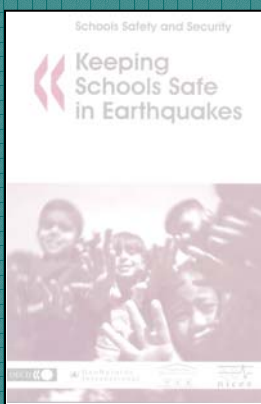
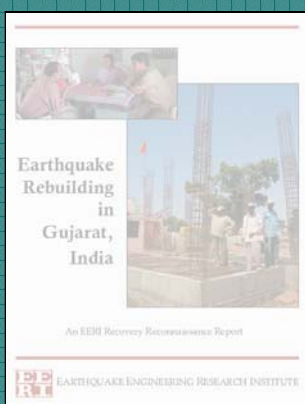
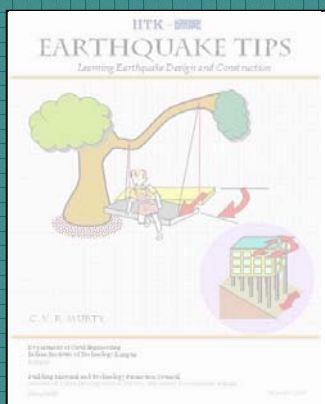




www.nicee.org

# National Information Centre of Earthquake Engineering Indian Institute of Technology Kanpur



## Annual Report

April 2005 – March 2006

### Preface

With the support of well wishers and donors, 2005-2006 was a very productive and eventful year for the National Information Centre of Earthquake Engineering. During the year the Centre made significant contributions to capacity building in seismic safety through different outreach activities targeted at a nationwide audience of academics, professionals and students. NICEE continues to identify and acquire useful resources for wide dissemination to all those interested in earthquake safety. A completely revamped NICEE website has made the site management and downloads more efficient. At the end of another year of operations, NICEE reiterates its commitment to empowering professionals and public interested in seismic safety issues through information sharing. This Annual Report 2005-2006 is meant to share the efforts being undertaken by the National Information Centre of Earthquake Engineering with its donors and well-wishers.

### Academic Outreach through Workshops

NICEE continued its academic outreach activities through two Literature Review Workshops for postgraduate students and faculty members of engineering colleges from all over the country during 2005. The workshops provided opportunities for the participants to access the rich information resources of NICEE. In addition they visited laboratories and saw demonstration of experiments and had interactions with faculty members from IIT Kanpur. Participants were also shown videos demonstrating seismic concepts and scenarios from past earthquakes. The Workshop also included an Earthquake Engineering Quiz. Both the workshops were sponsored by the National Programme on Earthquake Engineering Education (NPEEE)

#### For PG Students

The workshop, held during August 29 to September 3, 2005, was attended by 74 students selected from 106 applicants. In this NPEEE sponsored programme, a little over Rs. 2 Lakhs (~US\$ 4500) was spent at an average cost of around Rs. 2,700 (~US\$ 60) per student; it covered travel, boarding and lodging of the participants. More than 1 lakh pages of information was photocopied by the participants.

#### Best Thesis Award

**Shravan U Shinde** was awarded the Best Thesis Award for 2002 Literature Review Workshop along with a cash prize of Rs. 5,000 (~US\$ 110) for his thesis entitled "A Simple Type of TMD for Controlling Seismic Response of Building". His thesis supervisor, **Prof. O. R. Jaiswal** of VNIT Nagpur received a grant of Rs. 10,000 (~US\$ 220) towards professional development expenses.

#### For Engineering Faculty

30 teachers participated in the Literature Review Workshop held in IIT Kanpur during August 1-5, 2005. The programme was sponsored by NPEEE at a cost of around Rs. 2.4 lakhs (~US\$ 5300) at an average cost of Rs. 8,000 (~US\$ 180) per teacher; the participants were provided travel, boarding and lodging. Over 30,000 pages were photocopied during this workshop.

#### Reaching out to Architects

To strengthen and steer the agenda of seismic safety NICEE distributed about 10,000 copies of Earthquake Tips to architects nationwide who are members of the Indian Institute of Architects. Ar. Balbir Verma, the then President of IIA co-signed a letter emphasizing the role of architects in construction of safe buildings.



## Acquisitions by NICEE

With the objective to maximize availability of the best available resources on various aspects of Earthquake Engineering to its users, NICEE purchased 35 new publications sourced from all over the world for its library at a total cost of around Rs. 1.75 lakhs (~US\$ 3900). The books purchased varied in price from a few hundred rupees to more than Rs. 20,000(~US\$ 440) and covered a wide range of topics including among others, Codal Provisions for Earthquake Resistant Structures and Infrastructures, Seismic Design Guidelines, and Geotechnical and Instrumentation Aspects. A detailed list of books acquired

## And...Dissemination

### Of Resources

Since its inception in 2001, NICEE continues to focus on dissemination of information resources. Request for specific articles and publications are being met in a timely manner.

Visitors to the National Information Centre of Earthquake Engineering are making good use of NICEE's resources.

## And...Special Publications

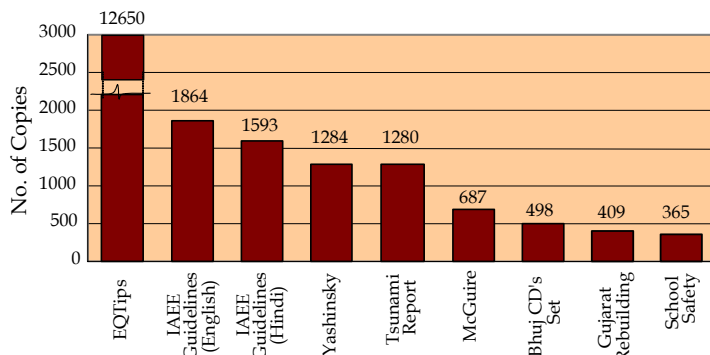
During the year, NICEE added several new publications to its list:

- Seismic Hazard and Risk Analysis, by Robin K. McGuire
- EERI Special Report "The Great Sumatra Earthquake and Indian Ocean Tsunami of December 26, 2004: The Effect in Mainland India and in the Andaman-Nicobar Island" (In colour)
- Earthquake Rebuilding in Gujarat, India; An EERI Recovery Reconnaissance Report.
- Keeping School Safe in Earthquakes.

These publications were made possible thanks to the faith reposed in NICEE by EERI, USA and OECD, Paris for permission to distribute their respective publications, and to the National Programme on Earthquake Engineering Education and GeoHazards International (GHI) for sponsoring the same.

NICEE's special publications continue to be in good demand. During 2005-2006 Earthquake Tips (12,680 copies) heads the list of publications distributed followed by IAEE Guidelines (1864 copies of English and 1593 copies of Hindi distributed).

Distribution of Special Publications (2005-2006)

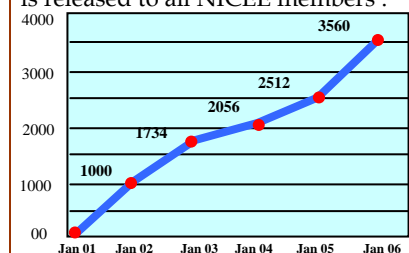


## NICEE on the Web

During the last year the NICEE website has been totally revamped and upgraded for improved site management, efficient registration and download by users. The new website is a database oriented site which includes among others, manuals, monographs, commentaries on seismic codes and a photo gallery of past Indian earthquakes. The new website has been developed using Apache, MySQL, and PHP public domain web application softwares. It also has online feed back options for greater interactivity with users. Running on both LINUX and Windows platforms, the new NICEE website is convenient to access and use.

## Expanding Mailing List

NICEE is strongly networked with the community of professionals, academics, students and individuals interested in different aspects of earthquake safety. As of March 31 2006, NICEE had around 3,666 members. More than 1000 registrations were added in the past year—the highest in a year since its inception in 2001. A monthly electronic newsletter is released to all NICEE members .





## Users Endorse NICEE through Generous Donations

Fall in interest rates over the years has been adversely affecting the interest earnings from NICEE's Endowment Corpus. At the same time NICEE's ever expanding activities require resources. Consequently, the National Advisory Committee in its November 2004 meeting recommended that NICEE start to accept small donations from its users. Subsequent to this, appeals for donation were made to the NICEE user community in March 2005 and again in September 2005. The response was overwhelming and up to March 31, 2006 NICEE received Rs.9.38 lakhs (~US\$ 21,000) from 179 donors. The average donation is Rs. 5200 (~US\$ 115) while the median is Rs. 1000 (~US\$ 22). The list of donors to NICEE is included elsewhere in this report and is available at the website.

## Resources from Publications

In the past, NICEE provided its publications free of cost. As per the recommendation of the National Advisory Committee, from January 2005, NICEE decided to nominally price its publications (Rs. 50 to Rs. 200; ~US\$ 1 to ~US\$ 4), and started charging for its publications on a voluntary basis, that is, the users have an option to pay. About Rs. 3.6 lakh (~US\$ 8000) were raised during January 2005 to March 2006 through sale of publications. NICEE thanks its numerous users for this.

## Status of Funds

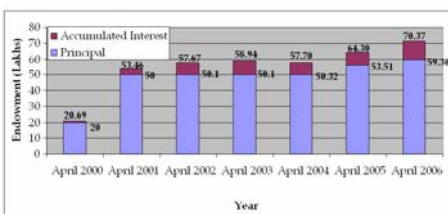
NICEE receives no budget from any sources and operates entirely on the interest income of its endowment, sponsorships, publication sales, and the donations. It strives to minimize costs on salaries and infrastructure, and to maximize activities with its limited resources.

During 1999 to 2001, an endowment of Rs 50 lakhs (~US\$ 110,000) was created by HUDCO, Telecom Commission, Railway Board, and the Ministry of Agriculture. Subsequently, Board of Research in Nuclear Sciences (BRNS) gave support for acquisitions of books for three years, and several organizations have been sponsoring many of our activities. Beginning 2005, the general body of users of NICEE has also been making donations to the corpus, and has been paying for the publications on a voluntary basis.

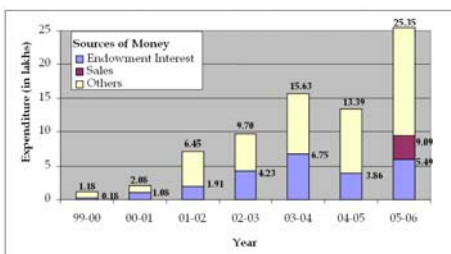
Over the years, NICEE activities have grown substantially. Starting with a little over Rs 1 lakh (~US\$ 2,200) during 1999-2000, the expenditure grew to Rs 6.4 lakhs (~US\$ 14,200) in 2001-02, Rs 15.6 lakh (~US\$ 35,000) in 2003-04, and about Rs 25 lakhs (~US\$ 55,500) during 2005-06. Of the Rs. 25 lakhs, only Rs 5.5 lakh (~US\$ 12,200) was contributed by the interest income of the endowment; that is, for every Rupee of interest income utilized, NICEE was able to execute activities for four-and-a-half Rupees.

As on April 1, 2006 the endowment of NICEE stood at Rs 70.4 lakhs (~US\$ 156,000) consisting of Rs 59.3 lakhs (~US\$ 132,000) of corpus and Rs 11.1 lakhs (~US\$ 24,000) of unutilized interest of earlier years. During the year, interest earned was Rs 5.7 lakhs (~US\$ 12,700) while interest utilized was Rs 5.5 lakhs (~US\$ 12,200). Thus, NICEE endowment was barely able to cope with the expenditure. To keep pace with falling interest rates and increased activities, NICEE continues to look forward to generous contributions by its friends and users

## Endowment Corpus



## Expenditure



## Online Donations to NICEE

NICEE has also made online transactions possible. NICEE publications can now be paid online through credit card at [http://www.nicee.org/NICEE\\_pubs.php](http://www.nicee.org/NICEE_pubs.php)

Users and well-wishers of NICEE can now also donate online through credit card using the following links:

Donors from USA: <http://www.indolink.com/iitk/nicee/>

Donors from any country other than USA:

[http://www.nicee.org/NICEE\\_donation.php](http://www.nicee.org/NICEE_donation.php)



**Rs. 1,00,000/- (~US\$ 2,200) and above**

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**Rs. 4,000/- to Rs. 19,999/- (~US\$ 90 to ~US\$ 440)**

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**Upto Rs. 3,999/- (~US\$ 90)**

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- Telecom Commission, New Delhi
- Railway Board, New Delhi
- Ministry of Agriculture, New Delhi
- Board of Research in Nuclear Sciences, Mumbai

### We Acknowledge Sponsorships of NICEE Activities by:

- National Programme on Earthquake Engineering Education, Ministry of Human Resource Development, New Delhi
- Joan and Haresh Shah, Palo Alto, USA
- Atomic Energy Regulatory Board, Mumbai
- GeoHazards Inc., Palo Alto, USA
- Indian Institute of Technology Kanpur

### A Grand Beginning for 2006-07...

- ▲ Mr. Ashraf Habibullah, President and CEO, CSI Berkeley and his colleagues visited NICEE in April 2006. On the occasion CSI-India made a substantial donation.
- ▲ NICEE set up a booth at 8<sup>th</sup> US National Conference on Earthquake Engineering, San Francisco in April 2006 to showcase its activities.
- ▲ A series of distance learning products were launched by NICEE in April 2006.

## Publications

Title	Price (Rs)
• IITK-BMTPC Earthquake Tips (In colour)	150
• Guidelines for Earthquake Resistant Non-Engineered Construction - <b>English</b> Published originally in 1986 by International Association for Earthquake Engineering	100
• Guidelines for Earthquake Resistant Non-Engineered Construction - <b>Hindi</b> Hindi Translation by NICEE, IIT Kanpur	100
• Fundamentals of Seismic Protection for Bridges, by M Yashinsky and M J Karshenas, Published originally by EERI, USA	200
• Seismic Hazard and Risk Analysis, by Robin K. McGuire, Published originally by EERI, USA	200
• EERI Special Report "The Great Sumatra Earthquake and Indian Ocean Tsunami of December 26, 2004: The Effects in Mainland India and in the Andaman-Nicobar Islands" (In colour)	50
• Annotated Images from the Bhuj, India Earthquake of January 26, 2001 (CD), Published originally by EERI, USA	50
• Bhuj, India Republic Day January 26, 2001 Earthquake Reconnaissance Report (CD), contains the 400 page volume published by EERI, USA	50
• Earthquake Rebuilding in Gujarat, India; An EERI Recovery Reconnaissance Report, Published originally by EERI, USA	150
• Keeping Schools Safe in Earthquakes. Published originally by Organisation for Economic Co-operation and Development (OECD), Paris, France	200

## Distance Education Products

• Audio-video lecture on a CD by <i>Prof. Sudhir K. Jain</i> , IITK in February, 2003 on <b>Concept of Earthquake Resistant Design</b> , 37 minutes.	500
• Audio-video lecture on a CD by <i>Dr. Svetlana Brzev</i> , British Columbia Institute of Technology Vancouver, Canada in December, 2005 on <b>Seismic Retrofit Techniques for Masonry Buildings: an Overview</b> . 62 minutes.	500
• Audio-video lecture on a CD by <i>Dr. Svetlana Brzev</i> , British Columbia Institute of Technology Vancouver, Canada in December, 2005 on <b>Buildings on Rollers: Use of Passive Seismic Control Devices for Seismic Protection of Structures</b> . 105 minutes.	500
• Audio-video lecture on a CD by <i>Dr. Svetlana Brzev</i> , British Columbia Institute of Technology Vancouver, Canada in December, 2005 on <b>Seismic Design and Retrofit of Nonstructural Building Components</b> . 63 minutes.	500
• Audio-video lecture on a CD by <i>Dr. Svetlana Brzev</i> , British Columbia Institute of Technology Vancouver, Canada in January, 2006 on <b>Building Performance in the Boumerdes, Algeria, Earthquake of May 21, 2003</b> . 55 minutes.	500
• Audio-video lecture on a CD by <i>Ar. Robert Reitherman</i> , Consortium of Universities for Research in Earthquake Engineering, USA in November, 2005 on <b>The History of Earthquake Engineering from an International Perspective</b> . 66 minutes.	500
• Audio-video lecture on a CD by <i>Prof. Andrew W. Charleson</i> , School of Architecture, Victoria University of Wellington, New Zealand in November, 2005 on <b>Structure and Architecture: Architecture and Earthquakes</b> . 104 minutes.	500
• Audio-video lecture on a CD by <i>Late Prof. Bruce A Bolt</i> , University of California, USA in February, 2004 on <b>Seismic Hazard and its Quantification</b> . 3 lectures, 195 minutes total duration.	500
• Audio-video lecture on a CD by <i>Dr. Janise E. Rodgers</i> , GeoHazard International, Palo Alto, USA in May, 2006 on <b>Earthquake Resistant Design of Steel Buildings in the US</b> . 33 minutes.	500
• CD on e-course: <b>Indian Seismic Code IS: 1893-2002 (Part-I)</b> , conducted by Prof. Sudhir K. Jain, IIT Kanpur during January - February, 2003. Contains about 360 power point slides covered in 9 lectures.	1,200
• CD on e-course: <b>Seismic Design of Liquid Storage Tanks</b> , conducted by Prof. Sudhir K. Jain, IIT Kanpur and Prof. O.R. Jaiswal, VNIT Nagpur during January - February, 2006. Contains about 525 power point slides covered in 8 lectures.	1,200