



CiSTUP News Letter

Centre for infrastructure, Sustainable Transport and
Urban Planning, Indian Institute of Science, Bangalore, INDIA

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August 2010

A Vehicle for Analytical Thinking to Improve the Unique Urban Issues

MESSAGE BY M.K. SHANKARALINGE GOWDA, IAS, SECRETARY TO GOVERNMENT TRANSPORT DEPARTMENT, GOVT. OF KARNATAKA



It gives me immense pleasure to learn that CISTUP is bringing out its Third Newsletter. The very fact that CISTUP within a span of 10 months is coming out with its third issue of Newsletter speaks volumes of the activities that is being carried out in the centre.

I am very glad to learn that CISTUP has commenced the new M.Tech Course in

Transportation and Infrastructure Engineering. It is also very heartening to know that Bangalore Metropolitan Transport Corporation (BMT) and the Karnataka State Road Corporation (KSRTC) have sponsored Five candidates for this New course. I am pretty certain that the sponsored candidates will gain rich experience from the Renowned Institution of learning and give back their best to the parent organizations.

The varied activities that are being carried out at the centre will enlighten the different agencies in Karnataka and also assist us in solving various issues in transportation, infrastructure development and in urban planning. My hearty congratulations to the team at CISTUP and the Faculty of Indian Institute of Science that is associated with this centre.

20.10.10

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MESSAGE BY CHAIRMAN, PROF. T.G. SITHARAM



The third issue of this Newsletter gives a vivid picture of all the activities that took place in the centre during the period March-August 2010. CISTUP is organizing a conference in the theme areas of the centre during 18th to 20th October 2010 (details are given in the second page of this Newsletter). A review of the CISTUP research projects (7 Nos.) having a duration of one year was conducted by a Review committee

on 23rd July 2010. The committee was satisfied with the progress made so far. Newsletter also reports the Greening Initiative taken up by CISTUP at the Jubilee gardens of IISc on the occasion of 100th IISc batch of Students.

Let me at the outset extend HEARTY WELCOME to the FIRST BATCH OF STUDENTS in the new M.Tech programme in Transportation & Infrastructure Engineering and also the Research Students for Ph.D programme in CISTUP.

Having welcomed the first batch of students to the New M.Tech programme in Transportation & Infrastructure Engineering, I would like to express my sincere thanks to one and all at the Institute who were instrumental in commencing this New course at CISTUP. We had an excellent response for the M.Tech. programme and 12 students (7 from regular and 5 sponsored from BMT & KSRTC) have joined the centre. Further 5 Research students have joined for the Ph.D programme at CISTUP. I am confident that the centre with the large number of activities throws up innovative solutions to the various problems facing the State and the Nation in the areas of Sustainable Transportation, Infrastructure Development and Urban planning issues. The centre has also developed state-of-art class room with the latest facilities for running the classes.

I hope you enjoy this issue of our newsletter which focuses on activities of centre along with a brief report on how to reduce pressure on Bangalore city.

Up Coming Event

CONFERENCE ON INFRASTRUCTURE, SUSTAINABLE TRANSPORTATION AND URBAN PLANNING (CISTUP@CISTUP) ON 18TH TO 20TH OCT2010

Venue: J.N. Tata Auditorium,
Indian Institute of Science,
Bangalore-560012

Organized by:

Centre for Infrastructure, Sustainable
Transportation, and Urban Planning (CISTUP),
Indian Institute of Science
Bangalore, India

Two Technical sessions are being organized jointly
with KSCST.

Registration Fee (for both Indian and Foreign
Delegates):

Sl. NO	Category	Registration Fees	
		Till 15th Sep. 2010 (early bird)	After 15th Sep. 2010
1	Academic, Field, and R&D organizations	2500 Rs.	3000 Rs.
2	Students	900 Rs.	1000 Rs.

Conference registration fee is to be paid by demand
draft only, in favor of "CISTUP-2010" payable at
Bangalore. The fee includes; course material, working
lunch, conference dinner, tea etc. All other expenses
will be borne by the participants themselves.

Important Dates:

Submission of full papers : August 30, 2010
Acceptance of full papers : September 15, 2010
Conference dates : October 18-20, 2010

Advertisement:

A Souvenir will be published containing abstracts,
conference program, messages, sponsor details,
advertisement etc. The tariff for color advertisement
is given below:

Inside front cover: Rs.60000/-	Inside back cover: Rs.60000/-
Full page: Rs.50000/-	Half page: Rs.25000/-
Back cover: 65000/-	

Abstracts Received: Out of 150 abstracts that were
received 118 abstracts have been accepted after the
review. The list of the accepted abstracts is put in the
web page of CISTUP

Introduction

This conference is intended to serve as a forum where experts in the field of
infrastructure, sustainable transportation and urban planning from India and abroad can
get together to discuss the latest developments in their field, identify key issues and
challenges, exchange information and learn from each other's experiences and develop
an ambitious agenda for future research and
Technology transfer activities.

Format:

The conference will be held for three days. Parallel Sessions on the themes listed below
will take place. There will be one keynote session in the conference, and each technical
session will have one invited lecture and one presentation by CISTUP stakeholder or
sponsoring organizations. Panel discussion on infrastructure, sustainable transportation
and urban planning will be held towards the conclusion of the conference. Also, Specific
discussions on the various topics listed are planned on the concluding day of
CISTUP@CISTUP 2010.

Theme of CISTUP@CISTUP 2010	Sponsorship
<ul style="list-style-type: none"> - Infrastructure Development - Sustainable Transport - Urban Planning - Application of Geoinformatics - Any Other Related Topic On Above Themes 	<p>Gold Sponsorship : Rs.4, 00,000/- (4 delegates free) Silver Sponsorship : Rs.2, 00,000/- (2 delegates free) Sponsorship : Rs.1, 00,000/- (1 delegate free) The sponsors will also be provided with exhibition stall of relative size.</p>

Accommodation

A limited number of rooms will be reserved at the IISc guest houses for attendees (on
payment basis). The guest house, and the campus at large, provides comfortable
accommodation. Also, the list of nearby hotels will be made available on conference
website. Visit <http://cistup.iisc.ernet.in/conference/homepage.htm>

Conference Organizing Committee:		
Chairman: Prof. T.G. Sitharam, chairman, CISTUP		
Vice Chairman: Prof. M.S. Mohan Kumar and Prof.D. Nagesh Kumar , IISc		
Organizing Secretary: Dr. Ashish Verma, IISc		
Joint Organizing Secretary: Dr. K.V. Gururaja and Mr. Deepak Baindur		
Members:		
Prof Ananth Ramaswamy, Iisc, Dr. P. Anbazhagan, Iisc Prof. Anurag Kumar, Iisc, Prof. C. Bhattacharya, Iisc Mr. A.R. Shiva Kumar Kscst,Iisc	Prof. J.M. Chandra Kishen, Iisc Dr. H.N. Chanakya, Iisc Mr.Hemanth Kumar, Kscst,Iisc Prof. H.S. Jamadagni, Iisc Prof. G.L. Siva Kumar Babu, Iisc	Prof Muddu Shekhar , Iisc Dr. K.S. Nanjunda Rao, Iisc, Dr. Parameshwar Iyer, Iisc, Mr.Prithviraj, Kscst, Iisc, Dr. T.V. Ramachandra, Iisc Prof. B.V. Venkatarama Reddy, Iisc

IISc OPEN DAY FESTIVAL AT CISTUP ON 26TH FEBRUARY

ONE DAY WORKSHOP ON EXECUTIVE DEVELOPMENT FOR BMTC EXECUTIVES

on 30th march 2010

Programme Coordinators: Prof.K.B.Akilesh & Dr. Anjula Gurtoo

Dept. of Management Studies

This workshop which was meant for BMTC executives had a participation of 34 Managers from BMTC from their different depots/offices. The workshop saw some innovative methods in the form of Games for analyzing and implementing various strategies/plans in an organization.

Chief Guest:

Sri Syed Zameer Pasha, I.A.S
Managing Director, BMTC

Guest of Honor:

Prof. K.R. Yogendra Simha,
Chairperson
Dept. of Management Studies

Convener:

Prof. T.G. Sitharam, CISTUP.

Guest:

Sri S.K. Paramesh,
Director (Technical)

A View of the Workshop



WORLD CAFÉ SOCIAL EXPERIMENT - PUBLIC PARTICIPATION IN THE INFRASTRUCTURE ASPECTS AT IISc on 5th April 2010

Workshop Coordinators: Dr. P. Parameshwar Iyer and Dr. N.S.Anuradha

Dept. of Management Studies

This social experiment helped the participants to come with many Innovative solutions to the various problems concerned with Waste Management, Traffic & Transport Management, Water Management and other relevant issues within the campus. A total of 53 charts were generated discussing the various issues.



Director, IISc P. Balaram speech



A view of world café experiment

LECTURES AND SEMINAR'S

9th Apr 2010

Activity-Based Travel Modeling: Overview, Applicability and Potential Implementation In Indian Urban Areas

By Prof. R. Chandra Bhat,
Transportation engineering,
The University of Texas at Austin

24th Feb 2010

Making Of A Janmarg - First Full Brts In India

By Prof. H.M. Shivanand Swamy,
Prof and Associate Director,
Centre for Environmental Planning and Technology
(CEPT), AHMEDABAD

23rd Apr 2010

Measures for Enhancing Road Safety on Non-Urban Roads

By Dr. S. Gangopadhyay, Director,
Central Road Research Institute,
New Delhi

30th Apr 2010

Frogs In The City: What Do They Indicate?

By Dr. K.V. Gururaja, Research Scientist,
CISTUP

30th Apr 2010

Infectious Diseases and Malformations in Frogs: Are We Too Follow?

By Dr. H.P. Gurushankara, Postdoctoral Fellow
Department of Bioscience, University of Mysore, PG
Centre, Hemangotri, Hassan.

23rd Jul 2010

An Integrated Framework For Analysis Of Water Supply In A Developing World City

By Dr. Veena Srinivasan
Environmental Earth System Science Department,
Stanford University,

Workshops

WORKSHOP ON "TRANSPORT NETWORK FOR INDIA VISION 2020"

on 22nd April 2010

Conveners: Prof. T.G. Sitharam and Dr. Kota Harinarayan

Co-ordinator: Deepak Baidur

Objectives:

- To review the infrastructure and service markets of road, rail, air and waterway transport modes in the Indian context;
- Undertaken an integrated, system approach to multimodal transport network that includes land, sea and air transport throughout India;
- To identify the key issues and challenges within and between the transport modes in India;
- To identify critical areas of research for realizing a comprehensive multimodal transport

List of Presentations:

Indian Air Transport	:	Prof. Kota Harinarayana, NAL
Indian Rail Transport	:	Mr. Ravi Babu, RITES
Indian Road Transport	:	Prof. M.N. Sreehari, Member ABIDE
Indian Intermodal Transport	:	Dr. Ashish Verma, C/STUP
Indian Waterways Transport	:	Mr. Deepak Baidur, C/STUP

A view of the workshop



WATER AND A CITY - A DOCUMENTARY FILM ABOUT BANGALORE'S

RELATIONSHIP WITH WATER on 22nd April 2010

Directed by: Swati Dandekar,

Duration: 52 minutes



Pipes carrying waters of the Kaveri to Bangalore



Queuing up for water

Synopsis: With growing urbanization across India, many towns and cities are crying for more water. How much of the perceived shortage of water is due to a lack of resources, and how much due to lack of awareness and poor management? Located in Bangalore, India's IT capital, the film traces the journey of water into and out of urban homes. Along this journey, it looks at access to water for the poor, the politics of water pricing, urban India's continuous exploitation of natural resources, and explores possible alternatives for a sustainable water future.

ACADEMIC INITIATIVES

New M.Tech programme: New M.Tech programme in Transportation & Infrastructure Engineering is commencing in the Institute from this Academic year 2010, The total number of applications received for this new course was 308 out of which only 107 candidates were shortlisted for the written test. From this only 50 candidates were called for interview. From among this 50 only Nine (9) candidates were selected from the general category.

Total number of applications received from the sponsored candidates (from the Stakeholders of CISTUP i.e. KSRTC, BMTC) was 13 out of which five (5) candidates were selected.

Research Admissions: Institute has offered Research Programme in the Transportation & Infrastructure Engineering Stream through the Civil Engineering Department to CISTUP. Those candidates who opted for this particular subject were interviewed at the centre and Six candidates were selected for Research Admissions in the centre.

The Post Doctoral Research Fellowships: The Post Doctoral Research Fellowships programme is initiated at the centre to encourage talented young researchers to interact with the centre's faculty and motivate them to pursue a research career. Selected fellows get the opportunity to participate in the centre's research and publications. This fellowship is aimed at candidates who have completed their PhD in the past six years and also have professional and/or research experience.

Out of 5 applications received, the interview committee after conducting the interview of all the candidates, selected two who have joined for the Post Doctoral Fellowship of CISTUP

Summer Young Research Fellowships: The centre at Indian Institute of Science [IISc] offered Summer Young Research Fellowships for two months to bright undergraduate (Bachelor of Engineering, Bachelor of Science – PCM) and M Sc (Environment Science, Geology, Geography), M Tech/ME students. Students are placed with Research groups at the Centre, Associate Faculty of the centre or with the faculty at Indian Institute of Science. Selected students get the opportunity to participate in the centre's research and publications. The programme is initiated at the Centre to encourage young talented students to interact with the scientists and motivate them to pursue a research career. Out of the 35 applications received the review committee after scrutiny and review shortlisted 10 candidates for the Young Research Fellowship award for this academic year.

OTHER ACTIVITIES AT THE CENTRE

Cateye:

CISTUP has accepted the initiative of the Security Officer of the Institute for sponsoring the installation of Cat Eyes within the campus for upgrading the Institute Road Safety issues-which happens to be one of the Theme areas of the centre. A total of 250 CATEYE's are installed within the Institute Campus.



A View of cat eye installation on Road

Our Institute Security Officer Mr. Chandrasekhar said

"Prof T.G.Sitharam Chairman CISTUP was gracious to sponsor fixing of CAT EYE road reflectors to improve the visibility of road edges and traffic Signage at certain stretch of the road. We thank for his initiative and generous support".

CISTUP Library:

CISTUP Library was established in order to provide the information and documentation support to the manpower working in the organization. The library is building a good collection of documents in the domain area of the organization and providing various kinds of library services to the users.

CISTUP Library has established a well automated library system with the help of software e-Granthalaya developed by NIC. The software provides all kinds of features required to automate the in-house activities as well as library services. The library web OPAC is a web based user interface to access the library catalog for searching. The web OPAC also provides the secured way of accessing member specific information from the library.

Academic Activities



CISTUP Library

Bicycle library: It is a unique library section with books, magazines and newsletters on Bicycle and its utility. A few in the list are Bike for Life, Bicycle and Planning for cycling. We intend to maintain a wide variety of Books on cycling issues, and already have more than twenty books on cycling and related issues.



A view of Cycling books

Services: Borrow, renewal, reservation, and recall, CAS, Recent additions, SDI, Reprographic service, Referral service, Display of announcement, Recommendations of documents, Internet Bibliographic search systems at the Web site <http://10.158.11.21/granth2/welcome.asp> and Email facility.

AN INITIATIVE OF GREENING JUBILEE GARDENS – PLANTING OF SAPLINGS TO CELEBRATE THE INTAKE 100TH BATCH OF IISc STUDENTS AND 1ST BATCH OF CISTUP STUDENTS

It is proposed to celebrate the unique event of intake of 100th batch of students to IISc academic programme and also the first batch of students to the new programme – M Tech programme at CISTUP, planting of tree sapling in IISc campus is envisaged. This is significant that the trees planted would mark the beginning of the saga for

centuries to follow. The freshers (new students) will have the opportunity not only planting but also to nurture them during their stay on campus. IISc has actively taken up planting of saplings on the campus to replenish in the surroundings of new departmental buildings. Similar such programme was implemented on 5th June – the World Environment Day and about 600 saplings were planted around Aerospace engineering and Physical sciences buildings. The proposed planting would be taken up at Jubilee Gardens, which has incidentally completed 25 years of existence.

This initiative would be jointly implemented with the participation of Centre for infrastructure, Sustainable Transportation and Urban Planning (CISTUP), IISc Nursery, IISc Green Gang and IISc student Council.



A View of the event

Saplings of several indigenous species would be procured for this purpose in order to generate a healthy native population of trees on the campus. Each of the student/Faculty members will be given the opportunity of planting a sapling and each sapling will have identification tag with the ID of the species, date of planting and other details (Name, SR number and the academic programme). This enables the student/Faculty to adopt and nurture a sapling for the period of their stay in IISc campus and also later.

News:

Executive Council & RAAC of CISTUP—Mr. R.M.N.Sahai who has taken charge as Director General of EMPRI was inducted into the EC of CISTUP in place of Mr. B.Basappa, former Director General of EMPRI who is now transferred as Director Institute of Wood Technology.

RAAC- Mr. R.M.N.Sahai was also inducted to the RAAC of CISTUP in place of Mr. B.Basappa.

HERE'S HOW TO BETTER B'LORE: REDUCE PRESSURE ON CITY BY DEVELOPING NEIGHBORING CITIES

(Appeared in DNA Newspaper on June 21st 2010)

- Prof T.G. Sitharam



Bangalore has expanded from 175sq km in 1971 (with about 20 lakh population) to about 800sq km today (of 70 lakh plus population), bringing urban sprawl and dispersal of development. Due to this, motorists have to travel longer distances to meet their daily needs, most being done with personal vehicles.

Bangalore renewal planning strategies must integrate land use and transportation to improve economic and social environments, based on sustainable development for the city that is suffering from haphazard growth. To manage a city's growth, zoning and growth management, along with appropriate use of available land for public infrastructure, is essential. Infrastructure development should be inclusive and quick. Collaborative ways of strategic planning, implementation and monitoring of goals are viable alternatives. Compared to large scale road widening to decongest traffic, it is better to maximize accessibility of an area by practicing inclusive design. Regarding good transport integrated planning, which attempts to place higher densities of jobs or residents near high-volume transportation (like metro, BRTs and circular railway), needs to be done with inter-modal connectivity.

Planning authorities must encourage higher densities with higher floor area ratios to reduce per-capita infrastructure costs. Parking requires small garages near high density areas, and historic, religious or social centres need to be integrated into renewal plans. Successful urban renewal plans, supported by regional planning in neighboring cities like Tumkur, Mysore, Kanakapura and Hassan, will help reduce congestion. Development of tier II cities like Bellary, Belgaum and Hubli-Dharwad, with large-scale, job-creating industries can reduce migration of people to Bangalore.

Environmental conservation, along with development of parks and playgrounds, must be given utmost importance. Water supply must be taken up very seriously through rejuvenation of the Arkavathi catchment, storing more water at TG Halli reservoir, and adopting rainwater harvesting techniques. Restoration of old buildings, roads and basic infrastructure like power, water and sewerage is very essential.

Environmental planners must focus on smaller energy production systems and waste disposal plans. Tax benefits must be provided for green buildings and adopting green technologies.

Attempts should be made to reduce noise pollution. Fire, flood, and other emergencies can often be mitigated by identifying secure emergency evacuation routes and building emergency centers.

Planning resources and strategies are needed to address problems of slum development. Urban reconstruction development plans must work with government agencies and private interests to develop workable methods. Democratisations of planning and development processes have played a huge role in allowing the public to make important decisions; these needs to be strengthened. A framework for continuous presence of elected local-level governments for their effective functioning to ensure provision of urban services and infrastructure must be strengthened.

(The writer is the chairman, Centre for infrastructure, Sustainable Transportation and Urban Planning (CISTUP), Indian Institute of Science)

WELCOME CEREMONY FOR THE FIRST BATCH OF M.TECH (TRANSPORTATION AND INFRASTRUCTURE ENGINEERING) AND RESEARCH STUDENTS OF CISTUP



M. Tech Students, Research Students and Associate Faculty

To welcome the First batch of Students in the New M.Tech in Transportation & Infrastructure Engineering and also the Research Students in CISTUP a get together function with High Tea was organized at CISTUP class room on 4th August at 5.00 pm for the entire Fresher's along with the Associate Faculty of CISTUP and the Staff at CISTUP.

Prof. Mujumdar, Chairman of Civil Engineering and Prof. T.G. Sitharam, Chairman of CISTUP along with few other Associate faculty of CISTUP participated in the welcome ceremony.

Latest Awards Received by Karnataka State Road Transport Corporation (KSRTC)
from March 2010 to July 2010, C/STUP congratulates KSRTC for getting the following awards.

- KSRTC BAGS "GOLDEN PEACOCK ECO-INNOVATION AWARD-2010"
- KSRTC receives the "CHIEF MINISTER RATHNA AWARD" for the year 2009-10
- KSRTC receives the BEST 'Public Sector bus fleet operator of the year' award



Golden Peacock Award



Rathna Award

International Award to BMTC

C/STUP congratulates BMTC for getting the UITP-ITF International Award for 2010. UITP is the International Public Transport Association representing over 2700 city local, regional and national transport system in over 90 countries worldwide. This Association is an International forum for liaisoning between professional public transporters and public transport providers. UITP develops policy regarding public transport and encourages communication and debates. UITP is a major propagator and co-ordinator of public transport. On considering the excellent performance in the field of commuter friendly initiatives, IT initiatives and environmental friendly initiatives BMTC was honoured with special award titled "SPECIAL MENTION FOR TRANSPORT OPERATION: WIDE APPLICATION OF INNOVATION" during UITP conference held on 27.03.2010 at Leipzig, Germany.

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C/STUP Stall at Karnataka State Council for Science and Technology (KSCST) Exhibition
held on 15th to 17th April 2010
at J.N. Tata Auditorium Hall,
IISc, Bangalore.



C/STUP Stall At KSCST Exhibition



Visitors at C/STUP Stall