



# National Information Centre of Earthquake Engineering

Indian Institute of Technology Kanpur

Annual Report

April 2009 – March 2010

## Inter School Quiz on Earthquake Tips

NICEE has conducted an inter school quiz competition on Earthquake Tips, the final round of which was held on 26 January 2010 at Outreach Auditorium, Indian Institute of Technology Kanpur, Kanpur.



### Winner of Final Quiz

School Gorakhpur, Jagat Taran Golden Jubilee School Allahabad and City Montessori School, Station Road Branch Lucknow. The participants of these schools participated in the final quiz which was held on 26 January 2010 at IIT Kanpur. The quiz had four rounds viz. Round Robin, Picture Round, Rapid Fire Round and Lucky number Round. The questions were mostly from the publication "IITK-BMTPC Earthquake Tips" by Dr. CVR Murty and some questions were based on the past earthquakes in India and in other countries. The winning team of the final quiz - Jagat Taran Golden Jubilee School, Allahabad - was represented by Ms. Hemangi Das, Ms. Arunima Singh, Mr. Pradyot Srivastava and Mr. Tanoy Banerjee and scored 81 points.

The team of Karam Devi Memorial Academy, Kanpur represented by Ms. Stuti Verma, Mr. Ayush Sitholay, Mr. Saurabh Singh and Mr. Gaurav Uttam came second scoring 70 points while the team of Sir Padampat Singhania Education Centre, Kanpur represented by Ms. Lovee Mehra, Mr. Vaibhav Bhasin, Mr. Siddharth Dubey and Mr. Anmol Srivastava scored 64 points to bag the third position. Gorakhpur team scored 59 points while the Lucknow team scored 58 points. The quiz was supported by BMTPC and the Poonam and Prabhu Goel Foundation, IIT Kanpur.

Based on the feedback and enthusiasm of the participating schools, it is proposed to hold this quiz as an annual event with the final round of quiz being held on 26 January every year to memorialize the devastating Bhuj Earthquake of 2001. It will be our endeavour to include more and more cities of neighboring areas during the forthcoming years.

For further details and the procedure for participating in the quiz please visit <http://www.nicee.org/Quiz/>

30 schools participated in the preliminary rounds which were held in Kanpur (10 schools) on 18 December 2009 and 21 January 2010; in Allahabad (7 schools) on 05 January 2010; in Lucknow (7 schools) on 08 January 2010 and in Gorakhpur (6 schools) on 11 January 2010. The winners of preliminary rounds were KDMA Kanpur, Sir Padampat Singhania Education Centre, Kanpur, Army Public

## Change of Command

Consequent to Prof. Sudhir K. Jain moving to take over the reins of IIT Gandhinagar as the Director, Dr. Durgesh C. Rai who has been associated with NICEE since its inception has taken over as the Coordinator of NICEE since June 2009.

Dr. Rai obtained his doctorate from University of Michigan, Ann Arbor, MI (USA) (1996), has been with IIT Kanpur since December



Dr. Durgesh C. Rai

2001. He has also held prestigious appointments at IIT Roorkee, University of Michigan and University of Oklahoma. He is a Structural Engineer with emphasis on Earthquake Engineering. NICEE team welcomes Dr. Rai as its Coordinator and wishes Prof. Jain a grand success in his new venture.

## From the Coordinator

The year 2009-2010 was rather eventful for NICEE. In addition to normal activities of NICEE which continued during the year, an Inter school quiz on Earthquake Tips for school children to spread the message of seismic safety to the future flag bearers of the country was also conducted. NICEE received a good support from well-wishers during the year. This Annual Report highlights some of our major initiatives during this past year. We welcome your suggestions and feedback at [nicee@iitk.ac.in](mailto:nicee@iitk.ac.in).

## Institutional Members

NICEE thanks its Institutional members and acknowledges their continued support to NICEE.

**GOLD SUBSCRIBING MEMBERS** - Tandon Consultants Pvt Ltd, New Delhi

### Workshop for Architecture Students

The second Workshop on Earthquake Resistant Practices for Undergraduate Students of Architecture was conducted at IIT Kanpur during July 07 – 11, 2009. The workshop was attended by 55 students from 18 colleges from all over India. The aim was to sensitize the students of architecture in earthquake resistant design practices through technical lectures followed by design studios where they were given guidance in earthquake resistant design by working on an architectural design project.



The resource persons included Prof. Keya Mitra of Bengal Engineering & Science University, Shibpur; Dr. Mahua Mukherjee of IIT Roorkee; Dr. Vasudha Gokhale and Dr. Meera Shirolkar of Dr. B. N. College of Architecture for Women, Pune; Prof. Bhavna Vimawala and Prof. Nehal Desai of Sarvyayanik College of

Engineering and Technology, Surat. The final designs were evaluated by a Jury Board consisting of Mr. R. K. Kakar, Chief Architect, CPWD, New Delhi; Prof. Persi Engineer, Director, Sarvyayanik College of Engineering and Technology, Surat; Prof. V. R. Shah, CEPT, Ahemdabad and Prof. Durgesh C. Rai of IIT Kanpur.

The workshop was sponsored by Council of Scientific and Industrial Research, New Delhi; Computers and Structures Inc, Berkeley, U.S.A, and the Poonam and Prabhu Goel Foundation, IIT Kanpur.

For more information please visit:

[http://www.nicee.org/Architecture\\_Workshop/Report\\_2009/](http://www.nicee.org/Architecture_Workshop/Report_2009/)

### Winners at the Architecture Workshop

FIRST PRIZE

**Gunjan Bhushan Jain** of Smt. MM College of Architecture, Nagpur

**Darshan K. Maru**, Sir JJ College of Architecture, Mumbai

SECOND PRIZE

**Shruti Ashok Dudhane** of BKPS College of Architecture, Pune

**Samanth Godthi** of Andhra University, Visakhapatnam

THIRD PRIZE

**Anisha Malhotra** of Dr. DY Patil College of Architecture, Pune

**Preeti Sonal** of Birla Institute of Technology, Mesra, Ranchi



### Revised Publications during 2009- 10

IITK-BMTPC Earthquake Tips (*Revised Version*)

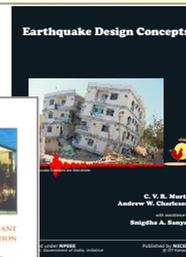
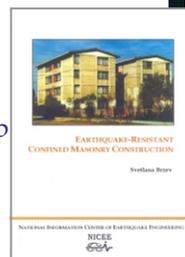
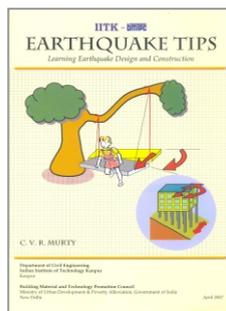
C.V.R. Murty.

Architectural Teaching Resource Material on Earthquake Design Concepts for Teachers of Architecture Colleges (*Revised Version*).

C. V. R. Murty & Andrew W. Charleson

Earthquake-Resistant Confined Masonry Construction. (*Revised Version*)  
Svetlana Brzev

Full list of NICEE publications and products available at: [www.nicee.org/Publications.php](http://www.nicee.org/Publications.php)



### Institutional Memberships

In addition to Platinum and Gold Institutional Memberships, NICEE has initiated Silver Subscribing Membership.

#### PLATINUM SUBSCRIBING MEMBERS

(₹ 4 lakh/year and up ~ US\$ 10,000 per year)

#### GOLD SUBSCRIBING MEMBERS

(₹ 1 lakh/year and up ~ US\$ 2,500 per year)

#### SILVER SUBSCRIBING MEMBERS

(₹ 25 thousand/year and up ~ US\$ 550 per year)

## PG Literature Review Workshop

This Annual Workshop was conducted at IIT Kanpur during 27 August - 05 September, 2009. 60 Postgraduate students from colleges across India participated in this. The participants were encouraged to make use of available literature at NICEE library and the Central Library of IIT Kanpur for doing quality research work. They were also provided access to internet for downloading the research materials. During the workshop a quiz on Structural Engineering was also conducted. The winners are as follows.

FIRST PRIZE (₹ 3000/-)

**Amrut Anant Joshi** of  
Indian Inst. of Science, Bangalore

SECOND PRIZE (₹ 2000/-)

**Digvijay B. Patankar** of  
Indian Inst. of Science, Bangalore

THIRD PRIZE (₹ 1000/-)

**Amber Ramesh Agrawal** of  
VNIT, Nagpur

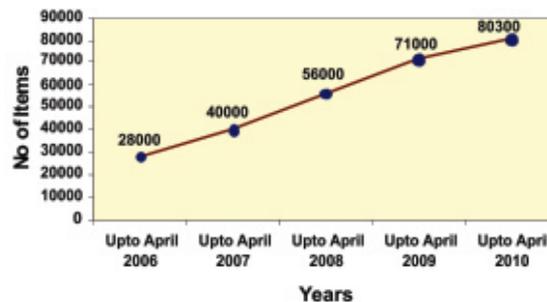
The sponsors of the workshop were Council of Scientific and Industrial Research, Computers and Structures, Inc and the Poonam and Prabhu Goel Foundation at IIT Kanpur.

## Translations into Local Languages

The translation of most popular document of NICEE "IITK-BMTPC Earthquake Tips" into local languages is also in progress. Several enthusiastic supporters of NICEE have come forward to take up this work voluntarily. The translation in Marathi has already been completed and all tips are available at our website: <http://www.nicee.org/eqtips.php>. The translation work in Punjabi by Er. Karnail Singh and in Gujarati by Prof. C. S. Sanghvi is in advance stage and likely to fructify during the forthcoming year.

## Aggressive Dissemination of Literature

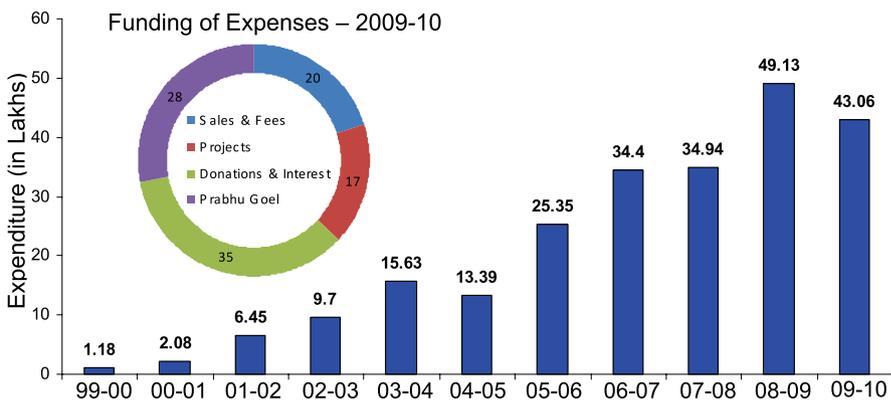
During the year, about 9,300 copies of books, monographs, CDs, and journal issues were distributed. Till date, NICEE has distributed about 80,300 such items.



## Earthquake Engineering Practice

The quarterly periodical *Earthquake Engineering Practice* continues to gain popularity. Its subscription list as of March 2010 stands at 2,695 from 62 countries. The periodical is being financially supported by the Computers & Structures Inc. (CSI), Earthquake Engineering Research Institute (EERI), Poonam and Prabhu Goel Foundation at IIT Kanpur, and the numerous other donors of NICEE. The annual expenditure on the periodical is to the tune of ₹10.0 lakhs.

## NICEE Financials



With a healthy growth of NICEE activities, the overall expenditure during the year stood at about ₹ 43 lakhs (₹ 49 lakhs last year). This was covered by a healthy mix of resources from various sources: 20% from sales and fees, 17% from projects and sponsorship of activities, 35% from donations and interest income of endowment, and 28% from the Poonam and Prabhu Goel Foundation at IIT Kanpur.

The sale proceeds from publications and monographs were ₹ 8.5 lakhs as compared to ₹ 8.95 lakhs last year. The number of donors this year were 77 (significantly smaller as compared to 144 last year) contributing a total of ₹ 4.8 lakhs (₹ 13.2 lakh last year). Due to this decreased support from the donors NICEE did have somewhat turbulent times resulting in scaling down of several activities of NICEE and curbing the new initiatives. The median donation to NICEE has also gone down from ₹ 3,000 during 2008-09 to ₹ 2,500 during 2009-10. Since inception, NICEE has received one or more donations from a total of 407 donors: this is a great endorsement of its activities by its friends and well wishers.

## ₹ 1,00,000/- to ₹ 3,99,999/-

Tandon Consultants Pvt. Ltd., New Delhi, DL

## ₹ 20,000/- to ₹ 99,999/-

Grasim Industries Limited, New Delhi, DL  
Kishan Lal Pawan Kumar Jain, Kanpur, UP  
Shashi Kant Thakkar, Roorkee, UL

Shirish Patel and Associates Consultants Pvt. Ltd.,  
Mumbai, MH  
Robert Reitherman, California, USA

## ₹ 4,000/- to ₹ 19,999/-

Deepak B. Dave, Mumbai, MH  
V. L. Deshpande, Mumbai, MH  
International Consultants and Technocrats Pvt. Ltd., New Delhi, DL  
Isha Consultants (P) Ltd., New Delhi, DL  
Sudhir K. Jain, Ahmedabad, GJ  
Lalit Kumar Jain, Nagpur, MH  
Vikrant Joshi, Texas, USA  
Narayan Yeshvant Kochak, Pune, MH  
Hari Kumar, New Delhi, DL  
Suhasini N. Madhekar, Pune, MH  
Shrinivas N. Mahamuni, Mumbai, MH  
Sunil Rameshchandra Mistry, Ahmedabad, GJ

Keya Mitra, Howrah, WB  
Mahua Mukherjee, Roorkee, UL  
Robin Nani, Dibrang, AR  
V. V. Nori, Mumbai, MH  
Larry K. Nuss, Colorado, USA  
Kamal S. Parekh, Surat, GJ  
Durgesh C. Rai, Kanpur, UP  
P. Rao, Hyderabad, AP  
H. C. Salaria, Ludhiana, PB  
Trilochan Singh, New Delhi, DL  
Harshavardhan Subbarao, Mumbai, MH  
Jagdish Kumar Varma, Jaipur, RJ  
T. Viswanathan, New Delhi, DL

## Upto ₹ 3,999/-

Achintya, Muzaffarpur, BR  
Vijay Agrawal, Jaipur, RJ  
R. Sakthivel Amie, Madurai, TN  
Markar Bam, Wlsiang, AR  
C. S. Bhattacharya, Kolkata, WB  
Amit Kumar N. Bhavsar, Vallabh  
Vidyanagar, GJ  
Atul Chandra Boruah, Guwahati, AS  
Sudipta Chattopadhyaya, Kalpakkam, TN  
Debasis Dasgupta, Jalpaiguri, WB  
Hiren Gajendra Desai, Surat, GJ  
Aditi H. Deshmukh, Akola, MH  
Manish V. Doshi, Rajkot, GJ  
Anjan Kumar Dutta, Kolkata, WB  
Rajul Kaushik Gajjar, Ahmedabad, GJ  
Sunil Gandhi, Rajkot, GJ

Omprakash Gupta, Indore, MP  
G. K. Jaisinghani, Bangalore, KA  
O. R. Jaiswal, Nagpur, MH  
S. Janakumaran, Chennai, TN  
Sakthidevi Kalaivani, Pudducherry, PY  
P. Kamatchi, Chennai, TN  
Kitchley Consultants, Madurai, TN  
Hage Koyang, Itanagar, AR  
G. S. Arun Kumar, Davangere, KR  
Sanjeev Kumar, Ghaziabad, UP  
B. B. Ladge, Kolhapur, MH  
Jayant Lakhani, Rajkot, GJ  
Madurai ES Consultancy Services  
Pvt. Ltd., Madurai, TN  
Amit P. Mahajan, Buldana, MH  
K. Muthumani, Chennai, TN

S. Muthusamy, Chennai, TN  
M. L. Narasimhulu, Kurnool, AP  
Hage Obin, Namsai, AR  
Baki Ozturk, Ankara, Turkey  
N. V. R. K. Prasad, Eluru, AP  
Ashish Raghava, Ghaziabad, UP  
P. Ramesh, Itanagar, AR  
A. Balaji Rao, Hyderabad, AP  
M. Koti Reddy, Hyderabad, AP  
Naresh Sanghavi, Mumbai, MH  
Mridul Sen, Itanagar, AR  
Karnail Singh, Bathinda, PB  
N. Subramanian, Chennai, TN  
B. L. Swami, Jaipur, RJ  
Sandeep Kumar Verma, Indore, MP  
Kalom Yirang, Itanagar, AR

For more information, please contact

**Professor Durgesh C. Rai**  
*Coordinator, NICEE*

Department of Civil Engineering,  
Indian Institute of Technology Kanpur  
Kanpur 208016, India

Web: [www.nicee.org](http://www.nicee.org) E-mail: nicee@iitk.ac.in

Phone: +91 (512) 259 7866 Fax: +91 (512) 259 7794