate in the January 2005 Joint Workshop. Positive responses have been received from two Committee Chairs and at their request, possible workshop topics have been suggested.

TASK GROUP #7
ACQUIRE INFORMATION FROM PUBLIC SECTOR
PRACTITIONERS REGARDING USE OF FREEWAY SIMULATION
MODELS

George Saylor is the leader of this task group and a progress report has been submitted. A two-part survey instrument has been developed and distributed to several groups. It has also been placed on the Freeway Operations Committee's website seeking Committee member responses. Request to Committee Members: Please respond promptly to this survey instrument on the Committee's website <<http://depts.washington.edu/ahb20/survey>>.

CLOSURE

Again, to all Committee Members: please respond promptly to the Subcommittee's requests for your help and guidance as note above by underlining. We need your help and guidance. Thanks in advance