



National Information Centre
of Earthquake Engineering
Indian Institute of Technology Kanpur

Annual
April 2019 - March 2020
Report

Architecture Workshop

For more than a decade, the National Information Centre of Earthquake Engineering (NICEE) at IIT Kanpur has conducted annual workshops for undergraduate students of architecture. This outreach to the architects of tomorrow is an integral part of NICEE's mandate to empower all stakeholders in the building industry in seismic safety towards ensuring an earthquake resistant built environment in our country. About six hundred students from about more than 80 colleges all over India and Nepal participated in the 7 day intensive workshops.

The general objective of the workshop is to sensitize the students to earthquake safety issues and in capacity building in the basics of earthquake resistant design at a conceptual level. It is expected that lectures and hands-on studio sessions with a design assignment will help students in internalizing earthquake resistant practices as an integral part of their design decision making.

The participants work in groups of two students each from different colleges and preferably different cities. The designs prepared by them are presented to a jury team on the final day of the workshop. The four member jury team consists of two architects and two structural engineers.

The workshop has been a milestone in the NICEE's activities.



From the Coordinator

The importance of Seismic Safety needs no further amplification as human societies have been devastated repeatedly due to lack of preparedness to face earthquakes. Consequently, promoting an earthquake-resistant built environment has been the prime activity of NICEE. Enhancing awareness and education through workshops and publications has been continued this year also. Our most sought after publication *IITK-BMTPC Earthquake Tips* is now available with 32 Tips. Efforts are on to translate the newly added eight tips into local languages. The Inter-School Quiz based on this widely acclaimed publication has been continuing for over a decade now. We are happy to note the increasing awareness about seismic safety at the grass-root level. Workshop for Architecture students has been well appreciated at all levels. We note with satisfaction that attendance at the Literature Workshop is continually on the decline due to increased availability of the internet and easy access to research publications including those available through NICEE such as World Conference proceedings. NICEE continued to receive good support from its well-wishers during the year. Your support is important to us and we look forward to your continuous support and guidance in the forthcoming years. Support from 58 members during the year and 554 unique members till date is a great endorsement of our activities. We welcome your suggestions about new activities to be included in NICEE's agenda and your feedback at nicee@iitk.ac.in.

Institutional Members

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

PLATINUM SUBSCRIBING MEMBERS

CSI Engineering Software Pvt. Ltd., New Delhi

GOLD SUBSCRIBING MEMBERS

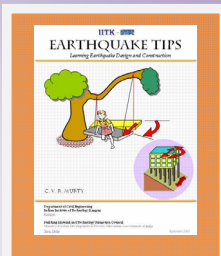
PNC Infratech Limited, Agra
Indian Institute of Technology Gandhinagar

SILVER SUBSCRIBING MEMBERS

Balbir Verma & Associates, New Delhi
Tandon Consultants Pvt Ltd, New Delhi

Publications during 2019- 20

During the year the English Version of IITK-BMTPC Earthquake Tips with 32 Tips was printed. This is the most sought after publication and is also the basis of Inter School Quiz.



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 26 January 2020 at Outreach Auditorium, Indian Institute of Technology Kanpur, Kanpur.

48 schools from 30 cities participated in the preliminary rounds which were held Ahmedabad, Chandigarh, Ghaziabad, Gwalior, Indore, Kanpur, Nagpur and Vijaywada. In the final round of the quiz 07 schools - DAV, Ludhiana; Centre Point School, Nagpur; DPS Gandhidham; Nehru World School, Ghaziabad; Emerald Heights International School, Indore; Smt. Sulochanadevi Singhania School, Thane and Sheiling House School, Kanpur participated.



Centre Point School, Nagpur



Sheiling House School, Kanpur

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 team from Sheiling House School, Kanpur, represented by Kudrat Kaur, Akshat Shukla, Ujjawal Agarwal and Anshika Dixit shared first position with team from Centre Point School, Wardhaman Nagar, Nagpur represented by Hiteshree Nagarnaik, Vishvesh Khodankar, Raman Gupta and Kartikey Sawarbandhe scoring 86 points. DAV Public School, BRS Nagar, Ludhiana and Nehru World School, Ghaziabad came second and third, respectively, scoring 68 points and 65 points. The quiz was supported by BMTPC, New Delhi, Computers & Structures Inc. (CSI). The quiz at Gandhinagar was conducted by the team of Mr. Abhishek Gupta, Mr. Hrishikesh, Ms. Bhumika & Ms. Himanshi under the guidance of Prof. Manish Kumar and Prof. Amit Prashant. The quiz at Chandigarh was conducted by Er. Karnail Singh with support from Er. RK Dalal and Er. Sawinder

Singh of Institution of Engineers State Centre Punjab and Chandigarh. The quiz at Nagpur was conducted by Mr. Harshad Phadke under the guidance of Prof. OR Jaiswal of VNIT Nagpur. The quiz at Thane was conducted by team of Er. Narayan Kochak whilst the quiz at Gwalior was conducted by the team of Prof. Sarvesh K. Jain of MITS Gwalior. NICEE would like to extend their gratitude to Nehru World School Ghaziabad for their help in conducting the preliminary rounds of the quiz in their premises. 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 forthcoming years. For further details and procedure for participating in the quiz please visit <http://www.nicee.org/Quiz/>

Workshop for Architecture Students

The twelfth workshop on Earthquake Resistant Practices for Undergraduate Students of Architecture was conducted at IIT Kanpur during July 01 - 07, 2019. The workshop was attended by 60 students from 14 colleges representing 12 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:



Prof. Keya Mitra, IEST Shibpur, Howrah; Prof. Vasudha Gokhale and Meera Shirolkar, Dr. B.N. College of Architecture for Women, Pune; Prof. Ruchira Das, Amity University, Kolkata and Prof. Atanu Dutta, Jorhat Engineering College, Jorhat. Additionally, Ar. Vikram Hundekar, Practicing Architect from Pune illustrated the use of Confined Masonry in IIT Gandhinagar Hostel Design. He spent a full day with the workshop participants in addition to giving a lecture on the subject. The final designs were evaluated by a Jury board consisting of Ar. Rohit Jain, Practicing Architect, New Delhi; Ar. Amit Bose, Practicing Architect, New Delhi; Er. Karnail Singh, Retd., Chandigarh and Prof. Durgesh C. Rai,

Kanpur. The design of Annanya Jha, National Institute of Technology, Raipur and Sayad Kashaf Fatima, Dr. D.Y. Patil College of Architecture, Navi Mumbai was adjudged as the best by the jury. The workshop was sponsored by Computers & Structures Inc. (CSI) and several supporters of NICEE. For more information, visit:

http://www.nicee.org/Architecture_Workshop/Arch_Ws_2019_Report_2019.pdf

PG Literature Review Workshop

This Annual Workshop was conducted at IIT Kanpur during June 27 - July 06, 2019. Three Postgraduate students from 03 colleges across India participated in this. The participants were encouraged to make use of available literature at NICEE library and the Kelkar Library of IIT Kanpur for doing quality research work. They were also provided access to internet for downloading the published research literature. The participants had interaction with Prof. Chinmoy Kolay, Dr. KK Bajpai and Dr. Rajeev Gupta of IIT Kanpur.

The sponsors of the workshop were CSI Engineering Software Pvt. Ltd., New Delhi and the numerous other donors of NICEE.

For more information please visit:

http://www.nicee.org/MTech_Workshop

Institutional Membership

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

PLATINUM SUBSCRIBING MEMBERS

₹ 4 lakh (US\$ 10,000) per year or more

GOLD SUBSCRIBING MEMBERS

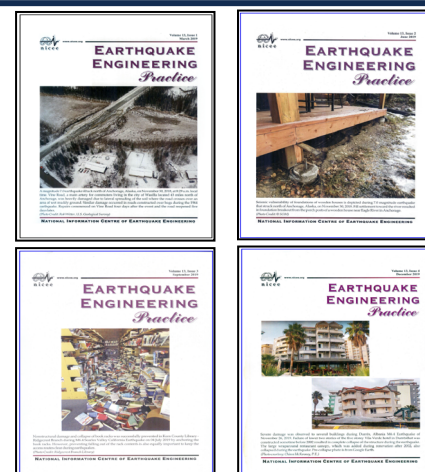
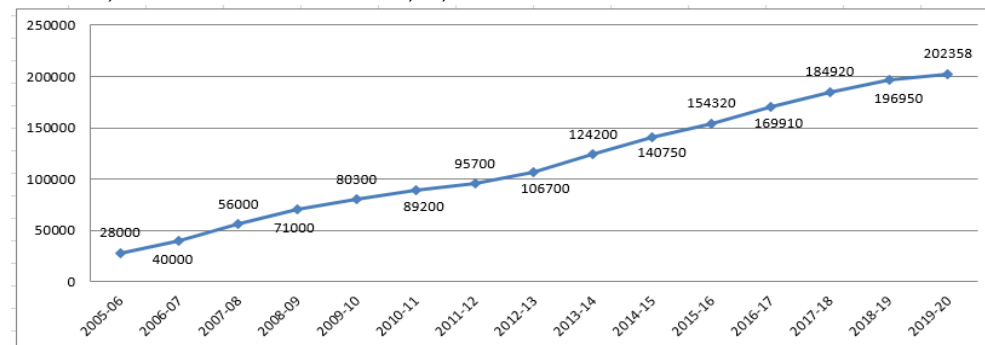
₹ 1 lakh (US\$ 2,500) per year or more

SILVER SUBSCRIBING MEMBERS

₹ 25,000 (US\$ 550) per year or more

Aggressive Dissemination of Literature

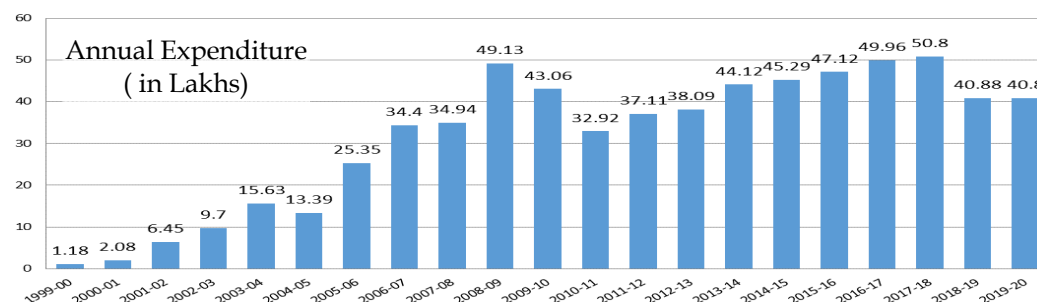
During the year 5,408 copies of books, monographs, and CDs, were distributed. Till date, NICEE has distributed 2,02,358 such items.



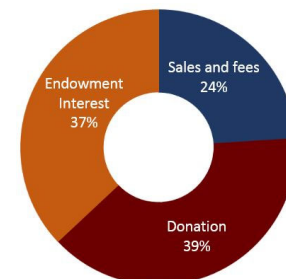
Earthquake Engineering Practice

The quarterly periodical *Earthquake Engineering Practice* continues to gain popularity. Its subscription list as of March 2019 stands at 775 from 85 countries. The periodical is being financially supported by the CSI Engineering Software Pvt. Ltd., New Delhi and the numerous other donors of NICEE. The annual expenditure on the periodical is to the tune of ₹ 08.00 lakhs. To make it self-sustaining we invite advertisements/ sponsorships from the corporate sector.

NICEE Financials



Funding of Expenses - 2019-20



With a healthy growth of NICEE activities, the overall expenditure during the year stood at about ₹ 40.80 lakhs (₹ 40.88 lakhs last year). This was covered by a mix of resources from various sources: 24% from sales and fees; 39% from donation and 37% from interest from endowment.

The sale proceeds from publications and monographs were ₹ 09.62 lakhs as compared to ₹ 11.05 lakhs last year. The number of donors this year were 58 (47 last year) contributing a total of ₹ 15.72 lakhs with an average donation of ₹ 27,108/- (₹ 15.45 lakh last year with average of ₹ 32,866/-). Since inception, NICEE has received one or more donations from a total of 554 donors with an overall median of ₹ 3,100: this is a great endorsement of NICEE's activities by its friends and well wishers.

₹ 4,00,000/- and above

CSI-Engineering Software Pvt. Ltd. , New Delhi

₹ 1,00,000/- to ₹ 3,99,999/-

IIT Gandhinagar, Gandhinagar, GJ

PNC Infratech Limited, Agra, UP

₹ 20,000/- to ₹ 99,999/-

Balbir Verma, New Delhi

₹ 4,000/- to ₹ 19,999/-

Ascent Consulting Engineers, Mumbai, MH
 DELF Consulting Engineers (I) Pvt. Ltd., Ahmedabad, GJ
 N. Y. Kochak Consulting Engineers & Structural Designers, Pune, MH
 Sharma & Associates, Raipur, CG
 M/s Structcon Designs Pvt Ltd, Mumbai, MH
 Achintya, Sitamarhi, BR
 Vivek Abhyankar, Mumbai, MH
 Deepak B. Dave, Mumbai, MH
 Atanu Kumar Dutta, Jorhat, AS
 Sarvesh Kumar Jain, Gwalior, MP
 Sudhir Kumar Jain, Gandhinagar, GJ
 TS Kaith, New Delhi

Abhay Khandeshe, Ahmednagar, MH
 Harikumar, New Delhi
 S Harikumar, New Delhi
 BB Ladge, Kolhapur, MH
 Atop Lego, Itanagar, AR
 C. S. Manohar, Bangalore, KA
 Keya Mitra, Howrah, WB
 Partha Pratim Nandy, Bangalore, KA
 Bhabananda Nath, Jamnagar, GJ
 A.S. Nikam, Pune, MH
 Durgesh Rai, Kanpur, UP
 Hari Chand Salaria, Ludhiana, PB
 Chaitanya S Sanghvi, Ahmedabad, GJ
 T. Viswanathan, New Delhi

Up to ₹ 3,999/-

M/S Omtatsat Infra, Ahmedabad, GJ
 Amit Auti, Nagpur, MH
 Sudipta Chattopadhyaya, Anupuram, TN
 Ravindra Desai, Pune, MH
 Anjan Kumar Dutta, Kolkata, WB
 Sunil Gandhi, Rajkot, GJ
 O. R. Jaiswal, Nagpur, MH

P Joginaidu, Visakhapatnam, AP
 G. Sree Lakshmi, Hyderabad, AP
 Gaurav Maroo, Noida, UP
 M. L. Narasimhulu, Kurnool, AP
 Hemant Y.Oke, Pune, MH
 Amaresh S Patil, Kalaburagi, KA
 Bhushan Raisinghani, Ahmedabad, GJ
 N. Subramanian, Chennai, TN

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NICEE Team

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