### MITBR 2008: SCHEDULE AT A GLANCE

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*The International Scientific Committee will meet at 3:15 PM for a final debriefing

**Venues:** GH - Guest House, GHCR - Guest House Conference Room, SH - Senate Hall, NA – New Auditorium, DCRs – Department Conference Rooms (Workshop A – Physics Dept., Workshop B – Chemistry Dept., Workshop C – Bio-Tech Dept., Workshop D – Civil Engg Dept.)
SYMPOSIUM PROGRAMME

**Tuesday, February 12: 8:30 – 10:15 AM**

**Paper Session 1: Transit Network Design and Analysis**

**Presiding Officer:** Kalaga Ramachandra Rao, Indian Institute of Technology, Delhi

- Public Transport Route Network Design
  Carol Varghese – National Institute of Technology, Calicut

- Optimal Transit Route Network Design (OTRND)
  Ishtiyaq Gull – Indian Institute of Technology, Mumbai

- Coordinated Feeder Route Generation for Urban Condition
  Soumyajit Ghosh and K.V. Krishna Rao – Indian Institute of Technology, Mumbai

**Tuesday, February 12: 10:30 AM – 12:15 PM**

**Paper Session 2: Transit Systems Management and Performance Evaluation**

**Presiding Officer:** G. J. Joshi, SVNIT, Surat

- Performance Evaluation of State Transport Undertakings
  Naresh Gandu – National Institute of Technology, Calicut

- Evaluation of Utility of Mumbai’s Suburban Trains

- Public Transit Fleet Management for Greater Mumbai
  Valekar Priti S. – Indian Institute of Technology, Mumbai

- Urban Mass Transit System for Hyderabad: A Comparison of MMTS and Metro
  Satyam Shivam Sundaram and G. Raghuram – Indian Institute of Management, Ahmedabad

- Design and Development of a Multi-Objective Transit Passenger Information System Using GIS
  Saurabh Kasturia and Ashish Verma – Indian Institute of Technology, Guwahati
Tuesday, February 12: 1:30 – 3:15 PM
Paper Session 3: Travel Demand Forecasting and Behavioral Analysis
Presiding Officer: Rajat Rastogi, Indian Institute of Technology, Roorkee

Integration of Activity Patterns Through High Resolution Population Distribution and Dynamics
Budhendra Bhaduri, Eddie Bright, Phil Coleman, Cheng Liu and Jim Nutaro – Oak Ridge National Laboratory, USA

Data Analysis for Intercity Air Travel in India
A.M. Jain and Kalaga Ramachandra Rao – Indian Institute of Technology, New Delhi

Travel Behavior in an Urban Educational Area – A Case Study of Ahmedabad City’s University Area
Sandip Rathod, P.J. Gundaliya and B. Srirama – L.D. College of Engineering, Ahmedabad

Study of Work Trip Pattern of Two Contrasting Residential Settlements in Tiruchirapally City
Samson Mathew, Sunitha V., Resmi R. and Indu N. – National Institute of Technology, Tiruchirapally

Potential Errors Due to Network Data Level of Service Attributes in Travel Behavior Modeling: An Exploratory Study
Bharat P. Bhatta – Molde University, Norway

Tuesday, February 12: 3:30 – 5:15 PM
Paper Session 4: Simulation of Transport Systems
Presiding Officer: Tom V. Mathew, Indian Institute of Technology, Mumbai

Data Structure for an Object Oriented Activity Scheduling Simulation Model
Bindhu Muralidhar, P.J. Gundaliya, Tom V. Mathew and S.L. Dhingra – Indian Institute of Technology, Mumbai

Expert System for Evaluating Urban Transportation Strategies in Guwahati City
Rohit Shankar and Ashish Verma – Indian Institute of Technology, Guwahati

A Microsimulation Approach for Travel Demand Analysis
Shashi Kanth Menchu – Indian Institute of Technology, Mumbai

Micro-Simulation of Heterogeneous Single Lane Traffic in VISSIM for Computing Link Travel Time
Guru Charandas Nunna and Tom V. Mathew – Indian Institute of Technology, Mumbai

Microsimulation Technique for Residential Location Choice: A Case Study
M. Kumar, Osmania University and K.V. Krishna Rao – Indian Institute of Technology, Mumbai
**Wednesday, February 13: 8:45 – 9:15 AM**

*Inaugural Function*  
**Presiding Officer:** Ashish Verma, Indian Institute of Technology, Guwahati

Welcome  
Ashish Verma, Indian Institute of Technology Guwahati  
Ram Pendyala, Arizona State University, Tempe

Overview of Activities of the Department of Civil Engineering  
Anjan Dutta, Head of the Department of Civil Engineering, Indian Institute of Technology Guwahati

Overview of Activities of the Indian Institute of Technology - Guwahati  
Gautam Barua, Director, Indian Institute of Technology Guwahati

Indo-US Cooperation in Science and Technology - Perspectives and Opportunities  
Smriti Trikha, Indo-US Science and Technology Forum (IUSSTF), New Delhi

**Wednesday, February 13: 9:15 – 10:30 AM**  
*Plenary Session I: Setting the Stage for an Indo-US Collaborative Agenda*  
**Presiding Officer:** Ashish Verma, Indian Institute of Technology, Guwahati

Ram Pendyala, Arizona State University, Tempe  
Ashish Verma, Indian Institute of Technology, Guwahati

Government of India Perspective: Overview of Transport Infrastructure Development in India  
S. K. Lohia, Ministry of Urban Development, New Delhi

Urban Transport in India: World Bank Approach  
Hubert Nove Joserrand, World Bank, New Delhi

**Wednesday, February 13: 10:45 AM – 12:45 PM**  
*Plenary Session II: The Planning and Development of a Sustainable Transportation Infrastructure*  
**Presiding Officer:** Ram Pendyala, Arizona State University, Tempe

Current Challenges and Future Prospects for Sustainable Urban Transportation in India  
Kumares Sinha, Purdue University, USA

Preserving Public Transit Competitiveness in an Era of Economic Growth and Technological Change  
Steve Polzin, University of South Florida, USA

Integrated Urban Multimodal Mass Transit System for Sustainable Development  
S. L. Dhingra, Indian Institute of Technology, Mumbai

Planning & Execution of Mega Transportation Projects  
R. K. Jha, Navi Mumbai SEZ, Mumbai

Transportation Planning in the Indian Context  
Raghava Chari, Advisor LASA, Hyderabad
Wednesday, February 13: 2:00 – 4:20 PM

Plenary Session III: Managing Rising Travel Demand and Congestion in Urban Transportation Networks

Presiding Officer: Kumares Sinha, Purdue University, USA

The Impacts of Telecommunications Technologies on Travel Behaviour: Thoughts on the Indian Context
Patricia L. Mokhtarian, University of California at Davis, USA

Congestion Management in a Rapidly Growing Economy: Optimizing Transportation Network Performance
Hani Mahmassani, Northwestern University, USA

Issues in Planning for Sustainable Public Transport in India
O. P. Agarwal, Urban Mass Transit Company, New Delhi

Planning for Mass Transit in a Developing Economy: A Few Points to Ponder
V. Thamizharasan, Indian Institute of Technology, Chennai

Planning for Mumbai Metro Rail Project
G. R. Madan, Mumbai Metropolitan Region Development Authority (MMRDA), Mumbai

Optimization of Transit Systems
Dr. Ralf Borndoerfer, Zuse Institute Berlin (ZIB), Germany
Thursday, February 14: 8:00–10:00 AM
Plenary Session IV: Analysis of Passenger Transportation Systems
Presiding Officer: Konstadinos Goulia, University of California at Santa Barbara, USA

Recent Developments in Modeling Complex Activity and Travel Behaviour Patterns
Chandra Bhat, University of Texas at Austin, USA

Mode and Route Choice Modeling: Challenges and Needs in Developing Countries
Karthik Srinivasan, Indian Institute of Technology, Chennai

Overview of Transit Route Network Design and Trip Planning
Tom V. Mathew, Indian Institute of Technology, Mumbai

Bus Rapid Transit - an Option for Mass Transit in Indian Cities
T. S. Reddy, Reliance

Passenger Transportation Systems in Rural India
Bhargab Maitra, Indian Institute of Technology, Kharagpur

Thursday, February 14: 10:15 AM – 12:15 PM
Plenary Session V: Simulation of Multimodal Transport Systems
Presiding Officer: Raghava Chari, Advisor LASA, Hyderabad

The Transition to Activity-Based Microsimulation Models of Travel Demand in the US
Mark Bradley, Mark Bradley Research and Consulting, USA

Estimation of Passenger Demand on Transit Systems
K. V. Krishna Rao, Indian Institute of Technology, Mumbai

Urban Transit Network Design: An Optimization Problem
Partha Chakraborty, Indian Institute of Technology, Kanpur

Intelligent Transportation Systems for Urban Bus Transit in India
Kalaga Ramachandra Rao, Indian Institute of Technology, New Delhi

Advances in Mass Transit Planning Methodologies and their Implementation in India
G. Raghuram, Indian Institute of Management, Ahmedabad
**Friday, February 15: 8:30 – 10:15 AM**

**Plenary Session VI: New Directions in Transport Data Collection and Analysis**

**Presiding Officer: R. K. Jha, Navi Mumbai SEZ, Mumbai**

Data Resources in Travel Behaviour Research in the United States  
*Elaine Murakami, US Department of Transportation, USA*

Space, Time, and Money in Activity Modelling and Simulation  
*Konstadinos Goulias, University of California at Santa Barbara, USA*

Issues in Data Collection and Non-Motorized Transport Planning  
*Rajat Rastogi, Indian Institute of Technology, Roorkee*

Application of Intelligent Transport System for Parking Management  
*S. Velumurugan, Central Road Research Institute, New Delhi*

**Friday, February 15: 10:30 AM – 12:30 PM**

**Parallel Workshops**

Workshop A: New Methods and Technology Applications for Transportation Data Collection and Analysis  
*Elaine Murakami (Co-Chair), Konstadinos Goulias, K. V. Krishna Rao (Co-Chair), Rajat Rastogi (Rapporteur), Bhargab Maitra, T. S. Reddy, G. Raghuram*

Workshop B: Managing Rising Travel Demand and Congestion in Urban Transportation Networks  
*Patricia L. Mokhtarian (Co-Chair), Hani Mahmassani, S. L. Dhingra (Co-Chair), S. Velumurugan (Rapporteur), H. Nove-Josserand, R. K. Jha, S. K. Lohia*

Workshop C: Understanding Activity - Travel Behavior in a Multicultural Context  
*Chandra Bhat (Co-Chair), Mark Bradley, V. Thamizharasan (Co-Chair), Tom V. Mathew (Rapporteur), Karthik Srinivasan, Raghava Chari*

Workshop D: Public Transportation Systems – Preserving Competitive Viability  
*Steve Polzin (Co-Chair), Kumares Sinha, Partha Chakraborty (Co-Chair), Kalaga Ramachandra Rao (Rapporteur), O. P. Agarwal, G. R. Madan*

**Friday, February 15: 2:00 – 3:00 PM**

**Closing Function and Plenary – Workshop Reports**

**Presiding Officer: Ram Pendyala, Arizona State University, Tempe**

Workshop Reports  
*Workshop Co-Chairs*

Closing Remarks  
*Ashish Verma, Indian Institute of Technology, Guwahati*

**Note:** The workshops will be held in parallel. For each workshop there is a limited capacity of about 15 participants. Hence, all participants (other than invited speakers, who are already grouped) will be asked to select one of the five workshops based on their interest, subject to the availability of space in the chosen workshop.