



National Information Centre of Earthquake Engineering

Indian Institute of Technology Kanpur

Annual Report April 2011 - March 2012

NICEE Seminar on Earthquake Protection of Buildings

A Seminar on Earthquake Protection of Buildings was conducted during September 02-03, 2011 at IIT Hyderabad by Prof. CVR Murty and Prof. R. Pradeep Kumar, which was attended by 45 participants, majority of them being practicing engineers.



The aim of the workshop was to update the participants with the current methods of design and construction, ensuring earthquake-resistant buildings. The conduct of the seminar was sponsored by M/s Nagarjuna Construction Company (NCC), Hyderabad.

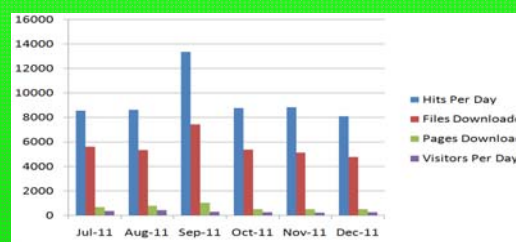
For details regarding the seminar please visit http://www.nicee.org/HYD_Seminar_Report.pdf

From the Coordinator

The year 2011-2012 unfolded new challenges for NICEE. During the year we published the revised edition of *Confined Masonry - A guidebook for technicians and artisans* by Ar. Tom Schacher. A project has been initiated to translate this monograph into local vernaculars. The publication on *Seismic Isolation and Earthquake Tips* (English version) were reprinted. Other regular activities like Inter School Quiz on *Earthquake Tips* for school children and workshops for Architecture & Civil Engineering students continued during the year. A team from IIT Kanpur visited the areas devastated by Sikkim Earthquake. NICEE continued to receive good support from its well-wishers during the year. This Annual Report highlights some of our major initiatives during this concluded year. We welcome your suggestions and feedback at nicee@iitk.ac.in.

Reconnaissance Report Sikkim Earthquake

The M6.9 earthquake hit Sikkim on 18th September 2011. The earthquake caused widespread damage and destruction in Sikkim with about 100 deaths reported in India with Sikkim bearing the maximum brunt of at least 60 deaths. A team of IIT Kanpur (*Durgesh Rai, Goutam Mondal, Vaibhav Singhal, Neha Parool and Tripti Pradhan*) visited the earthquake-affected areas during Sept 28 - Oct 6 and later briefed the local community and media about their observations on performance of built-environment and lessons that can be learned to mitigate the seismic risk in the region. Relevant NICEE publications such as *Earthquake Tips*, *Confined Masonry Construction*, etc., were given free of cost to officials and local populace at Sikkim. For further details please visit <http://www.nicee.org/Sikkim2011.php>



Increase in the NICEE website access recorded after the earthquake.

Institutional Members

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

PLATINUM SUBSCRIBING MEMBERS

Computers & Structures Inc., Berkeley, USA

GOLD SUBSCRIBING MEMBERS

Tandon Consultants Pvt Ltd, New Delhi

SILVER SUBSCRIBING MEMBERS

Bhagalpur College of Engineering, Bhagalpur
Indian Institute of Technology Madras, Chennai

Publications during 2011 - 12

NICEE publications revised and reprinted during the year.



List of NICEE publications and products: www.nicee.org/Publications.php

Inter School Quiz on Earthquake Tips

NICEE conducted an Inter School Quiz competition on *IITK- BMTPC Earthquake Tips*, the final round of which was held on 07 February 2012 at Outreach Auditorium, Indian Institute of Technology Kanpur, Kanpur.

Seventy schools participated in the preliminary rounds which were held in Kanpur, Delhi, Lucknow, Ambala, Chandigarh, Indore, Nagpur, Shimla, Jabalpur, Pune, Mumbai and Ahmedabad. The winners of preliminary rounds were: Bhavan's B.P. Vidya Mandir, Nagpur, Christ Church Girls Senior Secondary School, Jabalpur, City Montessori School, Station Road Branch, Lucknow, City Pride School, Pune, Dayanand Public School, Shimla, Green Fields School, Safdurjung Enclave, New Delhi, IITL Public School, Dwarka, New Delhi, Mount Carmel School, Chandigarh, Mukand Lal Public School, Yamuna Nagar, Pawar Public School, Mumbai, Rishi Public School, Gurgaon, Sainik School, Rewa, Sandraben Shroff Gnyandham School, Vapi and Dr. Virendra Swaroop Education Centre, Avadhपुरi, Kanpur. These schools participated in the finals held on 07 February 2012 at IIT Kanpur.



Winners of Final Quiz - Mukand Lal Public School, Yamuna Nagar represented by Anukriti, Shruti, Abhinandan and Naman.

The quiz had four rounds: Round Robin, Picture Round, Rapid Fire Round and Lucky Number Round. The questions were mostly from the publication *IITK-BMTPC Earthquake Tips* by Prof. CVR Murty and some questions were based on the past earthquakes in India and in other countries. The winning team of the finals with 80 points was Mukand Lal Public School, Yamuna Nagar represented by Ms. Anukriti Agnihotry, Ms. Shruti Sajwan, Mr. Abhinandan Shukla and Mr. Naman Arora. The team from Christ Church Girls Senior Secondary School, Jabalpur secured the second position scoring 73 points while the team from Bhavan's B.P. Vidya Mandir, Nagpur scored 67 points to bag the third position. The quiz was supported by BMTPC, New Delhi and the Poonam and Prabhu Goel Foundation, IIT Kanpur. The

preliminary round of the quiz at Delhi, Ambala, Chandigarh and Shimla was conducted by GeoHazards, New Delhi; whilst at Indore, Nagpur and Pune was conducted by Prof. Rakesh Khare, Prof. OR Jaiswal and Mr. Narayan Y. Kochak, respectively. NICEE takes pride in the efforts put in by them and their support teams, and acknowledges with gratitude their unstinted support to NICEE activities. The school quiz has now become an important annual event of NICEE. It will be our endeavour to include more and more cities from the neighboring areas during the forthcoming years. For further details and the procedure for participating in the quiz please visit <http://www.nicee.org/Quiz/>

Workshop for Architecture Students

The fourth workshop on Earthquake Resistant Practices for Undergraduate Students of Architecture was conducted at IIT Kanpur during July 04 - 09, 2011. The workshop was attended by 58 students from 17 colleges representing 16 cities of 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 Dr. Keya Mitra of Bengal Engineering & Science



University, Shibpur; Dr. Mahua Mukherjee of IIT Roorkee, Roorkee; Dr. Vasudha Gokhale and Prof. Meera Shirolkar of Dr. B. N. College of Architecture for Women, Pune; Dr. Koustubh Dasgupta, Indian Institute of Technology Guwahati, Dr. Atanu Dutta of Jorhat Engineering College, Jorhat and Ar. Sushmita De, Senior Architect, SPACESCAPES Kolkata. The final designs were evaluated by a Jury Board consisting of Prof. Mahesh Tandon, CMD, Tandon Consultants & Pvt. Ltd. New Delhi; Dr. AK Mittal, Retired Structural Engineer from CPWD; Ar. Balbir Varma, Former President IIA and

Practicing Architect New Delhi; and Prof. Amit Bose, DDF Consultants, New Delhi. 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/Arch_Ws_2011_Report_2011.pdf

PG Literature Review Workshop

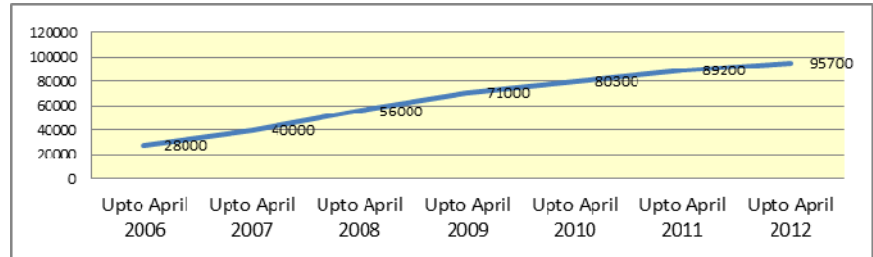
This Annual Workshop was conducted at IIT Kanpur during July 07 - 16, 2011. Eighty two Postgraduate students from 19 colleges across India participated in this. The participants were encouraged to make use of available literature at NICEE library and the Central Library of IIT Kanpur for doing quality research work. They were also provided access to internet for downloading the research materials.

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

For more information please visit: http://www.nicee.org/MTech_Workshop

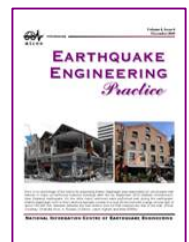
Aggressive Dissemination of Literature

During the year, 6,500 copies of books, monographs, CDs, and journal issues were distributed. Till date, NICEE has distributed 95,700 such items.



Earthquake Engineering Practice

The quarterly periodical *Earthquake Engineering Practice* continues to gain popularity. Its subscription list as of March 2012 stands at 3,168 from 66 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 ₹ 16.0 lakhs. To make it self-sustaining we invite advertisements/ sponsorships from the corporate sector.

Translations into Local Languages

The translation of Earthquake Tips and monograph by Ar. Tom Schacher into local languages is also in progress by enthusiastic supporters of NICEE, voluntarily.

Institutional Membership

You may like to enthuse your organisation to take up institutional membership of NICEE. For details: <http://www.nicee.org/AboutNICEE.php?id=18>

PLATINUM SUBSCRIBING MEMBERS

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

GOLD SUBSCRIBING MEMBERS

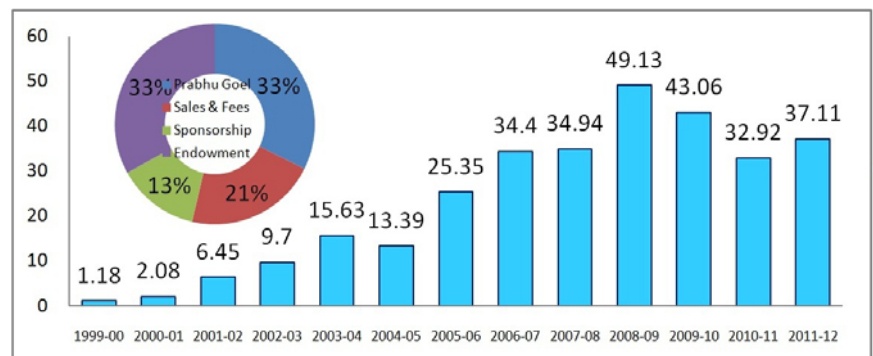
(₹ 1 lakh/year and up ~ US\$ 2,500 per year)

SILVER SUBSCRIBING MEMBERS

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

NICEE Financials

Funding of Expenses – 2011-12



With a healthy growth of NICEE activities, the overall expenditure during the year stood at about ₹ 37.11 lakhs (₹ 32.92 lakhs last year). This was covered by a healthy mix of resources from various sources: 21% from sales and fees, 13% from sponsorships, 33% from Endowment and 33% from the Poonam and Prabhu Goel Foundation at IIT Kanpur.

The sale proceeds from publications and monographs were ₹ 7.91 lakhs as compared to ₹ 8.3 lakhs last year. The number of donors this year were 94 (83 last year) contributing a total of ₹ 8.86 lakhs with an average donation of ₹ 9,423/- (₹ 3.8 lakh last year with average of ₹ 4,570/-). Since inception, NICEE has received one or more donations from a total of 486 donors with an overall median of ₹ 2,500: this is a great endorsement of NICEE's activities by its friends and well wishers.

₹ 4,00,000/- and above

Computers & Structures Inc (India), New Delhi, DL

₹ 20,000/- to ₹ 99,999/-

Kishan Lal Pawan Kumar Jain, Kanpur, UP

Tandon Consultants Pvt. Ltd., New Delhi, DL

Shirish Patel & Associates Consultants Pvt. Ltd., Mumbai, MH

Arun Kumar Jha, Patna, BR

₹ 4,000/- to ₹ 19,999/-Ascent Consulting Engineers,
Mumbai, MH

N. Y. Kochak, Pune, MH

Durgesh C. Rai, Kanpur, UP

Chandramouli, Bangalore, KA

Abhay Shriram Kulkarni,
Nagpur, MH

H.C. Salaria, Ludhiana, PB

Anil Agarwal, Kanpur, UP

Hari Kumar, New Delhi, DL

Chaitanya Sanghvi, Ahmedabad, GJ

John G. Anderson, NV, USA

B. B. Ladge, Kolhapur, MH

V.M. Shanthi, Coimbatore, TN

S. H. Babu, Secunderabad, AP

Atop Lego, Itanagar, AR

M.K. Shrimali, Jaipur, RJ

Svetlana N. Brzev, BC, Canada

Keya Mitra, Howrah, WB

Balkrishna B. Soneji,
Ahmedabad, GJ

Deepak B. Dave, Mumbai, MH

Mahua Mukherjee, Roorkee, UK

G. Srinivasan, Coimbatore, TN

Sudhir K. Jain, Ahmedabad, GJ

Bhabhananda Nath, Jamnagar, GJ

Atul S. Thakor, Vadodra, GJ

Sandeep Joshi, Indore, MP

V. V. Nori, Mumbai, MH

Jagdish Kumar Varma, Jaipur, RJ

Vikrant Joshi, TX, USA

Prasad Panandikar, Margao, GA

T. Viswanathan, New Delhi, DL

K. Subramanya Karanth,
Bangalore, KA

Anand Panpate, Abu Dhabi, UAE

Up to ₹ 3,999/-Swati Structure Solution (P) Ltd.,
New Delhi, DL

Rajul K. Gajjar, Ahmedabad, GJ

Tai Sangkio, Itanagar, AR

Achintya, Bhagalpur, BR

N. Gopalakrishnan, Chennai, TN

M. V. V. Satyanarayana,
Hyderabad, AP

Vijay Agrawal, Jaipur, RJ

Dipti Goswami, Itanagar, AR

Premanand Shenoy, Mangalore, KA

Bamang Amar, Itanagar, AR

Tarh Hachey, Itanagar, AR

Hare Ram Singh, Itanagar, AR

Olom Apang, Itanagar, AR

Likha Hina, Itanagar, AR

V.P. Singh, Itanagar, AR

Saikat Bagachi, Kolkata, WB

George Joseph, Itanagar, AR

Sonkoli Sonam, Itanagar, AR

K. Z. Bagra, Itanagar, AR

Ran Kana Kacha, Itanagar, AR

N. Subramanian, Chennai, TN

Mojum Bam, Itanagar, AR

Nabam Kai, Itanagar, AR

B. L. Swami, Jaipur, RJ

Tai Bapu, Itanagar, AR

Kipa Korah, Itanagar, AR

Taban Tabing, Itanagar, AR

Jumkar Basar, Itanagar, AR

Rakesh Kumar S., Bangalore, KA

Nabam Takek, Itanagar, AR

Altaf Batliwala, Mumbai, MH

R. D. Lewi, Itanagar, AR

Talen Taki, Itanagar, AR

Giluk Belo, Itanagar, AR

Gaurav Maroo, Noida, UP

Techi Tapum, Itanagar, AR

Atul Chandra Boruah,
Guwahati, AS

Tadak Mosu, Itanagar, AR

D. K. Thungon, Itanagar, AR

Taring Darang, Itanagar, AR

M. L. Narasimhulu, Kurnool, AP

Pema Khandu Thungon, Itanagar, AR

Debasis Dasgupta, Jalpaiguri, WB

Amresh S. Patil, Gulbarga, KA

Alok Tiwari, Indore, MP

Arnab Dutta, Bikaner, RJ

P.B. Ponung, Itanagar, AR

Haring Camder Tok, Itanagar, AR

Tadar Dokio, Itanagar, AR

Marcony Potom, Itanagar, AR

Mukesh Chandra Upadhyay,
New Delhi, DL

Himar Ete, Itanagar, AR

Riya Powak, Itanagar, AR

Sandeep Kumar Verma, Indore, MP

K. C. Francis, Kochi, KL

Akshay Kumar Sahoo,
Bhubaneswar, OR

Hate Welly, Itanagar, AR

For more information, please contact**Prof. Durgesh C. Rai***Coordinator, NICEE*

Department of Civil Engineering,

Indian Institute of Technology Kanpur

Kanpur 208016, India

Web: www.nicee.org E-mail: nicee@iitk.ac.in

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

NICEE Team

Cdr Suresh Ailawadi, Retd.

Ms. Anamika Dikshit

Ms. Seema Kushwaha

Mr. Pawan Srivastava

Mr. Moti Lal

Mr. Malikhan Singh