

16th SEE-2018
16th Symposium
on
Earthquake Engineering

(December 20-22, 2018)



Venue

**Department of Earthquake Engineering
Indian Institute of Technology Roorkee, India**

Organized by

**Department of Earthquake Engineering
Indian Institute of Technology Roorkee,
Roorkee 247 667, India**

and

**Indian Society of Earthquake Technology
Roorkee 247 667, India**



PRESENTATION OF PAPERS

Presentation of technical papers will be either in oral or poster session. Each oral session will begin with an invited Keynote Speaker. Projection facilities (LCD and overhead projectors) will be provided for oral presentations. Display boards will be made available to presenting authors for poster sessions.

WHO SHOULD PARTICIPATE

All individuals and organizations engaged in mitigating the disastrous effects of earthquakes and working towards the noble cause of reducing the human miseries are invited to participate and contribute in the Symposium. These include: Practicing Earthquake, Civil, Geotechnical and Structural Engineers; Seismologists, Geologists and Geophysicists; Architects, R&D and Educational Institutions, Consultancy Organizations, Government Officials, Local bodies and NGO's connected with Earthquake Disaster Mitigation activities, Civil Engineering and Infra-structure Development Organizations, Engineers from Electrical Equipment Manufacturer, Construction Companies, Repair and Rehabilitation Agencies etc.

OFFICIAL LANGUAGE

The official language of the Symposium will be English.

REGISTRATION

Information for registration will be provided shortly.

ACCOMMODATION, TRAVEL & TRANSPORT

Limited accommodation on payment basis shall be available in Guesthouses and Hotels. Organizations will make arrangements on request. Hotel accommodation will also be made available on request.

PROGRAMME FOR ACCOMPANYING PERSONS

Local sight-seeing tours will also be organized for the accompanying persons on nominal cost.

POST SYMPOSIUM TOUR (23-25 DECEMBER)

If sufficient number of delegates respond, a post-Symposium tour will be conducted to Taj Mahal at Agra, the pink city Jaipur and Garhwal Lesser Himalaya. Delegates may please contact to the Organizing Secretary for further information.

SPONSORSHIP

In order to make the Symposium a success, institutions and Organizations are requested to sponsor the Symposium. The details of Sponsorship fees is as under:

Sponsors	Rs. 2.00 Lakhs (04 free delegates)
Co-Sponsor	Rs. 1.00 Lakhs (03 free delegates)
Exhibitor	Rs. 0.50 Lakhs (01 free delegates)

The names of sponsors will appear in the next circular and will be prominently acknowledged and displayed at the venue of the Symposium.

TECHNICAL EXHIBITION

A technical exhibition will be organized to display the themes of the Symposium. Exhibits include instruments, equipments, software, video films of damage surveys, photographs and published material related to Earthquake Engineering and allied fields. Interested organizations and persons are advised to contact the Organizing Secretary for the space required to display the material.

ABOUT ROORKEE

Situated in the foot hills of the Himalaya, Roorkee is the gate way to pilgrimage places and caters of tourists attraction like Haridwar, Rishikesh, Mussoorie, etc. Roorkee is located on the Amritsar-Howrah main line of the Northern Railway and is well connected by train route and road to New Delhi, Dehradun, Haridwar, Rishikesh and other places in Uttar Pradesh, Punjab and Haryana. The nearest National and International airports are Dehradun and New Delhi, respectively. The trains like Shatabadi and Janshabadi are good links to New Delhi. Weather is generally cold at Roorkee during December, with temperature ranging from 8°C to 18°C and heavy woolen clothes are advised.

Patron

Prof. A.K. Chaturvedi
Director, IIT Roorkee
Roorkee

Chairman

Dr. Yogendra Singh
Professor & Head
Deptt. of Earthquake Engineering
IIT, Roorkee

**Organising Secretary
Prof. B.K. Maheshwari**

Department of Earthquake Engineering
Indian Institute of Technology Roorkee

For more information please look out for next announcement or contact:

Organising Secretary 16 SEE-2018
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E Mail : 16see@iitr.ac.in

IMPORTANT DATES TO REMEMBER

Last date of receipt of abstract	Feb. 15, 2018
Date of mailing provisional acceptance of abstracts	Feb. 28, 2018
Last date of receipt of full paper	April 30, 2018
Acceptance of full paper	May 31, 2018

**16th Symposium
on
EARTHQUAKE ENGINEERING
(16 SEE-2018)
December 20-22, 2018**

Department of Earthquake Engineering, established in 1960 as School of Research and Training in Earthquake Engineering, remained the fountainhead of Earthquake Engineering Education in the country. The major functions of the Department include teaching, research, training and rendering advice in the field of earthquake engineering. The Department has been instrumental in nurturing four major fields of Earthquake Engineering namely, Structural Dynamics, Soil Dynamics, Engineering Seismology & Seismotectonics and Seismological Instrumentation. The multidisciplinary character makes this Department one of its kind in India and amongst a few in the world. Since its inception the Department has been organizing symposia, workshops, seminars, short term training programmes and special lectures for the purpose of discriminating scientific knowledge and technical know-how in Earthquake Engineering and allied fields.

THE SYMPOSIUM

The 16th Symposium on Earthquake Engineering will be held at Department of Earthquake Engineering, IIT Roorkee from Dec.20-22, 2018. Fifteen Symposia of similar nature, held in the past at an interval of four years, have made significant impact on the development and enhancement of Earthquake Engineering Education and Research. The 16th symposium assumes great significance as it will provide a platform to review the contributions and accomplishments of the Department in the field of Earthquake Engineering in the last fifty years and draw an agenda for future course of action keeping the national need in the forefront. Lately there has been a paradigm shift and more emphasizes is laid on disaster mitigation. The damage scenario due to recent earthquakes have once again highlighted the need to evolve appropriate strategies to enhance the knowledge on earthquake resistant construction and to ensure that the same is put to use by the end user.

OBJECTIVE OF THE SYMPOSIUM

The purpose of the symposium is to exchange professional experience and recent technological advances in Earthquake Engineering and allied fields. During last few years new policies at the national level have been debated and evolved, and limitations in providing relief measures during rescue operations have been realized. Lack of proper design to cater extreme events with long return period, poor quality of construction, inadequate administrative and legislative measures, problem of up-gradation of existing building stock, absence of appropriate mechanism for dissemination of technical know-how and awareness about earthquake resistant construction have formed the agenda of these debates. Appropriate plans and

measures to be adopted at different administrative, technical and scientific levels have been devised by national bodies. This Symposium will provide a platform for researchers, professionals, planners and policy makers associated with Earthquake Engineering to share their views and opinions.

CALL FOR PAPERS

An abstract of the paper should be sent by Feb. 15, 2018 to 16see@iitr.ac.in or submit online at www.iitr.ac.in/16see.

THEMES

All topics related to Earthquake Engineering and Earthquake Disaster Mitigation are invited. Following is a suggestive (not exhaustive) list of themes:

1. Engineering Seismology and Seismotectonics
2. Experience Derived from Recent Earthquakes and Tsunamis
3. Earthquake studies using GIS/GPS/SAR/Remote Sensing
4. Earthquake Hazard Assessment
5. Seismic Instrumentation
6. Strong Ground Motion, Site Characterization and its Effects
7. Dynamic Properties of Soils and Ground Response
8. Liquefaction and Seismic Ground Improvement
9. Seismic Safety of Foundations and Machine Foundations
10. Seismic Soil Structure Interaction
11. Slope Stability under Seismic Conditions and Design of Embankments
12. Earth Pressure and Retaining Walls under Seismic Conditions
13. Seismic Safety of underground and Buried Structures and Pipelines
14. Special Materials, Structures and Systems
15. Earthquake Response Analysis, Design and Construction
16. Codal Provisions on Earthquake Resistant Design
17. Seismic Vulnerability, Risk and Resilience Assessment
18. Structural Response Control
19. Seismic Testing of Structures and Equipment
20. Seismic Evaluation and Retrofitting of Structures
21. Seismic Safety of non-structural Components, Equipment and Services in Buildings.
22. Seismic Safety of Industrial Structures and Thermal and Nuclear Power Stations.
23. Seismic Safety of Bridges and Dams.
24. Seismic Safety of Historical structures and Monuments
25. Seismic Safety of Offshore and Onshore Structures, including Effects of Tsunami.
26. Damage Detection and System Identification
27. Life Line and Urban Systems
28. Microzonation and Urban Planning
29. Earthquake Disaster Mitigation and Management
30. Human Response and Socio-Economic issues
31. Post-earthquake Rehabilitation
32. Earthquake Engineering Education
33. Public Awareness, Participation and Enforcement of Building Safety Laws
34. Earthquake Prediction and Early warning System

Preliminary Registration Form

16th Symposium

on

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Department of Earthquake Engineering
Indian Institute of Technology, Roorkee, India
(December 20-22, 2018)
(Tel: +91-01332-285228, Fax +91-1332-276899)**

Name:
(Surname First)

Designation:

Address:
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.....

Accommodation Required Yes/No

Phone:

Fax:.....

E-Mail:

Enclosed please find Demand Draft.....

Dated..... for Rs./US\$.....

No. Bank.....

towards delegation fee for for Person(s)/sponsorship/cosponsorship charges enclosed.

The Bank draft should be drawn in favour of 16 SEE-Symposium of Earthquake Engineering and Payable at Roorkee.

Date:..... Signature.....