

AGENDA



MONDAY

Symphony Foyer

Registration

1:00 – 5:00 PM

Symphony 4, 5, 6, & 7

Welcome Reception

5:00 – 8:00 PM

TUESDAY

Symphony Foyer

Registration

7:00 AM – 5:00 PM

Symphony 4, 5, 6, & 7

Continental Breakfast

7:00 – 9:00 AM

Symphony 2&3 General Session

8:45 – 10:00 AM

Moderator: M.R. Poole, NC DOT

Norris Tolson, North Carolina Secretary of Transportation

Nicholas Graf, FHWA, North Carolina Division Administrator

Jane Patterson, Office of the Governor, Senior Advisor – Science & Technology

North Carolina & the Information Highway

Symphony 4, 5, 6, & 7

Break

10:00 – 10:30 AM

Symphony 2&3 General Session

10:30 – 11:30 AM

Moderator: M.R. Poole, NC DOT

Gary Maring, FHWA, Office of Policy

Highway Information Management

William Harbour, Transport Canada

Canadian Roadside Survey

Charles Brown, NC DOT

Use of GPS for Navigation in North Carolina

Mecklenburg Ballroom

Luncheon

11:30 AM – 1:30 PM

Tony Kane, Executive Director, Federal Highway Administration

Keynote Address

Concurrent Sessions

1:30 – 3:00 PM

Carolina C

Session 1A: Truck Concerns

Moderator: Pat Strong, NCDOT

Fred Hanscom, Transportation Research Corp.

Developing Measures of Effectiveness for Truck Weight Enforcement Activities

James March, FHWA

The Highway Cost Allocation Study and the Truck Size and Weight Study

John Kinateder, Battelle

Approach to Data Collection for Evaluating Safety Benefits of CVISN

Symphony 1

Session 1B: Traffic Data Screening Mechanisms

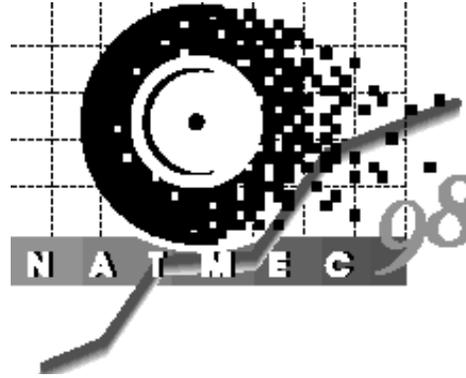
Moderator: Mike Shamma, NYSDOT

Mark Flinner, Minnesota DOT

Traffic Data Editing Pooled-Fund Project

Henry Horsey, Intelligent Decision Technologies

The ATR Expert System



TUESDAY (continued)

Symphony 2&3

Session 1C: GPS Applications
Moderator: Elaine Murakami, FHWA
 Dave Wagner, Battelle
Truck Activity Survey
 David Roden, TransCore
Travel Speed Studies
 Randy Guensler & Jean Wolf, Georgia Tech
Travel Behavior and Air Quality
 Elaine Murakami, FHWA
GIS Case Studies in Transportation Planning

Symphony 4, 5, 6, & 7 **Break**

3:00 – 3:30 PM

Concurrent Sessions

3:30 – 5:00 PM

Carolina C

Session 2A: Weigh-in-Motion Issues
Moderator: William Tansil, Michigan DOT
 Anne-Marie McDonnell, Conn. DOT
Installation and Evaluation of Weigh-in-Motion Utilizing Quartz-Piezo Sensor Technology
 Richard Rogers, Texas DOT
A State's Experience with ASTM E1318 for Acceptance Testing & Calibration of WIM Systems
 Wiley D. Cunagin, University of North Texas
Implementable Calibration Procedures for Weigh-in-Motion Systems
 Robert Whitford, Purdue University
Alaska's Proposed Plan for Weigh-in-Motion

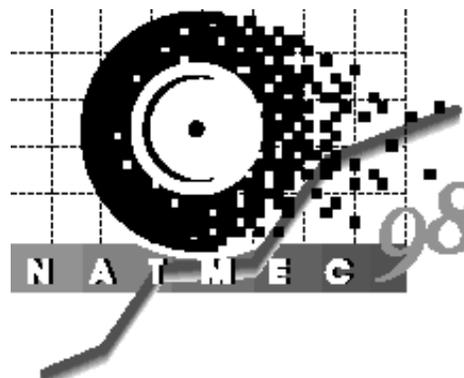
Symphony 1

Session 2B: VMT Estimation Methods : Sharing Lessons Learned
Moderator - Pat Hu, Oak Ridge National Laboratory
 Rob Robinson, Illinois DOT
A State's Perspective : Illinois
 Harshad Desai, Florida DOT
A State's Perspective : Florida
 Mark Flinner, Minnesota DOT
A State's Perspective : Minnesota
 Panel Discussion
Ed Christopher, Chicago Area Transportation Study
Tony Esteve, FHWA

Symphony 2&3

Session 2C: Travel Time and Speed Data Collection and Applications
Moderator: Shawn Turner, Texas Transportation Institute
 Shawn Turner, Texas Transportation Institute
Overview of the Travel Time Data Collection Handbook
 Michael Kimbrel, Hampton Roads Planning District Commission
Regional Travel Time Data Collection for the Hampton Roads CMS
 Michael DuRoss, Delaware DOT
Application of GPS for Statewide Travel Time Data Collection
 Rick Dowling, Dowling Associates

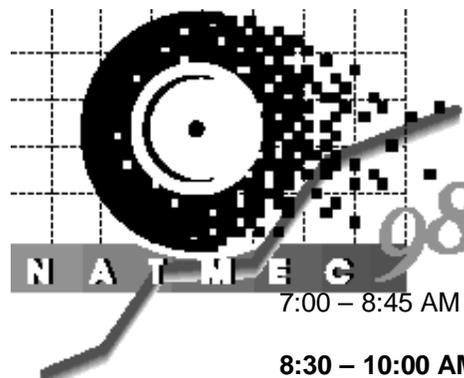
Obtaining Freeway Densities, Speeds, and Volumes from Aerial Photography



WEDNESDAY

<i>Symphony 4, 5, 6, & 7</i>	Continental Breakfast	7:00 – 9:00 AM
<i>Symphony 4, 5, 6, & 7</i>	Field Day Overview	8:00 – 9:00 AM
	Field Demonstrations	9:00 AM – 1:30 PM
<i>Symphony 4, 5, 6, & 7</i>	Lunch	11:30 AM – 1:30 PM
<i>Executive Boardroom</i>	Software Demonstrations	1:00 – 2:00 PM
	Mark Hallenbeck, TRAC <i>Freeway Performance Evaluation Using ITS Data</i>	
	Ralph Gillmann, FHWA <i>Vehicle Travel Information System (VTRIS)</i>	
	<u>Mini-Courses</u>	2:00 – 3:30 PM
<i>Symphony 1</i>	Session 3A: Introduction to GIS for Transportation (Part 1) <i>Ben Williams, FHWA and Simon Lewis, GIS/Trans</i>	
<i>Symphony 2</i>	Session 3B: An Overview of GPS (Part 1) <i>Gary Thompson, NC Geodetic Survey</i>	
<i>Symphony 3</i>	Session 3C: National ITS Architecture <i>Bob Glass, Jet Propulsion Lab</i>	
	<u>Mini-Courses</u>	3:30 – 5:00 PM
<i>Symphony 1</i>	Session 4A: Introduction to GIS for Transportation (Part 2) <i>Ben Williams, FHWA and Simon Lewis, GIS/Trans</i>	
<i>Symphony 2</i>	Session 4B: An Overview of GPS (Part 2) <i>Gary Thompson, NC Geodetic Survey</i>	
<i>Symphony 3</i>	Session 4C: The NTCIP Standard <i>Bob Derocne, Peek-Transit and Rick Stolowski, Peek-Traffic</i>	

THURSDAY



Symphony 4, 5, 6, & 7 **Continental Breakfast**

7:00 – 8:45 AM

Concurrent Sessions

8:30 – 10:00 AM

Symphony 1

Session 5A: State / Provincial Traffic Data Systems

Moderator: David White, NCDOT

Marina Melchiorre et al, University of Manitoba

Manitoba Highway Traffic Information System Development

Allan Heckman, Missouri DOT

The Missouri Transportation Management System

Cliff Braam, NC DOT

North Carolina's Highway Safety Information Management System (HSIMS) Project

Tom Parker, NC DOT, and Ed Sirgany, City of Durham

The Durham Computerized Signal System

Symphony 2

Session 5B: Travel Monitoring System / Traffic Monitoring Guide

Moderator: Tony Esteve, FHWA

Mark Hallenbeck, University of Washington

Traffic Monitoring Guide Update Research

Tim Thex, Oregon DOT

Oregon TMS Coordination with Lower Jurisdictions

Fred Orloski, FHWA, Region 1

Northeast Data Partnering

Pat Hu, Oak Ridge National Lab.

Northeast Vehicle Classification and Weigh-in-Motion Research Findings

Symphony 3

Session 5C: New Technology to Collect Freight Data

Moderator: Russ Capelle, Bureau of Transportation Statistics

Kurt Heidtman, Battelle

New Technology for Truck Data Collection and Analysis

Marsha Anderson, StreetSmarts

Hand-held Computers in Freight Surveys

Jennifer Walton, Kentucky Transportation Cabinet

Data Collection Through ITS/CVO Initiatives

Symphony 4, 5, 6, & 7 **Break**

10:00 – 10:30 AM

Concurrent Sessions

10:30 – 12:00 Noon

Symphony 1

Session 6A: Truck Weight Data

Moderator: Pat Strong, NCDOT

David Jones, FHWA

An Overview of the Truck Weight Study

Rick Reel, Florida DOT

Traffic Survey Processing Software

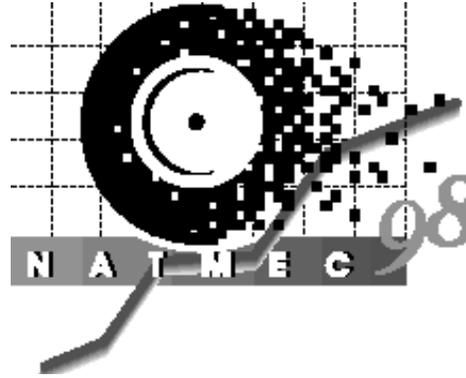
Robert Whitford, Purdue University

A Strategy for Handling the Statistics of Truck Weight Data in Alaska

Herbert Southgate, Consultant

Interpretation of Computer Analyses of Traffic Data Using FHWA's

VTRIS Computer Program



THURSDAY (continued)

Symphony 2

Session 6B: ITS as a Data Source

Moderator: Bill McCall, Iowa State University
 John Hamrick, Idaho Transportation Dept. (Retired)
Idaho Transportation Department Case Study
 N. Robert Bostrom, Kentucky Transportation Cabinet
Kentucky Transportation Cabinet Case Study
 Mark Hallenbeck, University of Washington
Washington State DOT Case Study

Symphony 3

Session 6C: GIS for Transportation

Moderator: Wende O'Neill, Bureau of Transportation Statistics
 Steve Gordon, Oak Ridge National Laboratory
The Location Referencing Message Specification and the Public Section Linear Datum
 Paula Okunieff, Cambridge Systematics
An Overview of TCIP Standards for Spatial Representation of Objects
 Steve Laffey, Chicago Area Transportation Study
(Title to be announced)
 Steve Perone, Metro Portland
Integrating Disparate Transportation Systems with GIS - Experiences at Metro, Portland OR

Carolina A, B, & C

Luncheon

1

Noon – 2:00 PM

Joseph I. Peters, ITS Joint Program Office, USDOT
Keynote Address

Concurrent Sessions

2:00 – 3:30 PM

Symphony 1

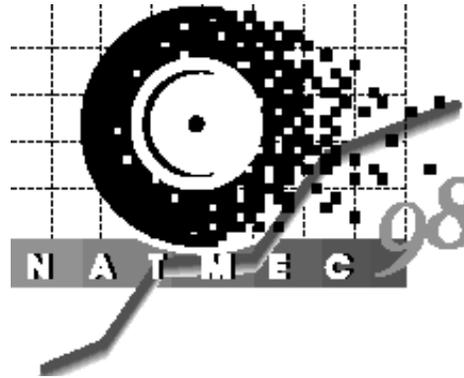
Session 7A: States' Successful Practices WIM Handbook

Moderator: Bill McCall, Iowa State University
 Panel Discussion
Mark E. Hallenbeck, University of Washington
Glenda Fuller, Idaho Transportation Dept.
Andrew Pratt, International Road Dynamics, Inc.
Ronald White, Electronic Control Measurement, Inc.

Symphony 2

Session 7B: The Uses of ITS Data for Transportation Planning in Metropolitan Areas

Moderator: Marsha Anderson, Street Smarts
 Allan DeBlasio, Volpe National Transportation Center
Mainstreaming ITS into the Transportation Planning Process
 Andy Meese, Metro Washington COG
Inside View of ITS within an MPO
 Joseph Mergel, Volpe National Transportation Center
The Capacity of ITS to Provide System Performance Data
 Shawn Turner, Texas Transportation Institute
ITS Data Management and Application
 Ed Christopher, Chicago Area Transportation Study
Using ITS Data in the Transportation Planning Context



THURSDAY (continued)

Symphony 3

Session 7C: Non-Intrusive Detection Technology

Moderator: William Grush, FHWA

Erik Minge, SRF Consulting

What Are Non-Intrusive Detection Technologies?

Charles Harlow, Louisiana State University

Vehicle Identification and Classification System with Range Sensors

James Kranig, Minnesota DOT

Evaluation of Non-Intrusive Detection Technologies for Traffic Detection and Data Collection

Symphony 4, 5, 6, & 7 **Break**

3:30 – 4:00 PM

Concurrent Sessions

4:00 – 5:30 PM

Symphony 1

Session 8A: Lessons Learned from the LTPP Project

Moderator: Barbara Ostrom, EBA Engineering

Barbara Ostrom, EBA Engineering

LTPP Introduction and Overview

Randy Plett, ITX-Stanley

Revisions in LTPP Traffic Data Sampling

Mark Gardner, Brent Rauhut Engineering

Calibration Needs for LTPP Traffic Data

Richard Rogers, TX DOT and Anne-Marie McDonald, Connecticut DOT

State WIM Calibration Experiences

Symphony 2

Session 8B: Emerging Issues: ITS as a Data Source

Moderator: Rob Puentes, ITS America

Rich Margiotta, SAIC

Archived Data User Service for Intelligent Transportation Systems

Robert M. Winick, Consultant

Using ITS-Derived Data for Transportation Planning, Programming, and Operations

Shawn M. Turner, Texas Transportation Institute

Development of an ITS Data Management System

James A. Bunch, Donald Roberts, Karl Wunderlich, Mitretek Systems

Development of Representative Day Scenarios to Capture the Impacts of Variation in Conditions in Transportation and ITS Planning

Symphony 3

Session 8C: Data Collection Methodology

Moderator: Terry Hopkins, NC DOT

Kurt Heidtman, Battelle

Improved Vehicle Occupancy Data Collection Methods

Kurt Heidtman, Battelle

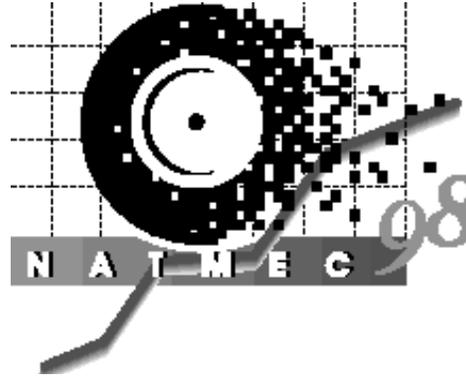
Multimodal Measures of Mobility

Mark McCord, Ohio State University

Incorporating Satellite Imagery in Traffic Monitoring Programs

Mecklenburg Ballroom **Dinner**

7:00 – 10:00 PM



FRIDAY

Symphony 4, 5, 6, & 7 **Continental Breakfast**

7:00 – 9:00 AM

Concurrent Sessions

9:00 – 10:30 AM

Symphony 1

Session 9A: Fiber Optics

Moderator: Dick Livingston, FHWA

Jeff Muhs, Oak Ridge National Lab.

A New WIM Demo Project

Paul Cosentino, Florida Institute of Technology

Using Microbend Fiber Optic Technology for Traffic Classification and Weigh-in-Motion

Sandee Vohra, Naval Research Laboratory

Application of Bragg Grating Fiber Optics to Truck Weight Measurement

Symphony 2

Session 9B: Technology and Applications

Moderator: David White, NCDOT

Charles Tweedy, Orincon Corporation

An Advanced Preformed Inductive Loop Sensor

Wiley Cunagin, University of North Texas

Testing Axle Sensors for Toll Facility Applications

John Klemunes, FHWA

Accuracy of Traffic Load Monitoring and Projections Pooled-Fund Study

Ralph Gillmann, FHWA

National Vehicle Detector Test Center Pooled Fund Study

Jim Elliott, Los Alamos National Laboratory

Static Weight Variations of Archived Data and WIM

Symphony 3

Session 9C: Integrated Transportation Information System – The Way of the Future

Moderator: Ben Williams, FHWA

Simon Lewis, GIS / Trans

Integrated Transportation Information System - An Overview

Anthony Pietropola, Penn DOT (retired)

An Approach for the Developing of a GIS Strategic Plan for the 21st Century

Tom Eldrige, TN DOT

Tennessee Roadway Information Management System (TRIMS)

Joe Bryant, Reebie Associates

Visual Freight Data Base

Symphony 2 & 3

General Session

11:00 AM – Noon

Moderator: M. R. Poole, NC DOT

Ralph Gillmann, FHWA

European Activities on WIM: COST 323 and WAVE

Ralph Gillmann, FHWA

Discussion of Travel Monitoring Research Needs

NC DOT

Prizes and Wrap-up