

## Earthquake Engineering Review Workshop for Masters Students from Engineering Colleges across India at IIT Kanpur during 25-31 March 2003

### Brief Report:

A week long review workshop was organized at IIT Kanpur by the National Information Center of Earthquake Engineering (NICEE) during 25-31 March 2003 for Masters' students from across India. Sixty masters' students from 19 different engineering colleges across the country (list of participants enclosed) participated in this workshop and collected literature (more than 45,000 pages) on earthquake engineering relating to their post-graduate studies. The schedule of the workshop is enclosed herewith.

During the workshop a series of video shows were shown on issues related to seismic designing of structures and on past great earthquakes. The faculty members of the department of civil engineering at IIT Kanpur (Professors. Sudhir K. Jain, C.V.R. Murty, Durgesh C. Rai, NSV Kameswara Rao, and Vinay K. Gupa) had discussions with the participants about their topic of research in different sessions during the workshop. Dr. K.K. Bajpai demonstrated the state-of-the art testing facilities available at the Structural Engineering Laboratory of IIT Kanpur to the workshop participants.

An earthquake engineering quiz was also organized during the workshop in which 10 groups consisting of 6 students each participated and after preliminary rounds 4 groups reach the finals. The quiz contained the questions starting from basic concepts of earthquakes and how they happen to the current Indian Standards design codes, and analysis of earthquake resistant design, instrumentation, etc. The members of winning and the runners-up team were given certificate and prize.

Some photographs during different sessions of the workshop are also enclosed herewith.

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### Sponsors:

- Indian Institute of Technology Kanpur, Kanpur
- Council of Scientific and Industrial Research (CSIR) New Delhi
- National Programme on Earthquake Engineering Education (NPEEE), Ministry of Human Resource Development
- National Information Centre of Earthquake Engineering (NICEE), IIT Kanpur

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### List of Participants:

Sl.No.	Name of Student	College
1	Aditya Chandra	National Institute of Technology, Kurukshetra
2	Amol S. Karode	Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar
3	Amuthasheela R.	College of Engineering: Anna University
4	Ankit Sheth	Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar
5	Artiben Bhikhubhai Patel	Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar

6	Arun N Karanth	BVB College of Engineering & Technology, Hubli
7	Ashok Sahanubhuti	National Institute of Technology, Kurukshetra
8	Atish Dhanraj Biradar	Visvesvaraya National Institute of Technology Nagpur
9	Avinash Maruti Wadagule	Gogte Institute of Technology, Belgaum
10	B. Sachithanandham	Regional Engineering College, Trichy
11	Bhavin G Patel	Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar
12	Bishakha Chakraborty	Bengal Engineering College (Deemed University), Howrah
13	Debarati Datta	Bengal Engineering College (Deemed University), Howrah
14	Divyesh Bhalodiya	Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar
15	ERK Nishok	Coimbatore Institute of Technology, Coimbatore
16	Harshal K. Shah	L.D. College of Engineering, Ahmedabad
17	Hemendu V Godhasara	Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar
18	Hiteshkumar Babubhai Namha	Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar
19	Jigar K. Deliwala	L.D. College of Engineering, Ahmedabad
20	Jigar P. Shah	Visvesvaraya National Institute of Technology Nagpur
21	K. Karthick	College of Engineering: Anna University
22	Kamini Sharad Bhosle	Govt. College of Engineering Pune
23	Kedar P. Parte	Govt. College of Engineering Pune
24	Kiran S	SJ College of Engineering, Mysore
25	Krunal P Sheth	Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar
26	Loka Satya Prasad Macharla	Coimbatore Institute of Technology, Coimbatore
27	Madhukar Vasudev Ankam	Visvesvaraya National Institute of Technology Nagpur
28	Malagavelli Venu	Birla Institute of Technology and Science, Pilani
29	Maulesh Y Shah	Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar
30	Mushahid G. Shaikh	Walchand College of Engineering, Sangli
31	Naga Ravi Kiran Anne	Coimbatore Institute of Technology, Coimbatore
32	Nepoleon K.	Regional Engineering College, Trichy
33	Ninad A Ketkar	Govt. College of Engineering Pune
34	Pinakin Rajnikant Patel	Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar
35	Poonam Inderkumar Modi	L.D. College of Engineering, Ahmedabad
36	Pratik C. Khimani	Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar
37	R. Balaji	Coimbatore Institute of Technology, Coimbatore
38	Rahul Ashok Dingane	Govt. College of Engineering Karad

39	Rajesh Ghanshyamdas Shah	Govt. College of Engineering Karad
40	Rina D Patel	Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar
41	Rohit Y. Thawre	Visvesvaraya National Institute of Technology Nagpur
42	Rupali S. Bhamare	Govt. College of Engineering Pune
43	Rushikesh S. Trivedi	L.D. College of Engineering, Ahmedabad
44	S. Adishesu	Andhra University, Vishakhapatnam
45	S. Eswaran	Coimbatore Institute of Technology, Coimbatore
46	S. Jayaprakash	Regional Engineering College, Trichy
47	S. Karthikeyan	Pondicherry Engineering College, Pondicherry
48	Sachin Amrutlal Selot	Govt. College of Engineering Karad
49	Sandip Ganpatbhai Vadher	L.D. College of Engineering, Ahmedabad
50	Shubhada S. Patki	BVB College of Engineering & Technology, Hubli
51	Smit P Patel	Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar
52	Somesh Kumar	Thapar Institute of Engineering & Technology, Patiala
53	Sridhar Vedula	Manipal Institute of Technology, Manipal
54	Sunil M	SJ College of Engineering, Mysore
55	U. Chandana	Pondicherry Engineering College, Pondicherry
56	Umesh Ankush Gavas	Govt. College of Engineering Karad
57	V. Marimuthu	Coimbatore Institute of Technology, Coimbatore
58	Vishal Vinodchandra Shah	L.D. College of Engineering, Ahmedabad
59	Yogesh C. Kalamkar	Walchand College of Engineering, Sangli
60	Yusufi Jainuddinbhai Trunkwala	Institute of Science & Technology for Advanced Studies & Research, Vallabh Vidyanagar

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### **Inaugural Programme (25 March 2003):**

- 09:30 Assembly of participants at PBCEC Big Seminar Room and collection of introduction letters
- 10:00 Welcome (Prof. C.V.R. Murty, Civil Engineering Department, IIT Kanpur and Coordinator, NPEEE@IIT Kanpur)
- 10:10 About the NICEE and NPEEE (Prof. Sudhir K. Jain, Head, Civil Engineering Department, IIT Kanpur and Coordinator, NICEE & National Coordinator, NPEEE)
- 10:25 CDTE activities for next generation (Prof. Krishna Kumar, Head, CDTE, IIT Kanpur)
- 10:30 Inaugural Address by **Chief Guest: Prof. Kripa Shanker, Dy. Director, IIT Kanpur**
- 10:45 Vote of Thanks (Dr. K.K. Bajpai, Civil Engineering Department, IIT Kanpur)
- 10:50 Group Photo
- 11:00 Tea

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**Workshop Schedule:**

Literature survey all through except during the following hours

<i>Date</i>	<i>Time</i>	<i>Activity (Venue: Pioneer Batch Continuing Education Center)</i>
25 March 2003	9:30am	Inauguration
	11:30am	Introduction of Participants
	12pm	Discussion with <i>Professor Sudhir K. Jain</i>
	2pm	<i>Earthquakes: How they Happen!! (C.V.R.Murty)</i>
26 March 2003	9am	<i>Video shows on</i> <i>1. Seismic Design of Bridges by Public Works Research Institute (PWRI), Japan</i> <i>2. Leaning Tower of PISA by Parker Research Foundation, USA</i>
	2pm	Discussion with <i>Professor Durgesh C. Rai</i>
27 March 2003	9am	Discussion with <i>Professor N.S.V. Kameswara Rao</i>
	2pm	Discussion with <i>Professor C.V.R.Murty</i>
28 March 2003	9am	<i>Video show on</i> <i>1. Great Quakes San Fransisco by Discovery Communications, Inc., USA</i> <i>2. Resisting the Forces of Earthquakes by Earthquake Engineering Research Institute (EERI), USA</i>
	2pm	Computer Models with <i>Kaustubh Dasgupta</i>
29 March 2003	9am	<i>Video show on Great Quakes Mexico City by Discovery Communications, Inc., USA</i>
	2pm	<i>Visit to the Structural Engineering Laboratory (with Dr. K. K. Bajpai)</i>
30 March 2003	9am	<i>Video show on Earthquake Protective Design by American Society of Civil Engineers (ASCE), USA</i>
	2pm	<i>Earthquake Engineering Quiz</i>
31 March 2003	9am	Reimbursement of Travel Expenditure
	3pm	Closing Ceremony

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**Closing Ceremony (Monday, 31 March 2003):**

2:00 *Welcome*

Professor C.V.R. Murty, Department of Civil Engineering, IIT Kanpur

2:05 *The Workshop :: In retrospect*

Professor Sudhir K. Jain,

Head, Department of Civil Engineering, IIT Kanpur and Coordinator, NICEE

2:15 *Distribution of Certificates*

2:30 *Valedictory Address*

Professor Krishna Kumar, Head, CDTE, IIT Kanpur

- 2:40      *Presidential Address*  
Professor Kripa Shanker, Deputy Director, IIT Kanpur
- 2:50      *Vote of Thanks*  
Dr. K. K. Bajpai, Department of Civil Engineering, IIT Kanpur
- 2:55      *Tea*
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**Workshop Photos:**



Literature Review at NICEE, IIT Kanpur



Visit to Structural Engineering Laboratory (Pseudo-Dynamic Testing Facility)



Visit to Structural Engineering Laboratory (Material Testing Facility)



Visit to Structural Engineering Laboratory (Dynamic Experiment Demonstration )



Earthquake Engineering Quiz



Students' Group participating in Earthquake Engineering Quiz