

NICEE BROCHURE 2007



National Information Centre of Earthquake Engineering

MISSION

National Information Centre of Earthquake Engineering (NICEE) was established in IIT Kanpur with the mandate to empower all stakeholders in the building industry in seismic safety towards ensuring an earthquake resistant built environment. NICEE maintains and disseminates information resources on Earthquake Engineering. It undertakes community outreach activities aimed at mitigation of earthquake disasters. NICEE's target audience includes professionals, academics and all others with an interest in and concern for seismic safety.

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Sudhir K. Jain
Indian Institute of Technology Kanpur

The Indian Earthquake Problem

Facts

India has a very real earthquake problem. The past two decades have seen devastating earthquakes striking India with frightening regularity. India's four seismic zones emphasize that over 60% of land area in India is under moderate to severe earthquake hazard (IS: 1893, 2002).

Unsafe building stock makes the built environment vulnerable and this in turn results in loss of human life and property in the aftermath of earthquakes. The problem of ensuring sustainable built environment is aggravated when the structure is required to be designed for earthquake forces.

Concerns

Needs

The built environment has to be made earthquake resistant so that lives are not lost through the collapse of unsafe buildings. This requires the active participation of various professionals associated with the construction industry and the all stakeholders in building development and delivery.

SPONSORS

NICEE receives no budget from any sources and operates entirely on the interest income of its endowment, sponsorships, publication sales, and donations. One-time grants from the following organizations made it possible to launch the operations of NICEE:

Housing and Urban Development Corporation, New Delhi
Department of Telecom, New Delhi
Railway Board, New Delhi
Ministry of Agriculture, Government of India, New Delhi
Department of Atomic Energy, Mumbai

All donations to NICEE from within India and USA are 100% tax deductible.

For more information, please contact

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To receive a free monthly electronic newsletter, please register at www.nicee.org

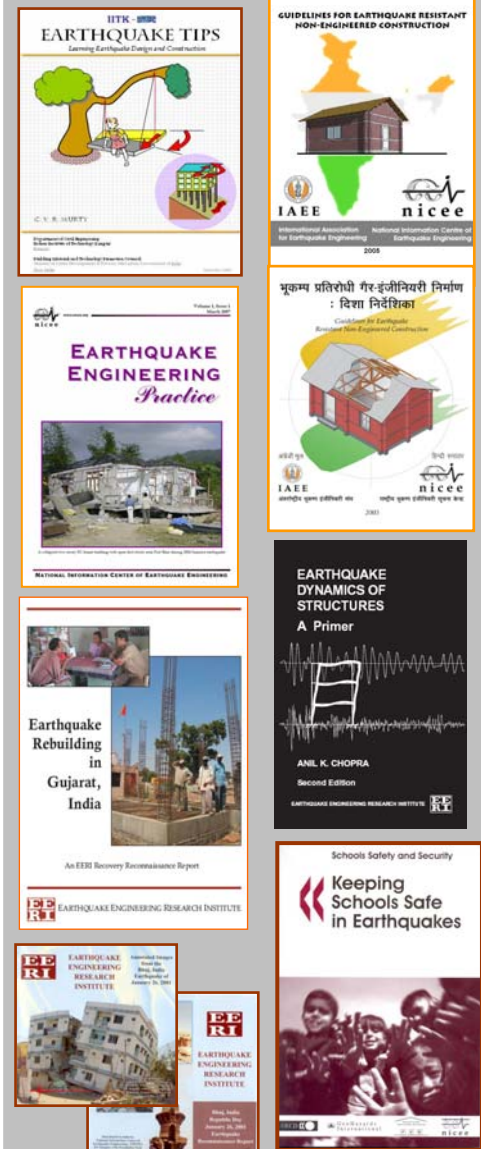


Capacity Building for Seismic Safety

NICEE undertakes a range of capacity building activities towards earthquake safety, such as

- **Procurement of Publications**
 - NICEE strives to maximize its acquisition of publications in earthquake engineering. These are maintained in the Central Library of IIT Kanpur.
- **Supply of literature**
 - Sent by post on requests received
 - Facilitation of visitors for literature review
- **Literature Survey Workshops**
 - For post graduate students and for faculty of engineering
 - About 75 students from across the country participate in an annual one-week workshop to conduct literature survey related to their thesis
- **Distribution of Special Publications**
 - A number of monographs are printed and distributed widely
- **Earthquake Engineering Practice – A Quarterly Periodical**
- **Distance Education Products**
 - CDs on audio-video lectures and on e-courses
 - Architectural Resource Material for Teachers of Architectural Colleges
 - Earthquake Engineering Laboratory Manual
- **Translation into Local Languages**
 - Hindi version of *Guidelines for Earthquake Resistant Non-Engineered Construction*
 - Oriya version of *Guidelines for Earthquake Resistant Non-Engineered Construction*
 - Hindi version of *IITK-BMTPC Earthquake Tips*
- **E-Conferences**
 - Two highly successful e-conferences by NICEE; proceedings available at www.nicee.org
 - *Indian Seismic Codes*, January 26 - February 8, 2002
 - *Professional Issues in Structural Engineering in India*, August 26 - 31, 2002
 - This lead to creation of Structural Engineers Forum of India (www.sefindia.org)
- **Web Site**
 - A resourceful and active website that includes:
 - Manuals and monographs
 - Commentaries on seismic codes
 - Photo gallery of past Indian earthquakes
- **Electronic Newsletter**
 - Monthly release to all members of NICEE e-mail listing (free of charge)
- **Email Listing**
 - Strong email list of people interested in earthquake engineering
 - About 5500 members as on August 2007

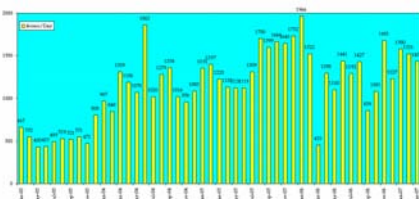
Some NICEE Publications



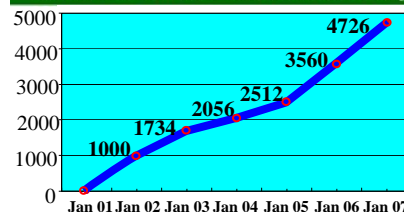
New Periodical Launched

EARTHQUAKE ENGINEERING PRACTICE

Web Site Access (Pages/Day)



Number of Subscribers (Email Listing)





NICEE Endorsement

Giving to NICEE

NICEE receives no budget from any sources and operates entirely on 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\$ 125,000) 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 NICEE activities.

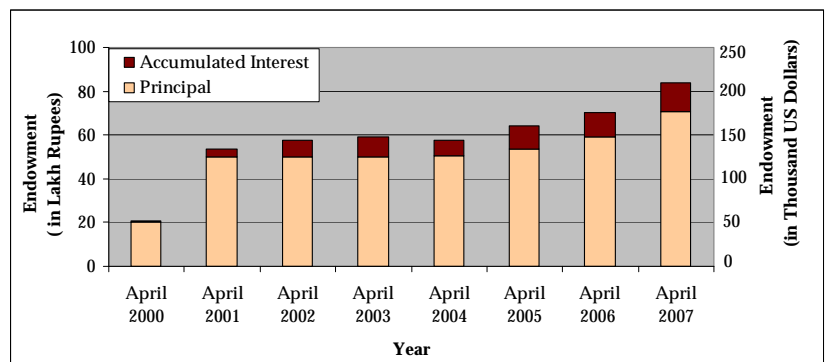
Beginning 2005, the general body of users of NICEE has also been making donations to the corpus, and has been paying for the publications on a voluntary basis. In April 2006, a number of Distance Learning Products were launched by NICEE; these are available on payment basis.

Over the years, NICEE activities have grown substantially. NICEE was able to maintain its growth by means of donations and income generated. NICEE's financial requirements continue to grow at the rate of about 40% annually while the interest income from its endowment has not been growing very substantially. NICEE needs to strengthen its financial stability by widening its resource base. For this NICEE seeks continued support of its existing patrons and fresh support from new users and well-wishers. NICEE welcomes all donations, irrespective of amount, from individuals and organizations. Such donations are critical for maintaining the pace and variety of activities that NICEE strives to undertake on a sustained and ongoing basis.

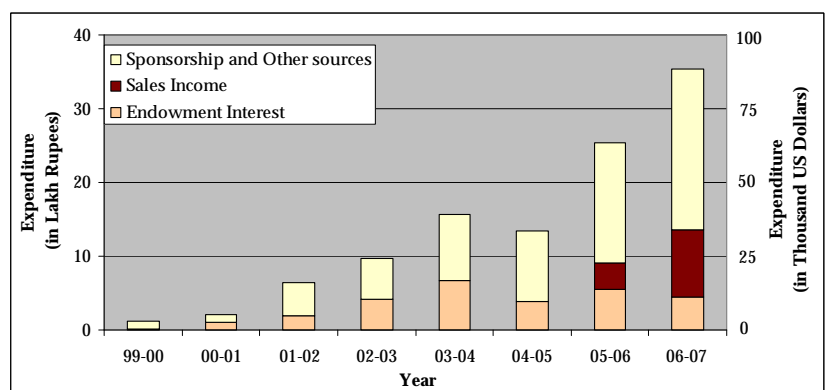
Resources from Publications

For several years, NICEE disseminated its publications free of cost. In January 2005, NICEE decided to nominally price its publications (Rs. 50 to Rs. 200; about US\$ 1.25 to US\$ 5), and started charging for these on a voluntary basis, that is, the users have an option to pay. In April 2006, NICEE released a number of Distance Education Products which are priced in the range of Rs 500 to Rs 1200 (about US\$ 12.50 to US\$ 30). In March 2007, NICEE launched a quarterly journal *Earthquake Engineering Practice* which is priced at Rs. 1000 for yearly subscriptions to libraries (Rs. 2000 for libraries overseas), but is FREE for individuals.

Endowment Corpus



Expenditure



DONATION FORM



Name: _____

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In case of IITK Alumni: Degree _____ Branch _____ Year of graduation _____

Intention and Purpose of Donation: Endowment Corpus of NICEE

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Draft/Cheque No. _____ dated _____

Comments: _____

Please mail your Cheque/Demand Draft to:

For donors not in the United States:

Cheque should be payable to "IIT Kanpur Endowment Fund" and mailed to:

Professor Sudhir K Jain
Coordinator NICEE
Department of Civil Engineering
Indian Institute of Technology Kanpur
Kanpur - 208016 (UP), INDIA
Phone: 0512-2597866
email: nicee@iitk.ac.in

All donations are 100% exempt under section 80G of Indian Income Tax.

For donors in the United States:

Cheque should be payable to "IIT Kanpur Foundation" and mailed to:

Mr. Abhay Bhushan
CFO, IIT Kanpur Foundation
3838 Mumford Place
Palo Alto, CA 94306, USA
Phone: 650-868-6645

All donations are 100% tax exempt from IRS in the United States. (Federal Tax ID: 94-3370645)

Donate Online by Credit Card:

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

Donors from any country other than USA: http://www.nicee.org/NICEE_donation.php

Donation by Credit Card

Please bill my credit card: Master Card Visa

Card No: _____ Expiry Date: _____

Name on Card: _____

Make this Donation: _____ One time

_____ Recurring _____ Monthly or _____ Annually

_____ Until Further Notice or for _____ number of periods

Date _____

Signatures _____

Distance Education Products



- Orders from overseas must add Rs. 250/- per item (Rs. 600/- for items 12 and 13) for airmail postage and handling
- Exchange rate in August 2007: US\$ 1.0 ~ Rs. 40

S. No.	Title	Price (Rs)
1	<p>Concept of Earthquake Resistant Design</p> <p>This CD-ROM contains the video documentations of a lecture by Professor Sudhir K. Jain delivered at IIT Kanpur in February 2003. The lecture covers objectives of earthquake resistant design, implications of design objectives, level of design forces, nature of aseismic design problem, earthquake forces, response spectrum and capacity design concept used in earthquake resistant design. <i>37 minutes.</i>¹</p>	500
2	<p>Seismic Retrofit Techniques for Masonry Buildings - An Overview</p> <p>This CD-ROM contains the video documentation of a lecture by Dr. Svetlana N. Brzev delivered at IIT Kanpur in December 2005. The lecture covers seismic performance of masonry buildings, masonry walls, their behaviour and failure mode and seismic retrofit methods. All the concepts are supported with explanatory sketches and photographs. <i>62 minutes.</i>¹</p>	500
3	<p>Buildings on Rollers -Use of Passive Control Devices for Seismic Protection of Structures</p> <p>This CD-ROM contains the video documentations of two lectures by Dr. Svetlana N. Brzev delivered at IIT Kanpur in December 2005. The lectures cover concepts of passive seismic control systems, working and performance of building isolation, design of building isolation in structures, seismic dampers and damper design. Retrofit case-studies with number of photographs discussed at the end, is an added advantage of this lecture. <i>105 minutes.</i>¹</p>	500
4	<p>Seismic Design & Retrofit of Nonstructural Building Components</p> <p>This CD-ROM contains the video documentation of a lecture by Dr. Svetlana N. Brzev delivered at IIT Kanpur in December 2005. The lecture covers seismic performance and failure modes, performance objectives, design codes and recommendations and seismic retrofit solutions. The main attraction of the lecture is introduction to simple calculations for seismic design of nonstructural building components. <i>63 minutes.</i>¹</p>	500
5	<p>Building Performance in Boumerdes (Algeria) Earthquake of 21 May 2003</p> <p>This CD-ROM contains the video documentation of a lecture by Dr. Svetlana N. Brzev delivered at IIT Kanpur in December 2005. The lecture provides an overview of the 2003 earthquake, background on the Algerian construction practices and building codes, and the observations related to the causes and patterns of building damage due to the 2003 Boumerdes earthquake. <i>55 minutes.</i>¹</p>	500
6	<p>The History of Earthquake Engineering from an International Perspective</p> <p>This CD-ROM contains the video documentation of a lecture by Ar. Robert Reitherman delivered at IIT Kanpur in November, 2005. The lecture covers importance of Earthquake Engineering history, its gradual evolution in different parts of the world, major earthquakes and their contribution towards development of the subject and a discussion based on case studies. <i>66 minutes.</i>¹</p>	500
7	<p>Structure & Architecture, Architecture & Earthquakes</p> <p>This CD-ROM contains the video documentation of two lectures by Professor Andrew W. Charleson delivered at IIT Kanpur in November, 2005. The lectures cover relationship between architectural and structural form, building interior, building function, structural detailing, structure and light, representation and symbolism. It is rendered with beautiful, architecturally appealing and eye catching photographs to elaborate the concepts. <i>104 minute.</i>¹</p>	500
8	<p>Seismic Hazard and Its Quantification</p> <p>This CD-ROM contains the video documentation of a series of three lectures (each of approximately 60 minutes) by Late Professor Bruce A. Bolt, delivered at IIT Kanpur in February 2004. These lectures cover world seismicity, global seismic hazard and seismic hazard quantification. The highlights of these lectures include some advanced techniques of seismic hazard quantification and the success story of scientific seismic hazard estimation leading to excellent performance of the trans-Alaska pipeline¹.</p>	500
9	<p>Earthquake Resistant Design of Steel Buildings in the US</p> <p>This CD-ROM contains the video documentation of a lecture by Dr. Janise E. Rodgers delivered at IIT Kanpur in May, 2006. The lecture covers basic knowledge of steel structures, seismic design of conventional steel structural systems such as moment frames, concentrically braced frames and eccentrically braced frames, and seismic design of new and innovative steel structural systems. <i>33 minute.</i>¹</p>	500

