



National Information Centre
of Earthquake Engineering
Indian Institute of Technology Kanpur

Annual
April 2022 - March 2023
Report

From the Coordinator

The focus on seismic safety remains a top priority for NICEE. We have initiated a new effort to commemorate past earthquakes and their impacts to emphasize the importance of earthquake-resistant structures in mitigating seismic risk. This year, on the 25th anniversary of the Jabalpur earthquake, we made the Reconnaissance Report prepared by IIT Roorkee available online in collaboration with various stakeholders. Additionally, to raise awareness about seismic hazards, we have been publishing compiled reports of other significant earthquakes affecting India and neighbouring regions, such as the 2022 Doti Earthquake. During the Architecture workshop, we had special lectures by Prof. CVR Murty from IIT Madras, Dr. Shailesh Agrwal from BMTPC, New Delhi, and Ar. Vikram Hundekar from Mitimitra, Pune. The 2809 articles presented at the 17WCEE in Sendai, Japan have been added to the existing database of WCEE proceedings hosted at NICEE. Furthermore, we have updated the website with improved security features. NICEE has continued to receive strong support from its well-wishers. Your support is crucial to us, and we anticipate your ongoing support and guidance in the years to come. We welcome your suggestions for 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.

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Workshop for Architecture Students

The 14th National Workshop for UG students of Architecture was held at IIT Kanpur during June 18 - 25, 2022, in which 70 students from Bhutan and 21 institutes representing 12 cities from all over India participated in the 8-day workshop. The participating students had completed six semesters of studies in their respective architecture programs. The general objective of the workshop was to sensitize the students to earthquake safety issues and capacity building in the basics of earthquake-resistant design at a conceptual level. The resource persons included:



Prof. Meera Shirolkar, Sujata Mehta and Vasudha Gokhale - Dr. B.N. College of Architecture for Women, Pune; Prof. Ruchira Das, Department of Architecture, West Bengal; Prof. Bhavna Vimawala and Nehal Desai - Sarvajani University Surat; Prof. Nayanmoni Chetia and Prof. Baharul Hussain - Jorhat Engineering College, Assam. The design brief was an architectural design assignment where they were required to design an Office Complex on a site in Gandhidham, a city located in Kutch district, Gujarat. Gandhi Dham is a municipality and the economic capital of Kutch, and it is a fast-developing city in Gujarat state, on a one-hectare plot. In

addition, special lectures for the benefit of participants were delivered by Ar. Vikram Hundekar, Prof. Svetlana Brzev, Dr. Shailesh Agrwal and Mr. Rajat Avasthi.

The Jury Board consisted of the following members:

Prof. Keya Mitra, IEST Shibpur, Howrah; Dr Sheeba Valsson, SDMCA Nagpur; Prof. Rajiv Kacker, College of Architecture, Lucknow; Ar. Vikram Hundekar, Director, Mitimitra Consultants, Pune; Ar. Rebecca Jadon, Dean, School of Architecture & Design, ITM University, Gwalior; Prof. OR Jaiswal, VNIT Nagpur; Prof. Rupen Goswami, IIT Madras, Chennai; Er. Karnail Singh, FIE, Certified Professional Engineer(I), Chandigarh; Er. Narayan Kochak, N. Y. Kochak Consulting Engineers & Structural Designers, Pune.

The jury members appreciated the designs of the following participants:

Ojasvi Khandhia, Dr. D Y Patil College of Architecture, Pune; Chetana Srinath, School of Architecture, Bangalore; Kritika Gadiya, Manohar Phalke College of Architecture, Mumbai; Shivani Suman Agrawal, National Institute of Technology, Raipur; Anjali Vardani, VNIT, Nagpur; Avdhesh Kumar, Mizoram University, Mizoram; Sahil Singh, Dr. D Y Patil College of Architecture, Pune; Gurneet Singh, Manohar Phalke College of Architecture, Mumbai; Deepika Ghally, College of Science and Technology, Bhutan; Nikita Ganesh Mohol, Dr.BNC College of Architecture for Women, Pune; Sanath Sujay Shivam, BGS School of Architecture and Planning, Bangalore; Janhavi Gosewade, SMM College Of Architecture, Nagpur; Manasi Deshmukh, SMM College Of Architecture, Nagpur; Pavan Kumar, M.S School of Architecture, Bangalore; Taha Boxwala, Allana College of Architecture, Pune; Neha Gupta, National Institute of Technology, Raipur; Sagar Rajopadhye, VNIT, Nagpur; Shreesha, H R B G S School of Architecture and Planning, Bangalore; Sal S S, VNIT, Nagpur; Alisha Khan, Aligarh Muslim University, Aligarh.

The workshop was sponsored by CSIESPL, New Delhi, and several supporters of NICEE. For more information, visit:

https://www.nicee.org/Architecture_Workshop/Arch_Ws_2022_Report.pdf



Inter School Quiz on Earthquake Tips

NICEE held an online quiz competition on IITK- BMTPC Earthquake Tips, with over 284 students from six states participating. The final round took place on January 26, 2023, at the Indian Institute of Technology Kanpur. The quiz consisted of twenty multiple-type questions with a 10-minute time limit. On January 26, the webinar featured Prof. Keya Mitra discussing earthquake hazards and preventive measures.



The following top 10 performers were awarded a cash prize and a set of NICEE publications:

Ms. Naavinya Dhawale and Mr. Vatsal Agrawal, Centre Point School, Nagpur; Ms. Bhavya Sanghvi, Mr. Neer Turakhia and Ms. Reet Rijhwani, The Emerald Heights International School, Indore; Ms. Siona Singh, Ms. Aahana Luthra and Mr. Garv Gupta, Nehru World School, Ghaziabad; Ms. Pranit Sachdeva, Bhavan Vidyalaya, Chandigarh, Mr. Praharsh Mishra, Bharatiya Vidya Bhavan's Prism School, Satna.

The school quiz an important annual event of NICEE, with plans to expand to neighboring cities.

For more details and participation procedures, visit <http://www.nicee.org/Quiz/>.



Remembering Past Earthquakes

THE 1997 JABALPUR EARTHQUAKE ON ITS 25TH ANNIVERSARY

25 years ago, a moderate earthquake struck Jabalpur city and neighborhood, causing widespread damage. The event highlighted the seismic vulnerability of modern urban centers due to inadequate structural safety measures. Publicly funded buildings, such as those at Jawahar Lal Nehru Agriculture University and the Ordnance Factory, were damaged beyond repair and had to be demolished. This event highlighted the need for improved structural safety in urban centers. For further details please visit <https://nicee.org/jabeq/jeq/jeq.htm>.

INFORMATION ON 2022 DOTI EARTHQUAKE: NEPAL

Nepal experienced another earthquake on November 9, 2022, causing six villagers, including four children, to die due to the collapse of stone and mud houses in rural areas. The epicenter was in the Khaptad National Park of Doti district, 20 km east of district headquarters and 430 km west of Kathmandu. The earthquake also caused strong tremors in neighboring Indian cities, but no damage was reported. For further details please visit https://nicee.org/Nepal_EQ_2022.php.

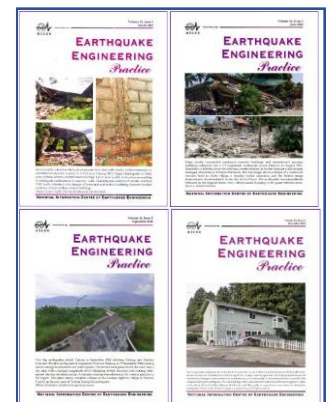
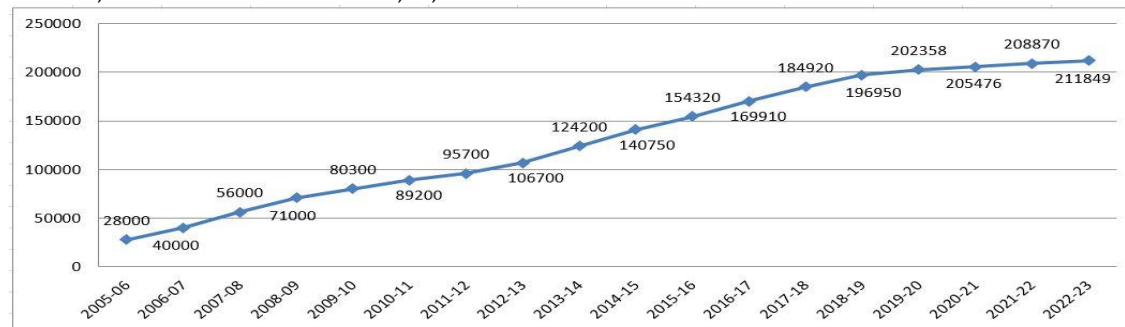
Members in News

PROF. SUDHIR K JAIN HAS BEEN NAMED TO RECEIVE THE 2022 DISTINGUISHED ALUMNI AWARD

Prof. Sudhir K Jain, Former Coordinator, NICEE and Vice Chancellor, BHU has been named to receive the 2022 Distinguished Alumni Award by California Instt. Of Technology, USA. For further details please visit <https://www.alumni.caltech.edu/awardees/sudhir-jain>

Dissemination of Literature

During the year 2979 copies of books, monographs, and CDs, were distributed. To date, NICEE has distributed 2,11,849 such items.



Earthquake Engineering Practice

The quarterly periodical *Earthquake Engineering Practice* continues to gain popularity. Its subscription list as of March 2023 stands at 671 from 85 countries. The periodical is being financially supported by 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 ₹ 2.45 lakhs. To make it self-sustaining, we invite advertisements/ sponsorships from the corporate sector.

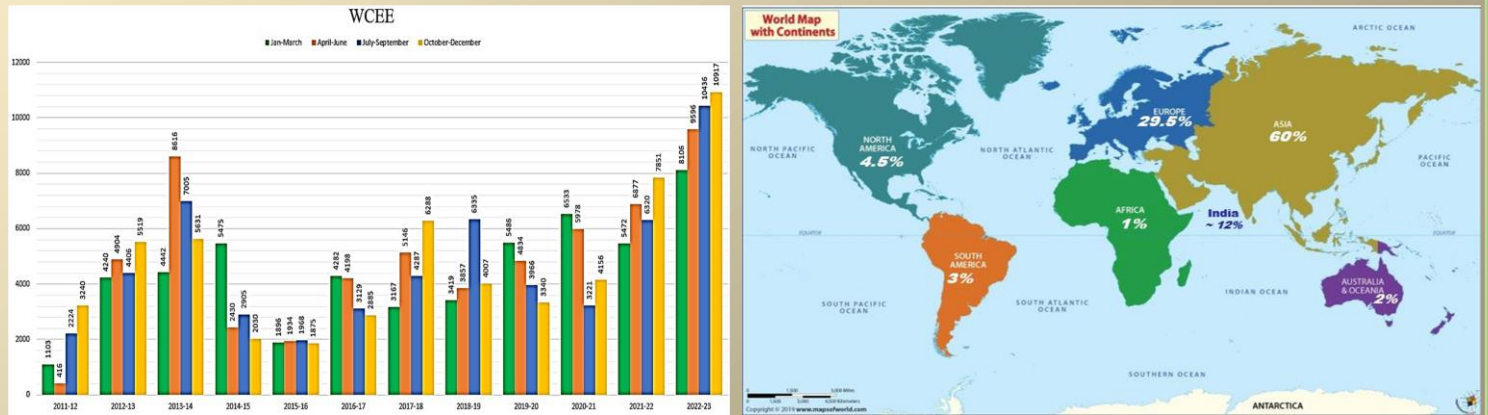
WCEE Proceedings



hosted at
www.nicee.org/wcee

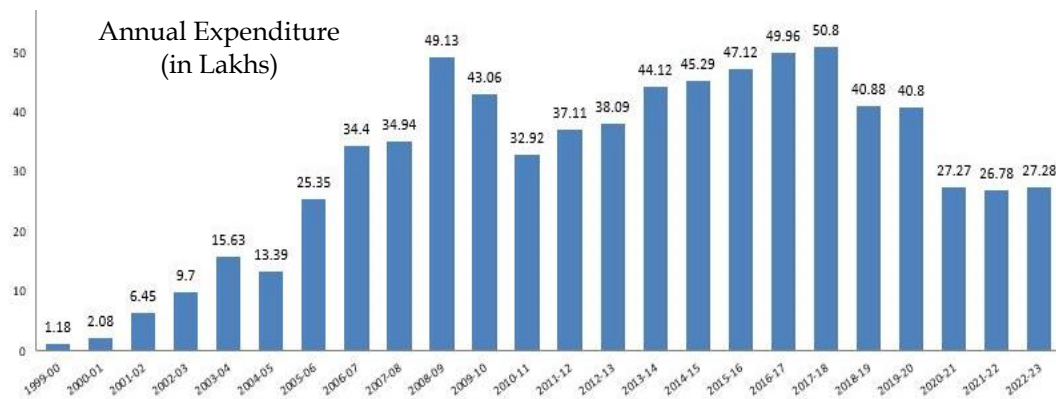
The World Conference on Earthquake Engineering (WCEE) is a major gathering of stakeholders promoting seismic safety worldwide. The first WCEE was held in 1936 in California, and the 17th was held in Sendai, Japan, in hybrid mode due to the Covid pandemic. To make the papers available for free, NICEE initiated a project in 2010, uploading 5,360 papers from the first ten conferences in December 2010. As of now, there are over 19,130 articles uploaded with 160,000 pages (20 GB of data).

The graph below explains the worldwide access to WCEE papers with an average quarterly hit at present approx. 9764 with significant access in Asia and Europe which covers around - 89.5%; North America - 4.5%; South America - 3%; Australia - 2% and Africa - 1%.

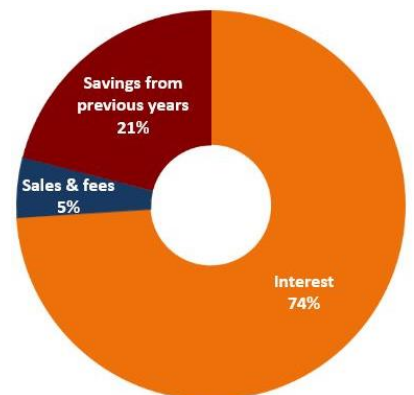


The user interface of the home page has been updated with new security features, ensuring a safer website against cyber-attacks. The 17th WCEE proceedings, containing 2809 articles uploaded in ~33708 pages with 13 GB of data, can be accessed at <https://www.nicee.org/wcee/index.php>. The 18th World Conference on Earthquake Engineering (WCEE2024), will held from June 30 - July 05, 2024, in Milan, Italy. Invitation and details are available at <https://www.wcee2024.it/>.

NICEE Financials



Funding of Expenses - 2022-23



With a healthy growth of NICEE activities, the overall expenditure during the year stood at about ₹ 27.28 lakhs (₹ 26.78 lakhs last year). This was covered by a mix of resources from various sources: 5% from sales and fees, 21% from previous years' savings and 74% from interest from endowment. The sale proceeds from publications and monographs were ₹ 1.20 lakhs as compared to ₹ 1.52 lakhs last year. The number of donors this year is 36 (59 last year), contributing a total of ₹ 14.76 lakhs with an average donation of ₹ 31,224/- (₹ 14.57 lakh last year with an average of ₹ 24,700/-). Since its inception, NICEE has received one or more donations from a total of 578 donors with an overall median of ₹ 3,837; this is an excellent endorsement of NICEE's activities by its friends and well-wishers.

₹ 4,00,000/- and above

CSI-Engineering Software Pvt. Ltd., New Delhi
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₹ 20,000/- to ₹ 99,999/-

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