1st International Symposium on
Freeway & Tollway Operations

Program of Sessions

Divani Caravel Hotel
Athens, Greece
June 4-7, 2006
The Symposium brings together freeway and tollway operators, practitioners and researchers specializing in freeway, HOV, and tollway operations. The objectives of the Symposium are:

- To capture the state of the practice in freeway and tollway operations.
- To identify innovative strategies and techniques to improve the proactive management and control of traffic.
- To explore the potential benefits of using managed lanes, tolling, pricing, and other strategies to improve traffic operations on congested freeways.

VENUE AND COSTS
The Symposium will be held at the five-star Caravel Hotel (www.divanicaravel.gr) in central Athens. Room rates are 150€ (euro) for 1-bed rooms and 160€ for 2-bed rooms; prices include breakfast and taxes.

Registration fees are as follows:
- 200€ -- participant early registration (till March 30)
- 250€ -- participant regular registration
- 100€ -- presenter registration
- 100€ -- one day registration

Online registration at: www.citycongress.com/1_ISFO
Noon - 4:30 PM: TRB Freeway Operations Committee AHB20 mid-year meeting – Illissos

4:30 - 5:30 PM: Bus transfer from Caravel Hotel to Attiki Odos (Attica Tollway) Headquarters

5:30 - 8:00 PM: Technical Tour of Attiki Odos (Attica Tollway) Headquarters, Maintenance Yards and Traffic Management Center

8:30 - 11:00 PM Welcome reception at Caravel Hotel

Monday, June 5

10:00 AM -12:30 PM → Opening Ceremony
Master of Ceremonies: Bill M. Halkias, CEO, Attikes Diadromes, SA

12:30 PM - 2:00 PM → Hosted Luncheon & keynote address

2:20-2:30 PM Opening of Distinguished Sessions: Panos D. Prevedouros, University of Hawaii, USA

2:30-4:00 PM (Macedonia A)
US Session: Improving Mobility and Managing Congestion
Moderator: Phil Masters, Ontario Ministry of Transport, Canada
Improving Mobility and Managing Congestion – Future Directions in the US, Jon Obenberger, FHWA
GoCalifornia: A Mobility Action Plan for California, 038, Randell H. Iwasaki, CALTRANS, USA
Northern Virginia Experiences with Public–Private Partnerships: I-95 and the Capital Beltway, Mohammed Mirshahi, Virginia DOT, USA
Turnpikes and Tollroads in Texas, 059, Chris Poe, Texas Transportation Institute, USA

4:15-5:45 PM (Macedonia A)
IBTTA Session: Improving Policies, Practice and People
Moderator: Patrick Jones, IBTTA
The Worldwide Mission of IBTTA, Santiago Corral, Autopista Vasco-Aragonesa, C.E.S.A and IBTTA President, Spain
A Focus on Safety at Florida’s Turnpike Enterprise, James L. Ely, Florida’s Turnpike Enterprise and IBTTA First VP, USA
A New World of Finance in Transportation, Susan Buse, North Texas Tollway Authority and IBTTA Second VP, USA
Spain’s Via-T and Toll Road Interoperability in Europe, Antonio Diez de Rivera, ASETA and IBTTA International VP, Spain
Leveling the Playing Field for Success and Advancement in Transportation, Mary Jane O’Meara, Tobin Memorial Bridge, Massachusetts Port Authority and IBTTA Past President, USA

6:00-7:30 PM (Macedonia A)
ASECAP and EU Session: Priorities in Europe
Moderator: Bill M. Halkias, Attikes Diadromes SA, Greece
Introducing the Highways Agency Traffic Officer Service, Rodney Brown and Robert Castleman, Highways Agency, UK
Make TEN-T Motorways an Easy Way, Jacques Boussuge and Jean Mesqui, ASFA, France
Towards Interoperability of Electronic Fee Collection Systems in Europe, Philippe Hamet, Direction Générale pour les Transports et l’Energie, Belgium
EU Orientations: ASECAP Point of View: A Brief Reflection, Kalistratos Dionellis, ASECAP, Belgium
Traffic Safety and Toll Roads. The expansion into Eastern Europe, Tony Pearce, International Road Federation, Switzerland

Formal business attire is suggested for the Monday program. Business casual (no neck tie) attire is suggested for the rest of the program.
TRACK 1: Expressway Management and Congestion Solutions

**Moderator:** Khani Sahebjam, Minnesota DOT, USA

**A Ramp-Metering Algorithm Based on Probabilistic Breakdown,** 144

Peng Lin, Maryland State Highway Administration, USA, Lily Eleftheriadou and Alexandra Kondyli, University of Florida, USA

**Ramp Control Effectiveness in Minnesota: Long Term Perspectives and Recent Developments,** 147

Panos G. Michalopoulos and John Hourdos, University of Minnesota, USA

**Analysis of Benefits and Costs from Ramp Metering Implementation,** 168

Virginia P. Sisiopiku, University of Alabama at Birmingham, USA

**Freeway Speeds and Variable Speed Limits**

11:00 AM - 12:30 PM

**Moderator:** Alexander Skabardonis, University of California-Berkeley, Institute of Transportation Studies, USA

**Measuring the Impacts of a Variable Speed Limit System on a German Motorway,** 109

Robert L. Bertini and Steven Boice, Portland State University, USA, and Klaus Bogenberger, BMW Group, Germany

**Driver Behaviour and Safety Performance on Freeway Sections and Ramp Terminals,** 136

Yasser Hassan, Carleton University, Canada

**Driving Speed and the Interaction between Incident Response Plans and Speed on Attica Tollway,** 141

Pantelis Kopolias, Fanis Papadimitriou, and Aggeliki Atsali, Attikos Diadromes, SA, Greece

**Speed Limits and Speed Choices: Planning Perspectives and Drivers’ Attitudes,** 183

Petros Vythoulkas, Vasilios Psarianos, and Pavlos Chorianopoulos, National Technical University of Athens, Greece

**Congestion and Bottlenecks**

1:30 PM - 3:00 PM

**Moderator:** Rodney Brown, Highways Authority, UK

**Optimizing the Existing Infrastructure by Controlling Congestion and Traffic Flow on a Heavily Trafficked Motorway: The Successful Challenge of ASF,** 145

Mathieu Lisbonis, ASF, France

**Framework for Analysis of Freeway Bottlenecks,** 169

Alexander Skabardonis, University of California, Berkeley, Institute of Transportation Studies, USA

**Advanced Motorway Traffic Modeling, Simulation, Surveillance and Control Strategies,** 355

Markos Papageorgiou, Yibing Wang, Ioannis Papamichail, and Elias Kosmatopoulos, Technical University of Crete, Greece, and Apostolos Kotsialos, Durham University, UK

**The Empirical Assessment of Traffic Operations: What We Have Learned about Highway Congestion,** 182

Pravin Varaiya, University of California, Berkeley, USA

**Traffic Management Tools and Centers**

3:30 PM - 5:00 PM

**Moderator:** Panos C. Papadakos, NAMA Consulting Engineers and Planners SA, Greece

**Benefit-Cost Analysis of the SMART SunGuide Freeway Management Operations in Fort Lauderdale, Florida,** 123

Steve Corbin and Dong Chen, Florida DOT, USA, Mohammed Hadi and Chengjun (Jim) Zhan, Florida Int’l University, USA

**An Artificial Neural Network Model for Evaluating Workers’ Performance at Tollbooths,** 125

Marcelo Leismann de Oliveira and Helena Beatriz Bettela Cybis, Federal University of Rio Grande do Sul, Brazil

**GIS for Management and Monitoring: The Example of Attica Tollway,** 139

George Kiousis and Georgia Gania, Attikes Diadromes, SA, Greece, and Athenasiog Doganis, Terra Ltd., Greece

... session continued across...
TRACK 3: Technologies and Issues for Operations and Control Centers

Location: Kozani

Integrated Toll and Traffic Management
9:00 AM - 10:30 AM

Moderator: George Kiousis, Attikos Diadromes, SA, Greece

J. Tzoumanikis, Hellenic Sugar Factory, Greece

Early Bird: Agency Approaches to Congestion Management
9:00 AM - 10:30 AM

Moderator: Jon Obenberger, FHWA, USA

Congestion Management Process – Experiences in US Metropolitan Areas
Bob Mayhew, FHWA, USA

Sources of Long-Term Project Sustainability and Benefit
Capture in Tollways and Highway PPPs, 415
Mark Brown, Halcyon, UK

Congestion Strategies in Puget Sound Region, Seattle, WA
Charles Howard, Puget Sound Regional Council, USA

Moving Forward Major Changes in the Attica Region: The Case of Attica Tollway, 435
Jean Harito, Eleni Tyrogianni and Michael Bartzis, Attikis Diadromes, SA, Greece

TRACK 4: Managed Lanes (ML)

Location: Pella

Roundtable Panel - 9:00 AM - 10:30 AM
Early Bird: Agency Approaches to Congestion Management

Moderator: Jon Obenberger, FHWA, USA

Congestion Management Process – Experiences in US Metropolitan Areas
Bob Mayhew, FHWA, USA

Sources of Long-Term Project Sustainability and Benefit
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Moving Forward Major Changes in the Attica Region: The Case of Attica Tollway, 435
Jean Harito, Eleni Tyrogianni and Michael Bartzis, Attikis Diadromes, SA, Greece

Developing and Designing Freeways for the 21st Century
11:00 AM - 12:30 PM

Moderator: Ray Krammes, FHWA, USA

Managed Lane Design and Development – Opportunities and Challenges in the U.S.
Charles Fuhs, Parsons Brinkerhoff, USA

Developing and Designing Managed Lanes in Seattle, WA
Craig Stone, Washington DOT, USA

Managed Lanes - US Experiences
Margaret Moore, Texas DOT, USA

ML Strategies Enhancing Freeway Performance
1:30 PM - 3:00 PM

Moderator: Dan Baxter, DKS Associates, Inc., USA

Assessment of High Occupancy Lane Performance in California, 407
Hamed Benouar and Gabriel Gomes, University of California, Berkeley, Institute for Innovative Transportation, USA

Introducing Express Toll (Managed) Lanes in a City without a Toll Road, 418
Mark Burris, Texas A&M University, USA, and David Fink, Texas DOT, USA

A Cost-Benefit Assessment of a Managed Lane Operation on an Urban Motorway, 420
Simon Cohen, INRETS, France

ML Tools, Deployment and Evaluation
3:30 PM - 5:00 PM

Moderator: Margaret Moore, Texas DOT, USA

Managed Lanes - US Experiences
Jessie Yung, FHWA, USA

The Houston HOT Lane Experience, 419
Mark Burris, Texas A&M University, USA, Bill Stockton, TTI, USA, and David Fink, Texas DOT, USA

A Cost-Benefit Assessment of a Managed Lane Operation on an Urban Motorway, 420
Simon Cohen, INRETS, France

Sensors for Automated Data Collection
3:30 PM - 5:00 PM

Moderator: Jeffrey Randall, Siemens ITS, USA

Machine Vision Sensors for Expressway Management: Strengths and Weaknesses Revealed, 340
Lawrence A. Klein, California, USA

Attica Tollway Automated Incident Detection with Surveillance Equipment, 357
Kostas Papandreou, Pantelis Kopelias, and Vili Vegiri, Attikies Diadromes, SA, Greece

Life Cycle Cost Benefit Analysis of Non-Intrusive Freeway Detection Based on Capital Asset Pricing Model, 373
Sini Stojicic, EIS Inc., Canada
TRACK 1: Expressway Management and Congestion Solutions

Location: Macedonia A

Travel Time Estimation and Dissemination
9:00 AM - 10:30 AM
Moderator: Fanis Papadimitriou, Attikes Diadromes, SA, Greece

Motorway Travel Time Estimation by Switching Algorithms and Toll Data Integration, 106
Anis Ben Aissa, Nour-Eddin El Faouzi, and Olivier De Mouzon, Transport and Traffic Engineering Laboratory, INRETS-ENTPE, France, and Jacques Sau, University Claude Bernard, France

Improving Travel Time Estimation for Freeway Traffic Management and Traveler Information Systems, 110
Robert L.Bertini and Sirisha Kothuri, Portland State University, USA

Travel Time Information via VMS in Athens, 167
Dimitris Sermpis and Babis Charilaos, Greece, and Theofilis Ioannis, Athens Traffic Management Center, Greece

Incident Management
11:00 AM - 12:30 PM
Moderator: Patrick Jones, IBTTA, USA

Incident Management Framework for Egnatia Odos, 142
Konstantinos P. Koutsoukos, Egnatia Odos, SA, Greece

Dynamic Traffic Assignment Applications for Incident Management, 150
Kyriacos C. Mouskos, CTL Cyprus Transport Logistics, Ltd., Cyprus, Virginia P. Sisiopiku and Xuping Li, University of Alabama at Birmingham, USA, Camille Kamga, City University of New York, USA and Curtis Barrett, Vista Transport Group, Inc., USA

Incident Management in Road Concession Projects: The Case of the Attica Tollway, 158
Kostas Papandreou, Pantelis Kopelias and Thanassis Prokos, Attikes Diadromes, SA, Greece

Operations in Emergencies and Special Events
1:30 PM - 3:00 PM
Moderator: Joseph McDermott, McDermott Associates, USA

Prediction-based Guidance for Emergency Freeway Operations: DynaMIT Case Studies, 103
Constantinos Antoniou, Ramachandran Balakrishna, and Moshe Ben-Akiva, MIT, USA, and Haris N. Koutsoopoulos, Northeastern University, USA

AGIR – A Decision Support Tool for Geneva Ring-road Traffic Management during Important Events, 108
Emmanuel Bert, Swiss Federal Institute of Technology, EPFL, Switzerland, David Beni, Arx IT Consulting, Switzerland, Alexandre Torday, Transport Simulation Systems, Spain, and Franco Tufo, CITEC, Switzerland

Disaster Recovery Planning for ITS Applications, 121
Steve Corbin, Florida DOT, USA, and Robert Edelstein, DMJM Harris Inc., USA

Managing Operations for Large Scale Events: The Case of Attica Tollway during the 2004 Olympic Games, 177
Frank Thibaut, and Fanis Papadimitriou, Attikes Diadromes, SA, Greece

TRACK 2: Tollway Development Tolling Operation, Technologies and Issues

Location: Macedonia B

Issues with Tolling and Financing Methods
9:00 AM - 10:30 AM
Moderator: Frank Thibaut, Attikes Diadromes, SA, Greece

In Search of a Contractual Architecture for Tolling Service in Europe: The Cesare III Project, 211
Claude Bidaud, Autoroutes du sud de la France, France

Removing the Toll Bar - What about the Banks?, 226
John Deighton, Halcrow Group, UK

The U.S. Muni-Model versus the International PPP-Concession for Funding New Transport Infrastructure, 253
Nicolopoulos Adam, UBS, USA

Traffic and Revenue Forecasting for Greek PPP Projects, 281
Tony van Emst and Rob Godley, Halcrow Group, Ltd., UK, Kostas Papandreou and Fanis Papadimitriou, Attikes Diadromes, SA, Greece

Toll Pricing, Tendering, and Forecasts
11:00 AM - 12:30 PM
Moderator: Jessie Yung, FHWA, USA

Choosing the Right Pricing Policy for an Urban Modern Tollway, 246
Dimitrios Mandolozis, and Kostas Gogos, Attikes Diadromes, SA, Greece, and Haralambos Malimoglou, Invision Consulting, SA, Greece

Best Practice - Implementation and Operation of the Austrian Tolling System, 251
Gottfried Binder, Raiffeisen Informatik Consulting GmbH, Austria

Key Drivers to ETC Development, 262
Jean Pohu, Transroute International, France

Managing Risks Associated with Traffic and Revenue Forecasting for Tolled Highway Infrastructure, 264
Keyvan Rahmatabadi, Faber Maunsell, UK

Roundtable Panel - 1:30 PM - 3:00 PM
Past, Present and Future of Greek Motorways: How Far Have We Gone, and How Much Is Left to Go?

A distinguished panel of public and private sector officials debate issues related to highways in Greece.

Moderator: Senator Aris Stathakis, National Road Safety Committee

Athanasios Kouloubis, Secretary General for PPP Projects, Greek Ministry of Public Works

Leonidas Korres*, Special Secretary for PPP Projects, Greek Ministry of Economy

Georgios Ganoitis, Former Secretary General for PPP Projects, Greek Ministry of Public Works

Dimitrios Koutras, President, Attiki Odos SA (Attica Tollway)

Panagiotis Delimitsos, President, TEO SA (Greek Toll Roads)

Apostolos Goulas*, President, Egnatia Odos SA (Egnatia Tollway)

(*) To be confirmed

Presentations on this session will be in Greek.
TRACK 3: Technologies and Issues for Operations and Control Centers

Location: Kozani

Technologies in the Service of Operations, Part 1
9:00 AM - 10:30 AM

Moderator: Abdul-Rahman Hamad, Parsons International Ltd., Qatar

Communications Technology – Mission Critical or Critically Flawed? How the UK Highways Agency Traffic Officer Service Gets the Maximum Operational Advantage from Control Centres, 301
Rick Abbots, RAL Associates, Ltd., UK

Serbian Pay Toll System Integration in ITS, 304
Vladan Batanovic, Institute Mihailo Pupin, Aleksandar Šenborn, and Gordana Radojevjevic, Serbia and Montenegro

Selection of Operation Parameters of Service Patrol Programs, 322
Steve Corbin Florida DOT, USA, Mohammed Hadi, Florida International University, USA

Technologies in the Service of Operations, Part 2
11:00 AM - 12:30 PM

Moderator: Lawrence Klein, USA

Information Exchange Agent: A Clearing House to Manage ETC Interoperability between Toll Operators in Ireland, 348
Emmanuel Michaux, Egis Projects, France

Satellite Based System Integration for Traffic Control Centers, 365
José Pedro Rodrigues, Paulo André, and Jorge Cunha, Auto-Estradas do Atlântico - Concessões Rodoviárias de Portugal SA, Portugal

Toll Plaza Design Guidelines, 370
George Soilemezoglou and Demetrios Katsios, NAMA Consulting Engineers and Planners SA, Greece

Satellite-Based, Intelligent and Flexible - Solution and Results of Road Pricing in the Puget Sound Region, 337
Stefan Höpfel, Siemens AG, Germany

Notable Examples of International Freeway Operations
1:30 PM - 3:00 PM

Moderator: Kostas Papandreou, Attikes Diadromes, SA, Greece

Effect on Freeway Performance by a New Bus Line Operating Adjacent to It, 130
Gabriel Gomes and Hamed Benour, University of California, Berkeley, Institute for Innovative Transportation, USA

M42 Active Traffic Management: Innovation in Motorway Management: An English Example, 131
David Grant, Highways Agency, UK

Freeway Operation in Germany - Experiences in Hessen, 171
Jürg M. Sparrmann, Hessisches Landesamt für Straßen-und Verkehrswesen, Germany

Characteristics of Traffic Flow on Freeways in China: A Case Study of Jingjintang Expressway, 175
Xiaoduan Sun, Yongsheng Chen, Yulong He, and Jiangbi Hu, Beijing University of Technology, China

TRACK 4: Expressway and Tollway Development and Issues

Location: Pella

Large Bridge and Toll Highway Projects
9:00 AM - 10:30 AM

Moderator: Kostas Drimeris, Attiki Odos, SA, Greece

One Year of Operation and Maintenance of the Rion -Antirion Bridge, 428
Christophe Pelissie du Rausas, Gefeysa SA, Greece

Attica Tollway: Characteristics and Forecasts of a New Freeway, 463
Anna Politou, Georgia Gania, Attikes Diadromes SA, Greece, and Panos Prevedouros, UH Manoa, USA

Value Engineering for Work Zone Traffic Management and A Daring Closure of One of the Busiest Freeways in North America, 472
Yannis Stogios, Delcan Corp., Canada, and Goran Nikolic, Ontario Ministry of Transportation, Canada

Tampa's Elevated Reversible Expressway - Innovations in Urban Highway Operations and Toll Collection, 474
Martin Stone, Tampa-Hillsborough Expressway Authority, USA

Safety Issues
1:30 PM - 3:00 PM

Moderator: Pantelis Kopelias, Attikes Diadromes SA, Greece

Freeways and Railways Adjacent Location: Operational and Safety Issues, 402
Michael Anastasakis, ERGA OSE, SA, Greece, and Kostas Drimeris, Attiki Odos, SA, Greece

Application of Multiple Tunnel Safety Standards during Construction and Operation, 413
Xavier Bourdais, Scetaurote, France, and Jannis Nassouli, Attikes Diadromes SA, Greece

Influence of Drivers Lane Changing Behaviour on Highways Performance and Safety Level, 478
Alexandre Torday, Transport Simulation Systems, Spain, and Pere Sauret, Real Automóvil Club de Catalunya, Spain

Safety in Tunnel Design and Operation - Case Study, 484
Frederic Walet, SCETAUROUTE, France

Closing Session: Expressway and Tollway Issues and Future Directions
3:30 PM - 5:00 PM – Macedonia A

Moderator: Richard Cunard, Transportation Research Board, USA

Freeway Management, Jon Obenberger (FHWA and AHB20, TRB)

Traffic Control Centers and ITS, Phil Masters (Ontario Ministry of Transport and AHB20, TRB)

Freeway Analysis Tools, Panos Prevedouros (University of Hawaii at Manoa and AHB20, TRB)

Tolling and Tollway Issues, Bill Halkias (Attikes Diadromes, SA and AHB20, TRB)

Institutional Issues, Dan Baxter (DKS Associates, Inc. and AHB20, TRB)
### Tuesday and Wednesday Program at a Glance

**Tuesday, June 6, 2006**

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<td>9:00 AM</td>
<td>Ramp Metering</td>
<td>Open Road Tolling - IBTTA</td>
<td>Integrated Toll and Traffic Management</td>
<td>Early Intl. Agency Approaches to Congestion Management</td>
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<td>11:00 AM</td>
<td>Freeway Speeds and Variable Speed Limits</td>
<td>HOT Lanes and Congestion Charging - IBTTA</td>
<td>Freeway and Tollway Traffic Stimulation</td>
<td>Developing and Designing Freeway for the 21st Century</td>
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<td>Congestion and Bottlenecks</td>
<td>Road User Charging Systems and Concerns</td>
<td>Proactive Management</td>
<td>ML Strategies Enhancing Freeway Performance</td>
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<td>Traffic Management Tools and Centers</td>
<td>Speeding and Speed Limits: Are Drivers out of Control?</td>
<td>Sensors for Automated Data Collection</td>
<td>ML Tools, Deployments and Evaluation</td>
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**Wednesday, June 7, 2006**

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<td>9:00 AM</td>
<td>Travel Time Estimation and Dissemination</td>
<td>Issues with Tolling and Financing Methods</td>
<td>Technologies in the Service of Operations, Part 1</td>
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<td>11:00 AM</td>
<td>Incident Management</td>
<td>Toll Pricing, Tendering, and Forecasts</td>
<td>Technologies in the Service of Operations, Part 2</td>
<td>Concerns with Systems, Decisions and Deployments</td>
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<td>1:30 PM</td>
<td>Operations in Emergencies and Special Events</td>
<td>Fast, Present and Future of Greek Motorways (in Greek)</td>
<td>Notable Examples of IntT Freeway Operations</td>
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<td>3:30 PM</td>
<td>Closure of the professional and scientific program of the Symposium</td>
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