

## PROGRAM



October 15-16, 2013

**Venue:**

Mini Auditorium, Design Centre, MNIT  
Jaipur

**Organized by:**

Malaviya National Institute of Technology  
Jaipur,  
Jaipur, India

**Sponsored by:**

Ambuja Cements Ltd., India  
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**Supported by:**

The Asian Concrete Federation

website : [yrgs2013.mnit.ac.in](http://yrgs2013.mnit.ac.in)

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Malaviya National Institute of Technology  
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Associate Professor, Department of Civil  
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Head, Department of Civil Engineering,  
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Vinay Aggarwal  
Y.P. Mathur

<b>MONDAY OCTOBER 14, 2013</b>	REGISTRATION 17:00 – 19:00	Mini Auditorium
	MEETING OF THE STEERING COMMITTEE 17:00 – 19:00	New Senate Hall
<b>TUESDAY OCTOBER 15, 2013</b>	REGISTRATION 08:00 – 09:00	Mini Auditorium
	OPENING CEREMONY 09:00 – 09:40	Mini Auditorium
	COFFEE BREAK 09:40 - 10:00	
	SESSION 1 10:00 - 12:00	Mini Auditorium
	LUNCH 12:00 - 13:30	
	SESSION 2 (Parallel with Session 3) 13:30 - 15:00	Mini Auditorium
	SESSION 3 (Parallel with Session 2) 13:30 - 15:00	Seminar Hall
	COFFEE BREAK 15:00 - 15:20	
	SESSION 4 (Parallel with Session 5) 15:20 - 17:00	Mini Auditorium
	SESSION 5 (Parallel with Session 4) 15:20 - 17:00	Seminar Hall
SOCIAL EVENING & DINNER		
<b>WEDNESDAY OCTOBER 16, 2013</b>	REGISTRATION 08:00 – 09:00	Mini Auditorium
	SESSION 6 (Parallel with Session 7) 09:00 – 10:30	Mini Auditorium
	SESSION 7 (Parallel with Session 6) 09:00 – 10:30	Seminar Hall
	COFFEE BREAK 10:30 - 10:50	
	SESSION 8 – organized by the Asian Concrete Federation 10:50 – 12:30	Mini Auditorium
	LUNCH 12:30 - 14:00	
	CONCLUDING SESSION 14:00 - 15:00	Mini Auditorium

**OPENING CEREMONY**

09:00 – 09:40

**INTRODUCTORY REMARKS**

Prof. I.K. Bhat, Symposium Patron,  
Director, Malaviya National Institute of  
Technology Jaipur, India

**COFFEE BREAK**

09:40 - 10:00

**SESSION 1**

10:00 - 12:00

Chairs: Prof. H. K. Chai, University of Malaya,  
Malaysia

Prof. Y. Kobayashi, Nihon University,  
Tokyo, Japan

S. B. Singh\*, Madappa. S, Nikesh  
Thammishetti

\* Profesor, BITS Pilani, India

**Ductile FRP system and its structural  
applications**

K. A. Patel, Sandeep Chaudhary, and A. K.  
Nagpal\*

\* Dogra Chair Professor, Indian Institute of  
Technology Delhi, India

**An element incorporating cracking in  
reinforced concrete beams at service load**

P.K. Gupta, Indian Institute of Technology  
Roorkee, India

**Efficiency of steel tube and concrete core  
in circular and square concrete filled steel  
tubular columns**

M.K. Banerjee, Steel Chair Professor, MNIT  
Jaipur, India

**New generation steels for structural  
applications**

Saroj Mandal, Jadavpur University, India

**Bacterial Concrete: A Prospective Material**

Mr. Sanjeev K. Sharma, RSO Head,  
Customer Support Grp, Ambuja Cements Ltd.

**Ambuja Cement – Partners in high  
performance, high strength concrete**

## **LUNCH**

12:00 - 13:30

## **SESSION 2 (Parallel with Session 3)**

13:30 - 15:00

Chairs: Prof. A.K. Nagpal, Dogra Chair  
Professor, IIT Delhi, India

Prof. S. B. Singh, BITS Pilani, India

Mosbeh R. Kaloop, Mohamed A. Sayed, and  
Dookie Kim

**Damage detection of cable-stayed bridge  
using combined GPS and accelerometer  
observations**

Bhagyashree Naik, Sandeep Nighojkar, and  
Umesh Pendharkar

**Artificial Neural Network Models for  
Prediction of Differential Settlement of Bi-  
Angle Shape Skirted Footing In Yellow Soil  
Subjected to Eccentric Load**

Kaustav Sarkar, and B.Bhattacharjee

**Analysis of moisture ingress in concrete  
subjected to rainfall exposure in a  
composite tropical climate**



Zubair Iqbal Sheikh and Umesh Kumar  
Pandey

**Validation of stress-strain model of  
confined concrete**

Peeyush Chowdhary, and Ravi K. Sharma  
**Review of evaluation procedures  
considering creep and shrinkage effects in  
tall buildings**

Anshuman, Ashu Airan and Dinesh Kumar  
**Analysis of composite plates subjected to  
compressive loading using hyperworks**

**SESSION 3 (Parallel with Session 4)**

13:30 - 15:00

Chairs: Prof. P.K. Gupta, Indian Institute of  
Technology Roorkee, India

Dr. Raktipong Sahamitmongkol,  
Thammasat University, Thailand

Yasser Bigdeli, Dookie Kim, Jeongyun Do,  
SeongOh Guk

**Control of structures using Neuro-Wavelet  
algorithm**

Suresh Kumar Walia, Hemant Kumar Vinayak,  
Ashok Kumar Mathur, and Raman Parti  
**Retrofitted Steel Bridge with Frequency  
and Mode Shape Changes**

Raghavendra D. Naik, and Pravin M. Singru  
**Asymptotic & technical stability of a  
nonlinear quarter-car model with multiple  
time-delays**

Minhaj Majeed and Pankaj Kumar  
**Shear stud connectors in steel-concrete  
composites: A Review**

Manish Varma, Ravi K. Sharma, and Umesh  
Pendharkar

**Short-term deflection of two-way RC slab  
using improved procedure**

Dinesh Kumar and Kanshik Sharma  
**Modeling and analysis of functionally  
graded beam**

**COFFEE BREAK**

15:00 - 15:20

**SESSION 4 (Parallel with Session 5)**

15:20 - 17:00

Chairs: Prof. S. B. Singh, BITS Pilani, India  
Prof. H. K. Chai, University of Malaya,  
Malaysia

Akash Raj, Abhishek Singh and Hrishikesh  
Sharma

**Blast loading and blast effect on  
reinforced concrete building**

Priyansha Mehra , R.C.Gupta, and Anurag  
Misra

**Utilization of Jarosite in concrete**

Anish D. Shah, Nishant R. Chokhani, Rohit S.  
Lad, Kiran D. Mali, and Pravin M. Singru

**Effect of thermal gradient on free vibration  
of rectangular plate with thickness varying  
exponentially in one direction**

Presentation by Mr. Yogesh Barot, Group  
Head, Customer Support Group,  
**Ambuja Cements Ltd.**

Mr. Divya Prakash

**Altair HyperWorks - addressing challenges  
of Civil Industry**

Ashu Airan, Anshuman, and Dinesh Kumar

**Effects of Various Material Combinations  
and Lay-ups on Response of Composite  
Laminate under Transverse Loading using  
Hyperwork**

**SESSION 5 (Parallel with Session 4)**

15:20 - 17:00

Chairs: Dr. Raktipong Sahamitmongkol,  
Thammasat University, Thailand  
Prof. Ravi. K. Sharma, MPUAT,  
India

Parveen, Ankit Sharma, and Dhirendra  
singhal

**Mechanical properties of geopolymer  
concrete - A state of the art report**

Sarbjeeet Singh and Ravindra Nagar  
**Utilization of granite powder waste in  
concrete as partial replacement of cement**

Dinesh Kumar Sharma, B.L. Swami, and A. K.  
Vyas

**Study on design of hot mix asphalt using  
waste copper slag**

P.V. Ramana and Pooja T.S.  
**Dynamic beam analysis for Piano & Violin  
functions**

Rajshree Charan, M.K.Shrimali, S.D.Bharti,  
P.V.Ramama  
**Control and optimization of dynamic  
system using artificial neural network**

Suvashika K.  
**Study of chemical retrofitting of tsunami  
relief structures in Nagapattinam, Tamil  
Nadu**

**WEDNESDAY, OCTOBER 16, 2013**

**SESSION 6 (Parallel with Session 7)**

09:00 - 10:30

Chairs: Prof. Y. Kobayashi, Nihon University,  
Tokyo, Japan

Prof. C. D. Modhera, SVNIT Surat,  
India

D. Adak and Saroj Mandal

**Durability study of fly ash based  
geopolymer concrete and conventional  
concrete**

Rajesh Kumar

**Nature inspired algorithms for engineering**

Saswati Dey and Kamal Bhattacharya

**Bearing reactions of a two-span  
continuous steel box-RC deck composite  
bridges under earthquake excitations**

J. Chen, F. Xu, W. L. Jin and Y. Ye

**Design of concrete-filled steel tubular CHS  
joints**

P. K. Gupta, S. K. Katariya

**A study on concrete filled rectangular  
steel tubes subjected to bending**

Trilok Gupta, Bhavna Tripathi, Ravi K.

Sharma, and Sandeep Chaudhary

**Flexural strength, compressive strength  
and workability of waste rubber concrete**

**SESSION 7 (Parallel with Session 6)**

09:00 - 10:30

Chairs: Prof. P.K. Gupta, Indian Institute of  
Technology Roorkee, India

Dr. Umesh Kumar Pandey, NIT  
Hamirpur, India

Bartik Pandel, Anupam Singhal, and  
Anuradha Devi

**An Overview of Utilization of Spent  
Pickling Sludge with Fly Ash in Cement  
Concrete Production**

Y. C. Koay and H. N. Ang

**An Overview of Bridge Inspection  
Processes in Australia**

Banti. A. Gedam, N. M. Bhandari, and Akhil  
Upadhyay

**An apt material model to predict creep  
and shrinkage behaviour of HPC concrete**

P.V. Ramana and Surendra Nath A

**A novel analysis for super-structures**

Pankaj Kumar and Sandeep Chaudhary

**Experimental investigations for shear  
bond strength of steel and concrete  
bonded by epoxy**

## **COFFEE BREAK**

10:30 - 10:50

## **SESSION 8 – organized by the Asian Concrete Federation**

10:50 - 12:30

Chairs: Prof. C. D. Modhera, SVNIT Surat,  
India

Prof. M.K. Banerjee, MNIT Jaipur,  
India

F. W. Lee and H. K. Chai

**Defect characterization of concrete structures by surface rayleigh wave methods**

Jian-Guo DAI, W.Y. GAO and J.G. TENG

**Fire performance of insulated FRP-strengthened RC beams: three-dimensional finite element modeling**

Y. Kobayashi, T. Shiotani, and K. Oda

**EffectS of number of events and relay point density on accuracy of three-dimensional AE-Tomography**

Pongsak Wiwatrojanagul and Raktipong Sahamitmongkol

**Inspection of Voids in Mortar by Active Infrared Thermography Method: Experiment Investigation and Numerical Simulation**

**LUNCH**

**12:30 - 14:00**

**CONCLUDING SESSION**

14:00 - 15:00

**ACF Award for Best Paper**

**Announcement of the next symposium :  
YRGS 2014**

# Jaipur City Map:



