

Transportation Research Group of India



TRG NEWSLETTER

A Ternary Newsletter of Transportation Research Group of India

Vol 2 (1) Nov, 2013

(TRG is Registered under the Karnataka Societies Registration Act, 1960 with Reg. No. DRB/C/SOR/29/2011-12)



Editors



Prof. G. J. Joshi
Associate Professor,
Civil Engineering Department,
Sardar Vallabhbhai National
Institute of Technology, Surat



Prof. Animesh Das
Professor,
Department of Civil Engineering,
IIT Kanpur



Prof. Akhilesh Kumar Maurya
Assistant Professor,
Department of Civil Engineering
IIT, Guwahati

TABLE OF CONTENTS

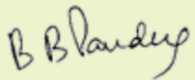
SI.NO	CONTENTS	NO.
1	Message from Patron TRG	1
2	Message from TRG President	1
3	Activities of TRG	3
4	Past Events	2
5	TRG 1 st Foundation Day Seminar on Research in Sustainable Transportation Planning	2
6	New Horizons in Vehicle Telematics & Intelligent Transport System	2
7	High Speed Rail Symposium	3
8	TRG 2 nd Foundation Day Workshop on ITS	4
9	TRG Special Session at WCTR	5
10	TRG Roundtable Session at IAC 2013	5
11	Upcoming Events	6
12	2 nd CTRG	6
13	MOU Signed between TRG and FCH	7
14	TRG Executive Board	8
15	Registered Office of the Society	8

Message from Patron TRG



Prof. B. B. Pandey, Advisor, Sponsored Research and Industrial Consultancy and former Professor and Head, Civil Engineering, Indian Institute of Technology, Kharagpur, India

I am pleased to know that the Transportation Research Group of India (TRG) is releasing the next issue of their periodic newsletter to keep its members and friends abreast of the activities of TRG and emerging research and developments in the transportation sector in India. Our country is presently going through infrastructure development phase in all sectors of transport, including roads. Most of the cities in India, both small and large, are choking due to chaotic traffic conditions. Mega projects like National Highway Development Programme (NHDP) and Pradhan Mantri Gram Sadak Yojana (PMGSY) are under different phases of implementation covering both intercity and rural roads and involving mega-investments. At the same time, pavements of major highways, city as well as rural roads in India have short lives leading to premature cracking and rutting leading to rapid growth of potholes. The issue of maintaining the road infrastructure poses a big problem for lack of coordinated research. Many standards published by Indian Roads Congress are not based on research in India and many specifications have mixed performance. It is necessary to carry out focused research to develop durable, sustainable and environmentally friendly pavements for all types of roads and highways. All this requires substantial research inputs to solve pressing technical issues. The time is therefore apt for a society like TRG to come in existence and provide all necessary research and capacity building support to India and thereby contribute to the overall growth of the country. I wish all success for TRG and hope that the information in this Newsletter will be useful to TRG's members and other transportation professionals.



Prof. B. B. Pandey

Message from TRG President



Prof. Ashish Verma, Assistant Professor, Department of Civil Engineering and CiSTUP, Indian Institute of Science, Bangalore, India

Dear TRG Members,

I am pleased to release the 2nd version of the "TRG Newsletter". Through newsletter and various other activities including journal, magazine, and conference of TRG, the society wishes to promote transport research and capacity building in India. During last one year, TRG carried out many useful activities, which are summarized in this Newsletter. I am also glad to inform that, with its sustained efforts, TRG has been able to network and forge collaboration with many national and international bodies like, IUT, CSIR-CRRI, WCTRS, EASTS, TRB, T&DI - ASCE, FCH etc. We are soon going to organize the 2nd CTRG during 12-15 Dec. 2013 at Agra and I request all members to make the conference successful by participating in it. Lastly, I am thankful to my learned colleagues from TRG, Prof. G. J. Joshi, Prof. Animesh Das, and Prof. A. K. Maurya for shouldering the responsibility of TRG Newsletter.



Prof. Ashish Verma

Activities of TRG

Past Events

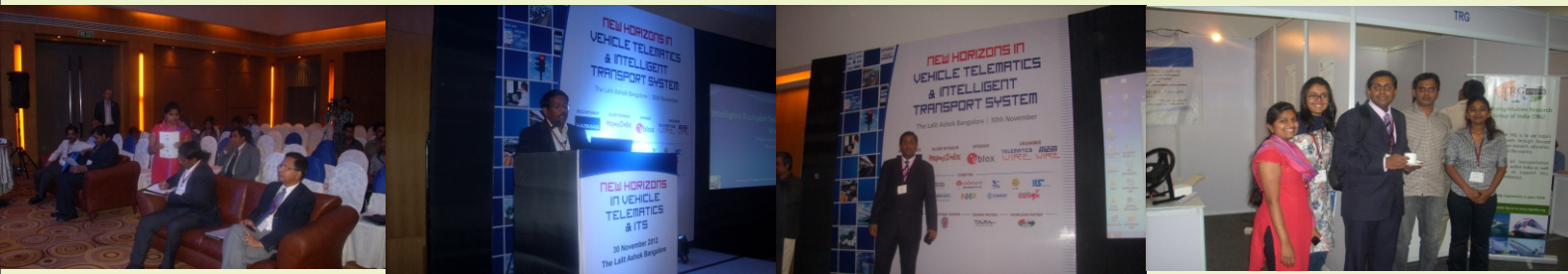
TRG Foundation Day seminar on Research in Sustainable Transportation Planning

Seminar on Research in Sustainable Transportation Planning was organized by Central Road Research Institute in association with Transportation Research Group of India on 28th May 2012. It was half day seminar organized successfully with various topics related to Sustainable Transportation in India. Prof. S Gangopadhyay, Director of CRRI gave the Inaugural address. Some of the speakers were Prof. Ashish Verma, Dr. E Madhu, Prof. R. R. Kalaga and Prof. Velmurugan.



New Horizons in Vehicle Telematics & Intelligent Transport System

It was organized jointly by Transportation Research Group of India and Telematics wire on Nov 30th 2012 at Hotel Lalit Ashok, Bangalore. Telematics India 2012 provided an excellent platform to discuss and deliberate about new developments in this domain to the select exclusive group of government and industry representatives, constituting state transport corporations, logistics & supply chain, automotive, telecom, telematics and M2M. Senior and middle management officers of STCs, transport departments, service providers and technology developers were part of this one day event.



Speakers and topics presented were:

Name of the Speaker	Affiliation	Topic
Shri. N Manjunatha Prasad, IAS	MD, KSRTC	ITS implementation for public transport in Mysore
Prof. Lelita Devi	IIT, Madras	Advanced Traveller Information System under Development and Deployment in Chennai
Dr. K. A. Raju	TCS, Mumbai	Relevance of Vehicle Telematics for Trucking Business
Mr. V. Murlidharan	CDAC - Trivandrum	ITS initiatives of CDAC
Prof. Partha Chakroborty	IIT, Kanpur	Intelligent Transport System (ITS) and sustainability
Mr. David Moszkowicz	MD, Lumiplan ITS India Pvt Ltd	Intelligent optimization of Public Transport routes and Schedules in Bangalore.
Prof. Ashish Verma	IISc, Bangalore	Application of Vehicle Telematics in Transportation Systems
Mr. Srikanth Shastry, Mr. Ashwin Prabhu	EMBARQ	ITS in Public Transportation
Prof. Soumyendu Raha, Prof. Raghuram Srinivasan, Prof. Ashish Verma	IISc, Bangalore	Intelligent vehicle routing system

High Speed Rail Symposium:

TRG along with SJCE - Mysore , Fundacion Caminos de Hierro - Spain , TEQIP – Government of Karnataka and Conferences and Incentives Management Pvt Ltd organized High Speed Rail Symposium at SJCE campus in Mysore on 9th and 10th May 2013. There were 100 delegates who participated in this Symposium.

HSR 2013

MYSORE, INDIA

First day of the symposium was open to all the delegates. There were three technical sessions with 12 speakers who presented their paper on the following theme:

1st Session (2 hrs.)	<ol style="list-style-type: none"> 1.Mr. Shri Prakash, TERI, New Delhi - Energy and environmental impacts of HSR along select corridors in India 2.Prof. G. Raghuram , IIM Ahmedabad– Issues for Developing High-Speed Rail Network in India 3.Dr. Eduardo Romo, Fundacion Caminos de Hierro, Spain - 25 Years of HSR Spanish Experience 4.Mr. Milind Nirmal, DB International GmbH - Mixed traffic on High Speed Rail Lines in Germany.
2nd Session (2 hrs.)	<ol style="list-style-type: none"> 1.Dr. Murthy V. A. Bondada, Urban Transportation Engineers and Planners Casselberry, USA - Feasibility of HSR in India from Lessons Learned in USA 2. Dr. Julian Sastre, Fundacion Caminos de Hierro, Spain - The Effects of High-Speed Rail In Spain 3.Dr. K. A. Raju, Tata Consultancy Services (TCS), Mumbai – Passenger 360o 4.Dr. Eduardo Romo, Fundacion Caminos de Hierro, Spain - Infrastructure Technologies Innovations and Operational Safety
3rd Session (2 hrs.)	<ol style="list-style-type: none"> 1.Prof. Ashish Verma, IISc Bangalore – Assessing the Environmental Impacts of High Speed Rail (HSR) for policy level decisions 2.Prof. Anbazhagan P., IISc Bangalore - Geotechnical Engineering for High Speed Train Ballasted Railway Tracks 3.Ms. Lila P. C., CDMSmith, Bangalore - Review of Forecasting Methodologies for High Speed Rail 4.Ms. Anantha Lakshmi P., CSTEP, Bangalore - Demonstration of Proof - of -Concept for looking at Alternatives for transport infrastructure

Taking forward the experiences and views shared on 1st day of Symposium by experts and delegates, the 2nd day of the Symposium focused on structured round-table discussion among invited expert group members on developing a concrete agenda for development and implementation of High Speed Rail in India.



TRG 2nd Foundation Day Workshop on ITS

Transportation Research Group of India organized two day workshop on ITS for Sustainable Transportation System and Choices as part of TRG 2nd foundation day celebration in association with Intel Technology India Pvt. Ltd and Department of Civil Engineering, Indian Institute of Science, Bangalore. Workshop was funded by Intel Technology India Pvt. Ltd



Venue: Department of Civil Engineering, IISC, Bangalore

The 1st day had an open seminar where experts from countries like India, France, and Canada delivered talks on various sub-themes of the workshop. There were about 58 registered delegates on 1st Day of the workshop covering, international and national stakeholders in ITS, government officials, consultants, academicians, and Students.

Following are the details of the session:

1st Session (2 hrs.)	<p>Prof. Ashish Verma, Asst. Prof. (Indian Institute of Science (IISc), Bangalore) and President (Transport Research Group (TRG) of India) – Role of TRG in promoting Transportation Research and Capacity Building India.</p> <p>Prof. Partha Chakroborty, Professor, Indian Institute of Technology (IIT) Kanpur – Role of ITS in building a Sustainable Urban Transportation System: Some Thoughts</p> <p>Dr. A Ravindra, IAS (Retd.), Advisor to the Hon'ble Chief Minister of Karnataka, Urban Affairs. – Issues in Sustainable Transport</p> <p>Mr. P. Ravikumar, and Mr. V. Murlidharan, Centre for Development of Advanced Computing (CDAC) - Current ITS Scenario in India and need for an integrated approach</p> <p>Mr. Rajiv Mongia, & Mr. Ranganathan Kumar, Intel labs - Intel collaborative research institute for sustainable and connected cities.</p> <p>Ms. Sujaya Rathi, Centre for Study of Science Technology and Policy (CSTEP) - ITS- a systems view</p> <p>Mr. Nataraju Vusirikala, Robert Bosch Engineering and Business Solutions Ltd., Bangalore - ITS for Road Safety</p>
2nd Session (2 hrs.)	<p>Mr. Srinivas Sesha Patchala, Tata Consultancy Services (TCS), Mumbai – Electronic Ticketing Machines Enabling User Friendly Bus Transport</p> <p>Dr. Espie Stephane, Institute Francaise des Sciences et Technologies Des Transports (IFSTTAR), France - Tools and methodology for ITS design and assessment</p> <p>Prof. Naveen Eluru, McGill University, Montreal, Canada – Analyzing Data from ITS Technologies</p> <p>Prof. Anurag Kumar, Electrical Communication Engineering (ECE), IISc Bangalore - Models for Delay at Traffic Lights</p> <p>Prof. Shalabh Bhatnagar, Computer Science and Automation (CSA), IISc Bangalore - Distributed Asynchronous Reinforcement Learning Algorithms for Traffic Signal Control</p>
3rd Session (2 hrs.)	<p>Prof. Soumyendu Raha, Super Computer Education and Research Centre (SERC), IISc Bangalore - Intelligent vehicle routing system</p> <p>Dr. E. Madhu, Central Road Research Institute (CRRI), New Delhi</p> <p>Prof. Ashish Verma, IISc Bangalore – Bangalore Public Transport Trip Planner</p>

Taking forward the experiences and views shared on 1st day of Workshop by experts and delegates, the 2nd day of the Workshop focused on structured round-table discussion among invited expert group members on developing a concrete agenda for development of Intelligent Transportation Systems (ITS) technologies in India.

TRG Special Session at WCTR

TRG's Special Session on "Status and Challenges in Transportation Research in India" was held on July 16th 2013 at Rio de Janeiro, Brazil during 13th World Conference of Transport Research (WCTR July 15th - 18th 2013) Dr. Ashish Verma, President of TRG was the moderator.

Following are the details of the Presentation:



- Role of TRG in promoting Transportation Research and capacity building in India by Prof. Ashish Verma, President of TRG
- Comparing impact of Public Transport systems (Bus Vs Metro Rail) based on Life cycle assessment method, Delhi by Prof. Geetam Tiwari, Professor IIT Delhi.
- Issues in PPPs Ports in India by Prof. Raghuram, Professor , IIT Ahmedabad
- Development of Indian Highway Capacity Manual: An Overview by Prof. K.Ravinder, Scientist – Central Road Research Institute.
- Development of Sustainable Transport Model to Assess Urban Transportation Policies in India by Prof. Ashish Verma, Assistant Professor, IISc, Bangalore

TRG Roundtable Session at IAC 2013

TRG Roundtable session on "fostering academia and industry/government collaboration on transport research" was held during IAC 2013 on 23rd August at ITC Grand Chola , Chennai. During the session , how to bridge the gap between Transportation Research and Practice was discussed. There were 9 Panellists who participated in this Roundtable session. Role of TRG in Fostering collaboration was also discussed.

Following were the members who participated in the session

1. Prof. Ashish Verma , President-Transportation Research Group of India (TRG)
2. Prof .P Anbazhagan , Dept of Civil Engg, IISC , Bangalore
3. Mr. Kumar Ranganathan , Intel Corporation , India
4. Prof Thamizh Arasan V , Retd Prof. , IIT Madras
5. Mr. Raghavendra ,Ex - Task Force Member , GOK
6. Mr. Partha Bosu, Clean Air Asia, New Delhi
7. Mr. Balasubramaniam R , Director (Retd) , CIRT
8. Ms. Leena Pishu , Regional Manager , European Business and Technology Centre



Upcoming Events

2nd CTRG:

We are pleased to invite you to the city of Taj Mahal to participate in the 2nd Conference of the Transportation Research Group of India (2nd CTRG) between 12 to 15 December, 2013. The objective of the conference is to create and provide a forum within India for interchange of ideas among researchers, educators, practitioners, managers, and policy-makers in transportation in India and around the world. We intend to cover a wide spectrum of topics related to transportation of people and freight.



Partha Chakroborty, Ph.D.

Chair, 2nd CTRG,
Rajeeva and Sangeeta Lahri Chair Professor
Department of Civil Engineering
IIT Kanpur



Harikishan K. Reddy, Ph.D.

Co-Chair, 2nd CTRG,
Managing Director
V R TECHNICHE Consultants Pvt Ltd
NOIDA

Organized in association with:

- Indian Institute of Technology (IIT), Kanpur
- CSIR - Central Road Research Institute
- Transportation Research Board (TRB), USA
- Transportation & Development Institute, ASCE
- East Asia Society for Transportation Studies (EASTS)
- Association of Transportation Professionals of Indian Origin (ATPIO)

Venue : Jaypee Palace Hotel & International Convention Centre, Agra

List of Keynote Speakers:

- Prof. Kumares C. Sinha, Purdue University, USA
- Prof. B. B. Pandey, IIT Kharagpur
- Dr. Mark Bouldin, Shell Speciality, U.K
- Prof. Dusan Teodorovic, University of Belgrade, Serbia
- Prof. Chandra R. Bhat, Center for Transportation Research, Austin
- Prof. S. Gangopadhyay, CSIR, Delhi
- Prof. Louay Mohammad, Louisiana State University, USA
- Prof. Srinivas Peeta, Purdue University, USA

Tutorials Details :

Tutorial No	Title	Tutor
Tutorial 1	Modelling Pedestrian Flow	Prof. Armin Seyfried
Tutorial 2	Discrete Choice Analysis	Prof. Chandra Bhat
Tutorial 3	Operation Research Methods in Transportation	Prof. Dusan Teodorovic
Tutorial 4	Analysis of Pavements	Prof. Animesh Das
Tutorial 5	Travel Behaviour	Prof. Karthik Srinivasan
Tutorial 6	Asphalt Mix Design: The state of the art	Prof. Louay Mohammad
Tutorial 7	Dynamic Traffic Assignment	Prof. Srinivas Peeta
Tutorial 8	Intelligent Transport Systems	Prof. Lelitha Vanajakshi & Prof. C.S. Ramshankar

MOU Signed between TRG and FCH:

"TRG recently signed an MOU with Spanish society Fundacion Caminos de Hierro (FCH) for collaboration on High Speed Rail and related areas



On June 20th, 2013, representatives of the Fundacion Caminos de Hierro (FCH) and the Transportation Research Group of India (TRG) met and discussed technical areas of mutual interest;

FCH and TRG wish to develop an institutional partnership primarily on Railway transportation which will guide further discussions, and identify understanding in information dissemination, research projects, and exchange of experts in these and other topic areas.

Participants intend to collaborate on the following areas.

- Railways market and economical appraisal.
- Transportation Planning
- High Speed Rail
- Sustainable mobility.
- Freight Transport.
- Intelligent Transportation Systems (ITS).
- Urban Transit and Commuters railways.
- PPP and other management and financial models.
- Professional Capacity Building.
- Transportation Security and Safety, etc.,

Following activities will be pursued under the MOU between TRG and FCH.

- Working Meetings
- Training Workshop
- Connecting Professionals
- Joint International Projects

Brief on FCH

Fundacion Caminos de Hierro is a non-profit making organisation in Spain dedicated to research into the field of engineering and railway technology in general. At Fundacion Caminos de Hierro they provide solutions for the development of transport systems through the offering of assessment and consultancy services as well as collaborations in the field of R&D&I (Research and Development and Innovation). Their collaborations are characterised by the quality of the analyses undertaken, thanks to the highly-qualified specialists that form their team and as a result of the commitment on the part of FCH to comply with the timeframes imposed upon them, as their aim is to accelerate the process of reaching the future of rail technology as soon as possible.

TRG Executive Board

Sl.No	Name	Designation	Affiliation
1	Prof. Ashish Verma	President	IISc Bangalore
2	Prof. Animesh Das	Vice- President	IIT Kanpur
3	Prof. S.Velmurugan	Executive Secretary	Central Road Research Institute
4	Prof. Rajat Rastogi	Treasurer	IIT Roorkee
5	Dr. Harikishan K. Reddy	Member	V R TECHNICHE Consultants
6	Prof. Akhilesh Kumar Maurya	Member	IIT Guwahati
7	Ms. Anitha Niranjan	Member	CIM Global, Bangalore
8	Prof. Bhargab Maitra	Member	IIT Kharagpur
9	Prof. Geetam Tewari	Member	IIT Delhi
10	Prof. G. J. Joshi	Member	SVNIT Surat
11	Prof. M.V.L.R.Anjaneyulu	Member	National Institute of Technology, CALICUT
12	Prof. Partha Chakroborty	Member	IIT Kanpur
13	Prof. R. K. Jha	Member	Gujarat International Finance Tec-City Co. Ltd.
14	Prof. Sanjay K. Singh	Member	IIM Lucknow
15	Prof. Tom V. Mathew	Member	IIT Bombay

Registered Office of the Society

Registered office of Transportation Research Group of India has been shifted officially with effect from March 2013 to the below mentioned address

Transportation Research Group of India,
 No,2 N.G Complex, 2nd Floor,
 30th Cross, Jayanagar 4th T Block,
 Bangalore - 560041



Transportation Research Group of India



Transportation Research Group of India

No. 2, NG Complex, 2nd Floor, 30th Cross,
Bannerghatta Road Layout, Jayanagar 4th T Block,
Bangalore – 560 041.

Tel: +91 80 26080700

Fax: +91 80 26080702

Web: www.trgindia.org