



# NEWSLETTER

January - December 2022

*Indian Society of Earthquake Technology*

(Established in 1962; Registration No. 845/64-65)

Department of Earthquake Engineering Building

Indian Institute of Technology Roorkee, Roorkee-247 667, India

(Affiliated to International Association for Earthquake Engineering)

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Co-Editor:

P. C. Ashwin Kumar

## Honorary Fellowship of ISET

Prof. R.K. Bhandari and Prof. S.K. Thakkar were awarded the Honorary Fellowship during 17th Symposium on Earthquake Engineering held from November 14-17, 2022 at Roorkee.



Prof. R.K. Bhandari, HF-11 (Right) and Prof. S. K. Thakkar HF-10 (Second Right)

## CALL FOR PAPERS

Dear Colleagues,

It is our pleasure to inform you that the ISET Journal is listed in UGC-CARE. All the past issues of the Journal are available online at <https://iset.org.in/issues>.

ISET Members are invited to submit their research papers for possible publication in the ISET Journal of Earthquake Technology. The PDF file of the manuscript should be submitted to the Editor electronically on the journal editor's email ID at [editor@iset.org.in](mailto:editor@iset.org.in) for possible publication of an article in the Journal. The submission may please be copied to [matsagar@civil.iitd.ac.in](mailto:matsagar@civil.iitd.ac.in) and [ravi.jakka@eq.iitr.ac.in](mailto:ravi.jakka@eq.iitr.ac.in). For manuscript preparation guidelines & other information, please visit: <https://iset.org.in/>

Thanking you,

Prof. Ravi S. Jakka & Prof. Vasant A. Matsagar  
Editors

## Glimpses of ISET Awards Ceremony for Significant Contributions & Research Awards

**ISET Biot Award** for Significant Contributions to Earthquake Engineering with emphasis on Biot Response Spectrum Method has been awarded to **Prof. Vinay K. Gupta**, Department of Civil Engineering, IIT Kanpur for the year 2022. The award consists of award money of Rs. 2,00,000/- and a citation.



**ISET Trifunac Award** for Significant Contributions in Strong Motion Earthquake Studies has been awarded to **Dr. Ishwer Datt Gupta**, Ex-Director, Central Water and Power Research Station (CWPRS), Pune for the year 2022. The award consists of award money of Rs. 30,000/- and a citation.



**ISET Shamsher Prakash Mid-Career Research Award** for Significant Contribution in Geotechnical Earthquake Engineering has been awarded to **Prof. Neelima Satyam**, Dept. of Civil Engineering, IIT Indore, Khandwa Road, Simrol, Indore for the year 2022. The award consists of award money of Rs. 51,000/-, plus Shawl and a Plaque.

**ISET T.G. Sitharam Mid-Career Research Award** for Innovations in Geotechnical Earthquake Engineering has been awarded to **Dr. Ravi S. Jakka**, Associate Professor, Department of Earthquake Engineering, IIT Roorkee for the year 2022. The award consists of award money of Rs. 30,000/-, plus certificate and a Plaque.



**ISET Shamsher Prakash Early-Career Research Award** for Significant Contribution in Geotechnical Earthquake Engineering has been awarded to **Dr. Supriya Mohanty**, Department of Civil Engineering, Indian Institute of Technology (BHU), Varanasi, India for the year 2022. The award consists of award money of Rs. 51,000/-, plus Shawl and a Plaque.



**ISET D.K. Paul Research Award** for Best Ph.D Thesis in Earthquake Risk Reduction in India has been awarded to **Dr. P. Pravin Kumar Venkat Rao**, Assistant Professor, Earthquake Engineering Research Centre (EERC), International Institute of Information Technology (IIIT) Hyderabad for the year 2022. The award consists of award money of Rs. 60,000/- and a citation.



**ISET B.K. Maheshwari Research Award** for Best Ph.D. Thesis in Soil-Structure Interaction in India has been awarded to **Dr. Ramon Varghese**, Postdoctoral Researcher, University College Dublin for the year 2022. The award consists of award money of Rs. 11,000/- and a citation.



**ISET V.H. Joshi Award** for Significant Contribution in Structural Dynamics has been awarded to **Prof. Firdaus E. Udwadia**, University of Southern California, Los Angeles, USA and **Prof. Maria I. Todorovska**, School of Civil Engineering, Tianjin University, Tianjin, China, and Sonny Astani Department of Civil & Environmental Engineering, University of Southern California, Los Angeles, California, USA for the year 2022 respectively. The award consists of award money of Rs. 1,25,000/- (US\$ 1523.10, jointly) and a citation.

**The details of the winners of the ISET publication awards for the Block Years 2017-2020 is given below:**



**ISET Jai Krishna Award** for the best paper published in ISET publications, entitled "Comparative Assessment of Seismic Fragility of RC Frame Buildings Designed for Older and Revised Indian Standards" has been awarded to Yogendra Singh (Corresponding author), and Mayur Pisode, Mitesh Surana & Putul Haldar (Co-authors). The award consists of award money of Rs. 5,000/-, award Certificate.

**ISET B.N. Gupta Award** for the best paper in Seismology and Seismotectonics, entitled "Probabilistic Seismic Hazard Mapping of Northwest India Using Area Sources with Non-Uniform Spatial Distribution of Seismicity" has been awarded to Vinay K. Gupta (Corresponding author), and A.K. Jaisal & Ishwer D. Gupta (Co-authors). The award consists of award money of Rs. 5,000/-, award Certificate.





**ISSET Hanumantacharaya Joshi Award** for the best paper in Structural Dynamics, entitled "Seismic Performance of Open Ground Storey Reinforced Concrete Building with Chevron Steel Bracing Incorporating X-Plate Damper" has been awarded to C.K. Madheswaran (Corresponding author), and N. Gopalakrishnan, J. Prakashvel & K. Sathishkumar (Co-authors). The award consists of award money of Rs. 5,000/-, award Certificate.

**ISSET V.H. Joshi Award** for the best paper in Soil Dynamics, entitled "Effect of Soil-Structure Interaction on Base-Isolated Machine Foundations" has been awarded to Vasant Matsagar (Corresponding author), and Karmegam Rajkumar, Ayothiraman Ramanathan & Lothar Stempniewski (Co-authors). The award consists of award money of Rs. 5,000/-, award Certificate.

### Members' News

#### **ISSET Fellows/IGS Member received IACMAG (International Association for Computer Methods and Advances in Geomechanics) Awards-2022**

Pleased to inform you that the following ISET Fellows and IGS Member were recently awarded with IACMAG (International Association for Computer Methods and Advances in Geomechanics) Awards (for details visit <https://www.iacmag.net/2022>)



**Outstanding Contributions Medal**  
Prof. D.N. Singh (**IGS LM 1601**)  
Dept. of Civil Engineering  
IIT Bombay



**John Booker Medal**  
Prof. B.K. Maheshwari (**ISSET LF 46**)  
Dept. of Earthquake Engineering  
IIT Roorkee, Roorkee-247667, Uttarakhand



**Excellent Contributions (Regional)**  
Dr. Pijush Samui (**ISSET LF 62**)  
Department of Civil Engineering  
NIT Patna, Patna-800005, Bihar

These Awards were presented during 16<sup>th</sup> International Conf. of IACMAG held in Torino, Italy, during August 30<sup>th</sup> to September 2<sup>nd</sup>, 2022. Prof. Maheshwari and Dr. Samui visited Italy and received the awards in person from Prof. John Carter, the President, IACMAG.

ISSET congratulates all these awardees and wish them more laurels in future.



**ICOLD Honorary Member Award:** Dr. Martin Wieland (Life Member of ISET - 561) from Switzerland received an Honorary Member Award at the World Congress of the International Commission on Large Dams (ICOLD), which was held in Marseille, France, from May 29 to June 3, 2022. The ICOLD Honorary Member Award was established in 2000. It is awarded to experts who have made outstanding contributions to the development of dams in the world or have made great achievements in the field of dam engineering. ICOLD was founded in 1928 and is one of the oldest international professional organisations. There are 104 member countries with approximately 10,000 individual members. Dr. Wieland has been the chairman of the ICOLD Committee on Seismic Aspects of Dam Design since 1999; 34 member countries are represented in this technical committee, which was created in 1968. Large concrete and embankment dams are also the first structures that were designed to resist earthquakes - on a worldwide basis - since the mid-

1930s when Hoover dam was built.



## Brief Report of 17<sup>th</sup> Symposium on Earthquake Engineering, 43<sup>rd</sup> ISET Annual Lecture and 52<sup>nd</sup> ISET Annual General Meeting

Department of Earthquake Engineering, IIT Roorkee and Indian Society of Earthquake Technology (ISET) were jointly organized the 17th Symposium on Earthquake Engineering (17SEE), from November 14-17, 2022 at IIT Roorkee. In this Symposium 300 plus delegates representing several Government/Semi-Government Organizations/Institutions, International Universities, Regional Engineering Colleges, Private Organizations, NGOs, and other individual experts participated and shared their work and thoughts. In total 251 papers were



accepted for the Conference and 230 presentations took place in 47 technical sessions, which included 35 keynote lectures. The Proceedings of this Symposium are being published through Springer.

During the symposium, ISET has also organized the 43rd ISET Annual Lecture, the 52nd ISET Annual General Meeting, Honorary Fellowships, and the ISET Awards ceremony. **Prof. Vinay K. Gupta**, Department of Civil Engineering, I.I.T. Kanpur delivered the ISET Annual Lecture entitled '**Recent Developments in Response Spectrum-Based Modal Combination Rules**' on November 15, 2022 in Jai Krishna Hall, The Institution of



Engineers (I), Roorkee Local Centre, Roorkee. Prof. T.G. Sitharam, President, ISET presided over the function.

Prof. B.K. Maheshwari, Vice-President introduced the eminent speaker. The abstract of the Lecture is given below:

*The estimation of peak linear response via elastic design (response) spectra continues to form the basis of the earthquake-resistant design of structural systems in various codes of practice all over the world, and it is common to use the design pseudo spectral acceleration (PSA) spectrum characterizing the seismic hazard at the site of the structure together with a response spectrum-based modal combination rule for this purpose. Many response spectrum-based formulations of peak linear response also require the input of the spectral velocity (SV) ordinates consistent with the specified seismic hazard in order to account for modal correlations in a simple manner. To this end, SV ordinates have been conventionally approximated as pseudo spectral velocity (PSV) ordinates. However, the PSV ordinates are known to be close to the SV ordinates only over the intermediate frequency range coinciding with the velocity- sensitive region. The PSV approximation may lead to large overestimation errors when the structure is stiffer to the ground motion. Also, at long periods, PSV ordinates underestimate the SV ordinates. Due to these limitations, the use of PSV approximation for the SV ordinates has been largely avoided and alternative means involving the moments of power spectral density functions have been employed, thus increasing the complexity of the response spectrum-based modal combination rules. It is also quite uncommon to use the relative spectral acceleration (RSA) ordinates in the response spectrum-based modal combination rules, and thus little attention has been paid to the estimation of RSA ordinates consistent with the specified design PSA spectrum. These ordinates may be required in the estimation of peak floor accelerations, which are useful for ensuring the safety of rigid nonstructural components in structural systems.*

*This lecture focuses on the estimation of the SV and RSA ordinates directly from a design PSA spectrum. It will also be shown how the proposed approximations can be used in the response spectrum-based modal combination rules to estimate peak linear responses while avoiding the tedious calculations of spectral moments and still not ignoring any modal correlations.*

Prof. Vishwas A. Sawant, Secretary, ISET proposed a vote of thanks. The Annual Lecture was attended by a large number of Faculty, Engineers, Academicians, and Students. The 43<sup>rd</sup> ISET Annual Lecture was followed by the 52<sup>nd</sup> Annual General Meeting at the same venue. The glimpses of the events can be viewed at <https://iset.org.in/gallery>.

## Online Application for ISET Membership

The homepage of the Society has been updated and a new online membership platform has been created to facilitate joining of new members. For applying membership online, please log on to: <https://www.iset.org.in/signUpUserForm>

The screenshot shows a web browser window displaying the 'Sign Up Form' for the Indian Society of Earthquake Technology (ISET). The browser's address bar shows the URL 'iset.org.in/signUpUserForm'. The website header includes the ISET logo and the text 'INDIAN SOCIETY OF EARTHQUAKE TECHNOLOGY', 'Established in 1962. Founding Member of the International Association for Earthquake Engineering'. The navigation menu includes links for HOME, ABOUT US, OFFICE/BOARDS, EVENTS & ACTIVITIES, PUBLICATIONS, MEMBERSHIP, YOUNG, GALLERY, CONTACT, and SIGN UP/LOGIN. The 'Sign Up Form' itself has fields for Email (with 'admin' entered), Password, and Confirm Password. A red error message 'Passwords Mismatch' is displayed below the password fields. There is a checkbox for 'I'm not a robot' and a link to 'Terms of Service'. At the bottom of the page, there is a footer with 'Founding member of' logo, 'Quick links' (Forums, Member Login, ISET Journal, ISET Annual Lecture, Seminars, 6th WCE, 7CKAGEE, Download now), 'Contact Us' (Secretary, Indian Society of Earthquake Technology, Earthquake Engineering Department Building, Room No-207 A&Z, Uttarakhand, INDIA, Tel: 0291-172-284491, Fax: 0291-1332-284481, Email: office@iset.org.in, info@iset.org.in), and a map. The footer also includes 'Terms and conditions', 'Privacy policy', and 'Copyright ©2005 All rights reserved'. The Windows taskbar at the bottom shows the time as 11:48 AM on 1/13/2020.

**Geotechnical Earthquake Engineering Webinars**  
**Organized by Department of Earthquake Engineering, IIT Roorkee & Indian Society of Earthquake Technology**  
**Supported by IGS Roorkee Chapter, CSIR-CBRI Roorkee and TC203, ISSMGE**  
**Schedule of Webinars (December 2021 to December 2022)**

S. No	Name	Affiliation	Date	Title of the Webinar
Inaugurated by Prof. Kenji Ishihara, Chuo University, Japan on Dec. 8, 2021				
1.	Prof. Misko Cubrinovski	University of Canterbury, New Zealand	Dec. 8, 2021	Mechanics-based Evaluation of Soil Liquefaction
2.	Prof. Ikuo Towhata	Prof. Emeritus, University of Tokyo, Japan	Jan. 27, 2022	Ground Water is More Important in Triggering Landslides than so far Supposed
3.	Prof. Scott J. Brandenburg	University of California at Los Angeles, USA	Feb 10, 2022	Seismic Analysis of Levee Systems
4.	Prof. Sebastiano Foti	Politecnico di Torino, Italy	March 24, 2022	Stochastic Analysis of Seismic Ground Response
5.	Prof. Ioannis Anastasopoulos	ETH Zurich, Switzerland	April 13, 2022	Vulnerability Assessment and Retrofit of Existing Bridge Foundations
6.	Prof. Jonathan D Bray	University of California at Berkeley, USA	May 11, 2022	Selection of Seismic Coefficient in Assessing Seismic Slope Stability
7.	Prof. D. Choudhury	Indian Institute of Technology Bombay, India	June 7, 2022	Design Solutions for Complex Geostuctures under Dynamic Loadings: Case Studies
8.	Prof. Kyle M Rollins	Brigham Young University, USA	July 28, 2022	Liquefaction - Induced Downdrag in Single Piles and Pile Groups
9.	Prof. T.G. Sitharam	Indian Institute of Technology Guwahati, India	August 26, 2022	Engineering Preparedness for Earthquake Disaster Mitigation - Towards Disaster Resilience Society
10.	Prof. George Gazetas	National Technical Univ. of Athens, Greece	Sept. 20, 2022	Design of Rocking Foundations for Seismic Safety and Resilience
11.	Prof. M.H. El Naggar	Western University, Canada	Nov. 22, 2022	Performance-based design of extended pile shafts subjected to cyclic loading
Valedictory function presided by Prof. Izzat M. Idriss, Professor Emeritus University of California Davis, USA on Dec. 9, 2022				
Abstract Volume of 1 <sup>st</sup> Webinar Series on Geotechnical Earthquake Engineering (GEE) can be viewed at <a href="https://www.iitr.ac.in/gecwebinars/pdf/book.pdf">https://www.iitr.ac.in/gecwebinars/pdf/book.pdf</a>				

### Donation to ISET

To make donation to ISET, easy payment through net banking has been operationalized. The ISET bank accounts details are as under:

	Indian Overseas Bank, Roorkee	Punjab National Bank, Roorkee
Name of the Account	Secretary, Indian Society of Earthquake Technology	Secretary, Indian Society of Earthquake Technology
Account Number	035901000001269	404400 0100147706
Name of the Bank	Indian Overseas Bank	Punjab National Bank
Address	Indian Overseas Bank, Civil Lines, Roorkee	Punjab National Bank, IIT Campus, IIT Roorkee
Branch Code	0359	404400
IFSC Code	IOBA0000359	PUNB0404400

Only 50% of the donated amount is tax-exempt under 80G of the Income Tax Act of 1961 and a list of donors will be provided in ISET Web-Site and ISET News Letter. The detailed receipt will be emailed/posted.

We look forward to your valued support for making ISET to reach even greater heights.

## Brief Report of STASDM-22 Symposium, The 42<sup>nd</sup> ISET Annual Lecture & 51<sup>st</sup> ISET Annual General Body Meeting

On account of celebrating 60 glorious years of the Indian Society of Earthquake Technology (SET), the Centre for Disaster Management and Research (CDMR), IIT Guwahati, North Eastern Space Application Centre (NESAC), Assam State Disaster Management Authority (ASDMA), Department of Earthquake Engineering IIT Roorkee and ISET jointly were organized a two-day symposium “Socio-Technological Aspects of Seismic Disaster and Mitigation (STASDM)” on 23 and 24 June 2022 at IIT Guwahati. Prof. T.G. Sitharam, Director IIT Guwahati, who is also the President of ISET was the Patron of the symposium. There were plenary talks, followed by invited talks in the domain of Seismic Disaster and Mitigation by various stalwarts across the country. Talks were delivered both in online and offline mode. Various important themes such as Seismic hazard, Soil Structure interaction, seismic analysis of structures, paleoseismology, Society, Gender, and Earthquakes etc. were the prime focus of the above symposium. Students, faculty, and field engineers from different parts of North East, and other parts of the Country participated and presented their research findings. Assam is severely affected by floods at present and is very prone to earthquake shaking in general. There was a panel discussion where experts from institutes such as ASDMA, NESAC, as well as various industries participated as discussants to discuss how to deal with seismic disasters and mitigation and further direction in policy making.

During the Symposium, ISET has also organized the 42<sup>nd</sup> ISET Annual Lecture and the 51<sup>st</sup> ISET Annual General Meeting. **Prof. Rajesh Dhakal**, Deputy Head of Department, Civil & Natural Resources Engineering, University of Canterbury, Christchurch, New Zealand delivered the ISET Annual Lecture entitled ‘**Beyond Life-Safety: The Quest Continues**’ online on June 23, 2022. Prof. T.G. Sitharam, President, ISET presided over the function. Prof. B.K. Maheshwari, Vice-President introduced the eminent speaker. The abstract of the Lecture is given below:

*When the concept of seismic design started early in the 20th century, it was initially expected that structures can be rendered earthquake-safe if they are designed to be stronger than the maximum seismic force likely to be imposed in their lifetime. Due to fundamental deficiencies in the knowledge of earthquake engineering/science and understanding of seismic performance of structures then, early seismic design practices had inherent flaws. With hindsight, it is now widely accepted that majority of existing old buildings are seismically vulnerable and need urgent intervention to enhance their seismic performance. Unsurprisingly, loss of lives in recent earthquakes has mainly originated predominantly from the collapse of old buildings.*

*Gradually evolving from the maiden naïve approach, the current version of seismic design targets life-safety in large and rare earthquakes. As a result, not many 21st century buildings have collapsed, and people have rarely died in such buildings even in very severe earthquakes. However, modern seismic design allows structures to damage even in minor-moderate shakings. Consequently, our modern building stock has invariably suffered damage in all recent earthquakes, and the financial losses to the community arising from damage and downtime of these buildings have been unacceptably high in many earthquakes.*

*Following the 2010-11 Canterbury (New Zealand) earthquake sequence, New Zealand engineers (justifiably) claimed that the performance of building stock in general was better than expected. This has perplexed the New Zealand public who are still struggling to cope with the huge scale of financial loss caused by this earthquake sequence. They are asking: “How can the engineers say we have done well? Do we need to go broke before they realize we have failed miserably?” This difference is mainly because of the different expectations of the engineers (life-safety) and the general public (economic consequences). Hence, it is necessary that the seismic design objectives be matched in line with public expectations.*

*Observations from recent earthquakes have highlighted that the majority of seismic loss in buildings are attributable to damage of secondary components (known as the non-structural elements). Hence, enhancing seismic performance of non-structural elements (SPONSE) is a must if we want to minimize financial implications of future earthquakes. Unsurprisingly, awareness of the importance of SPONSE research has significantly increased lately, and researchers are striving to better understand the inherent weaknesses in the current NSEs’ design and installation practices and to develop low-damage solutions for key NSEs.*

Prof Vishwas A. Sawant, Secretary, ISET proposed vote of thanks. The Annual Lecture was attended online by large number of Faculty, Engineers, Academicians and Students. The 50<sup>th</sup> Annual General Meeting was followed by 42<sup>nd</sup> ISET Annual Lecture in on line mode.



### Book “Guidelines for Earthquake Resistant Non-Engineered Construction”

The Society has reprinted 500 copies of the book entitled “Guidelines for Earthquake Resistant Non-Engineered Construction” by the Indian Society of Earthquake Technology, Roorkee, India with the permission of the original publisher UNESCO and the authors Anand S. Arya, Teddy Boen, and Yuji Ishiyama. The current publication brought out by ISET on no-profit/no-loss basis is the reprint of the document published by UNESCO in 2014.

Cost of this publication is Rs. 300/-. Interested can obtain a copy from Secretary, ISET, Roorkee by paying Rs. 300 + postage charge extra.

### Attention ISET Members

Please send your email ID (Preferably Gmail) and Mobile/Telephone number to the ISET office in the following format.

Name & Address	Permanent Address	
	Current Address	
Membership No.		
Email ID (preferably Gmail)		
Mobile/Telephone No.		

ISET Office will update the above information in the database, and use the same for future correspondence. Please send the above information at the earliest.

Members may also send any information that they wish to get published in the next Newsletter. Kindly send this information through email to: [office@iset.org.in](mailto:office@iset.org.in)

### Calendar of Forthcoming Events

#### FEBRUARY 20-23, 2023

The 4<sup>th</sup> African Regional Conference on Geosynthetics – GeoAfrica 2023 by the International Geosynthetics Society through the Egyptian chapter (IGSE) is scheduled to be held at Cairo, Egypt.

For more details, please visit: [www.geoafrica2023.org](http://www.geoafrica2023.org), E-mail : [info@geoafrica2023.org](mailto:info@geoafrica2023.org)

#### MARCH 09-11, 2023

The 5th International Underground Excavations Symposium (UYAK 2023) is scheduled to be held at Istanbul.

For more details, please visit: Website: <https://www.uyak.org.tr/>, Email: [maden@maden.imdlv.net](mailto:maden@maden.imdlv.net)

#### MARCH 21-22, 2023

Ninth Indian Young Geotechnical Engineers Conference (9IYGEC) is scheduled to be held at Marathwada Institute of Technology, Aurangabad. For more details, Email: [9iygec@gmail.com](mailto:9iygec@gmail.com)

#### JUNE 25-28, 2023

9th International Congress of Environmental Geotechnics Conference (ICEG) is scheduled to be held at Crete, Greece. For more details, Email: [dzekkos@geoengineer.org](mailto:dzekkos@geoengineer.org)

#### OCTOBER 25-27, 2023

21st Southeast Asian Geotechnical Conference (SEAGC 2023) is scheduled to be held at Bangkok, Thailand.

For more details, please visit: Website: [www.seags.ait.ac.th](http://www.seags.ait.ac.th), Email: [seags@ait.ac.th](mailto:seags@ait.ac.th)

#### NOVEMBER 20-22, 2023

2nd International Conference on Construction Resources for Environmentally Sustainable Technologies (CREST 2023) is scheduled to be held at Fukuoka, Japan. For more details, please visit: Website: [www.ic-crest.com](http://www.ic-crest.com), Email: [info@ic-crest.com](mailto:info@ic-crest.com)

## ISET Membership Corner

The Executive Committee of ISET extends a hearty welcome to the following Members, who have been admitted to the Society during the period November 13, 2021 to November 14, 2022.

### Life Fellows:

- |          |                    |                 |
|----------|--------------------|-----------------|
| 1. LF 61 | Dr. Neelima Satyam | CED, IIT Indore |
| 2. LF 62 | Dr. Pijush Samui,  | CED, NIT Patna  |

### Life Members:

- |             |                                    |                                       |
|-------------|------------------------------------|---------------------------------------|
| 3. LM 1833  | Prof. Subhadeep Banerjee           | CED, IIT Madras                       |
| 4. LM 1834  | Dr. Anant Kiran Kokane             | Walchand College of Eng, Sangli       |
| 5. LM 1835  | Dr. Pradeep Kumar Dammala          | CED, IIT Jodhpur                      |
| 6. LM 1836  | Er. Kiran Kumar Reddy Kaipa        | RS, IIT Ropar                         |
| 7. LM 1837  | Dr. Vijay Kumar                    | CED, MNNIT Allahabad                  |
| 8. LM 1838  | Er. Panna Lal Kurmi                | RS, IIT Ropar                         |
| 9. LM 1839  | Ms. R.B. Malathyprasana            | RS, NIT Raipur                        |
| 10. LM 1840 | Er. Satya Eswara Sanyasi Rao Kolli | RS, NIT Raipur                        |
| 11. LM 1841 | Er. Kantish Vishwanath Chaurpagar  | AVP Design Steelsoft Consulting, Pune |
| 12. LM 1842 | Ms. Bhawna Patel                   | RS, NIT Raipur                        |
| 13. LM 1843 | Dr. Shiv Shankar Kumar             | CED, NIT Patna                        |
| 14. LM 1844 | Dr. Murtaza Hasan                  | Chandigarh Uni. Punjab                |
| 15. LM 1845 | Shivang Shekhar                    | CED, BITS Pilani, Hyderabad           |
| 16. LM 1846 | Dr. Vasudeo Govind Chaudhari       | P.D. Energy Uni., Ghandhinagar        |
| 17. LM 1847 | Dr. Amit Goyal                     | CED, NITTTR, Chandigarh               |
| 18. LM 1848 | Er. Pravin Shivaji Kolhe           | Engineer, WRD, Maharashtra            |
| 19. LM 1849 | Dr. Pijush Samui                   | CED, NIT Patna                        |
| 20. LM 1850 | Dr. Varun Kumar Singla             | EQD, IIT Roorkee                      |
| 21. LM 1851 | Dr. Olympa Baro                    | NIT Silchar                           |
| 22. LM 1852 | Er. Chalavadi Sai Srujan Kumar     | RS, CED, IIT Roorkee                  |
| 23. LM 1853 | Er. Krishna Murari                 | RS, EQD, IIT Roorkee                  |
| 24. LM 1854 | Er. Surathu Teja Venkata Narayana  | SRI SOMA Consulting, Eluru, AP        |
| 25. LM 1855 | Er. Mohd Azam                      | Shanghai Tunnel Eng. Co. Ltd.         |
| 26. LM 1856 | Er. Amit Pore                      | Technipnergies, Mum. Oper. Center     |
| 27. LM 1857 | Dr. Smita Kaloni                   | CED, NIT Uttarakhand                  |
| 28. LM 1858 | Dr. Tarun Naskar                   | CED, IIT Madras                       |
| 29. LM 1859 | Er. J. Prakashvel                  | CSIR-SERC, Chennai                    |

### Annual Members:

- |            |                                 |                                      |
|------------|---------------------------------|--------------------------------------|
| 1. AM 879  | Er. Shounak Mitra               | Hilti India Pvt. Ltd., Kolkata       |
| 2. AM 880  | Er. Nitesh Kushwah              | CED, IES College of Tech., Bhopal    |
| 3. AM 881  | Er. Yogesh Vishwakarma          | CED, IES College of Tech., Bhopal    |
| 4. AM 882  | Ms. Shobhana Singh              | CED, IES College of Tech., Bhopal    |
| 5. AM 883  | Er. Shubham Singh Verma         | CED, IES College of Tech., Bhopal    |
| 6. AM 884  | Er. Vikash Kumar Tiwari         | CED, IES College of Tech., Bhopal    |
| 7. AM 885  | Er. Jitendra Singh Yadav        | CED, IES College of Tech., Bhopal    |
| 8. AM 886  | Er. Dhanesh Khalotia            | CED, IES College of Tech., Bhopal    |
| 9. AM 887  | Er. Vikesh Kumar Mewada         | CED, IES College of Tech., Bhopal    |
| 10. AM 888 | Er. Bhanu Pratap Singh Sikarwar | CED, IES College of Tech., Bhopal    |
| 11. AM 889 | Er. Ayush Shekhar               | SDE, TPC Pvt. Ltd Noida              |
| 12. AM 890 | Er. Arun Kumar Gupta            | Civil Engineer Border Roads Org., WB |

### Student Members:

- |           |                             |                                 |
|-----------|-----------------------------|---------------------------------|
| 1. SM 132 | Er. Satish Kumar Adari      | RS, IIT Jodhpur                 |
| 2. SM 133 | Er. Dharmendra Kushwaha     | RS, Central Uni. Of Haryana     |
| 3. SM 134 | Er. Aarohi Ankit Bhadiyadra | RS, Pandit Dindayal Energy Uni. |
| 4. SM 135 | Ms. Kusum Saini,            | RS, CED, IIT Delhi              |

### Institutional Members:

- |              |  |
|--------------|--|
| 1. IM-134(P) | Head, Dept. of Civil Eng., Sree Rama Eng. College, Tirupathi, A.P.   |
| 2. IM-135(P) | Director, D.Y. Patil Technical Campus, Faculty of Engineering & Faculty of Management, Talsande, Kolhapur, Maharashtra |

## 51<sup>st</sup> Annual General Body Meeting

### Minutes of the 51<sup>st</sup> Annual General Body meeting of the Indian Society of Earthquake Technology held in a hybrid mode on 23<sup>rd</sup> June, 2022 at 6:00 PM.

- 51.0 Prof. T.G. Sitharam, President of ISET, welcomed the members present to the 51<sup>st</sup> Annual General Body Meeting. Prof. Sitharam has highlighted various initiatives taken during the past year.
- 51.1 The members confirmed the minutes of the 50<sup>th</sup> Annual General Body meeting held on April 16, 2021.
- 51.2 Report on the actions taken on the Minutes of the last General Body meeting was presented by Prof. Vishwas A. Sawant, Secretary, and the same was noted by the General Body members.
- 51.3 **Reporting Items:**  
All the reporting items as given in the Annual Report of the Secretary (see item 51.5, **Annexure-II**) were considered.
- 51.4 Considered the Audited Annual Accounts of the Society for the year ending March 31, 2021, as approved by the Executive Committee, and the same was approved by the General Body. A copy of the Audited Annual Accounts is available at <https://iset.org.in/> (**Annexure-I**).  
Further, it was suggested that the fixed assets (schedule -3) can be removed in the next Audited Annual Accounts. In this regard, ISET Office shall be taken advice from the Chartered Accountants.
- 51.5 Considered the Annual Report of the Secretary for ISET activities during the period April 16, 2021 to June 22, 2022, as approved by the Executive Committee, and the same was approved by the General Body. A copy of the Annual Report is available at <https://iset.org.in/> **Annexure-II**.
- 51.6 Considered the conferment of Honorary Fellowships to Prof. S.K. Thakkar (LF 29), Ex-President, ISET & Head, Dept. of Earthquake Engineering and Dr. R.K. Bhandari (LM 486), Chairman, INAE forum on Disaster Management, Former, Director CBRI Roorkee, as recommended by Executive Committee in its meeting held on June 07, 2022. The General Body unanimously confirmed the Honorary Fellowships to Prof. S.K. Thakkar and Dr. R.K. Bhandari.
- 51.7 Considered the amendments to the Bye-Laws Clause IV. 4.2 for increasing the term for Secretary and Members of Executive Committee approved by the Executive Committee in its meeting held online on June 07, 2022, and the same was approved and adopted by the General Body. Approved Clauses is available at <https://iset.org.in/> **Annexure-III**.
- 51.8 The organizing Secretary STASDM-22 briefed about Symposium. On account of celebrating 60 glorious years of the Indian Society of Earthquake Technology (SET), the Centre for Disaster Management and Research (CDMR), IIT Guwahati, North Eastern Space Application Centre (NESAC), Assam State Disaster Management Authority (ASDMA), Department of Earthquake Engineering IIT Roorkee and ISET jointly were organized a two-day symposium “Socio-Technological Aspects of Seismic Disaster and Mitigation (STASDM)” on 23 and 24 June 2022 at IIT Guwahati. Prof. T.G. Sitharam, Director IIT Guwahati, who is also the President of ISET was the Patron of the symposium. There were plenary talks, followed by invited talks in the domain of Seismic Disaster and Mitigation by various stalwarts across the country. Talks were delivered both in online and offline mode. Various important themes such as Seismic hazard, Soil Structure interaction, seismic analysis of structures, paleoseismology, Society, Gender, and Earthquakes etc. were the prime focus of the above symposium. Students, faculty, and field engineers from different parts of North East, and other parts of the Country participated and presented their research findings. Assam is severely affected by floods at present and is very prone to earthquake shaking in general. There was a panel discussion where experts from institutes such as ASDMA, NESAC, as well as various industries participated as discussants to discuss how to deal with seismic disasters and mitigation and further direction in policy making.
- 51.9 **Any other items:**
- Members suggested to increase number of local chapters and their activities.
  - The members suggested that the letter will be sent to the dormant Chapters to elect a new Managing Committee and three months of time would be given for completing this process. If no response is received from the Chapters, President is authorized to dissolve the Managing Committee and a request can be sent to the members of the chapter to elect a new managing committee.
  - Prof. M.L. Sharma, Ex-President has suggested increasing the limit of honorary fellows. The issue can be discussed in the forthcoming EC meeting.
  - Members discussed about improving the ISET website. The possibility of accessing certificates online with individual user ID was discussed.
  - Discussed the issue related to ISET activities during 17SEE-2022. It was also resolved that the second or third day of the Symposium during November 14-17, 2022 can be reserved for the Awards Ceremony, Annual Lecture, and Annual General Meeting of ISET.



- The travel expenses can be given from 17SEE to the persons receiving the award.

The Society put on the record thanks and appreciation for IIT Guwahati for making all the arrangements and efforts for organizing the 202<sup>nd</sup> E.C. meeting, 42<sup>nd</sup> Annual Lecture, and 51<sup>st</sup> Annual General Meeting. Particularly we are thankful to Dr. Sudip Mitra, Conference Chair (STASDM 2022), Center for Disaster Management and Research (CDMR) and Dr. Abhishek Kumar & Dr. Kaustubh Dasgupta, Organizing Secretaries (STASDM 2022), Department of Civil Engineering and other authorities of IIT Guwahati.

The meeting ended with a vote of thanks to the Chair.



(Prof. T.G. Sitharam)  
President, ISET



(Prof. Vishwas A. Sawant)  
Secretary, ISET

### 52<sup>nd</sup> Annual General Body Meeting

**Minutes of the 52<sup>nd</sup> Annual General Body meeting of the Indian Society of Earthquake Technology held in a hybrid mode on 15<sup>th</sup> November 2022 at 6:15 PM.**

- 52.0 Prof. T.G. Sitharam, President of ISET, welcomed online the members present to the 52<sup>nd</sup> Annual General Body Meeting, afterward, President requested Prof. B.K. Maheshwari to chair the meeting. Prof. Maheshwari welcomed the members and requested the Secretary to take up the agenda items.
- 52.1 The members confirmed the minutes of the 51<sup>st</sup> Annual General Body meeting held on June 23, 2022.
- 52.2 Report on the actions taken on the Minutes of the last General Body meeting was presented by Prof. Vishwas A. Sawant, Secretary, and the same was noted by the General Body members.
- 52.3 **Reporting Items:**  
All the reporting items as given in the Annual Report of the Secretary (see item 52.5, **Annexure-II**) were considered.
- 52.4 Considered the Audited Annual Accounts of the Society for the year ending March 31, 2022, as approved by the Executive Committee, and the same was approved by the General Body. A copy of the Audited Annual Accounts is available at <https://iset.org.in/> (**Annexure-I**).
- 52.5 Considered the Annual Report of the Secretary for ISET activities during the period from June 23, 2022 to November 14, 2022, as approved by the Executive Committee, and the same was approved by the General Body. A copy of the Annual Report is available at <https://iset.org.in/> (**Annexure-II**).
- 52.6 The 17<sup>th</sup> Symposium on Earthquake Engineering (17SEE) was organized by the Society jointly with the Department of Earthquake Engineering during November 14-17, 2022 at Roorkee. In this Symposium 300 plus delegates representing several Government/Semi-Government Organizations/Institutions, International Universities, Regional Engineering Colleges, Private Organizations, NGOs, and other individual experts concerned participated and shared their work and thoughts. In total 251 papers were accepted for the Conference and 230 presentations took place in 47 technical sessions, which included 35 keynote lectures. The Proceedings of this Symposium are being published through Springer.
- 52.7 **Any other items:**
- It was deliberated in the meeting that donors floating the award in any category should be updated with award status & relevant information.
  - The members suggested that the Local Chapters should be encouraged to organize various activities. Also, they are requested to hold elections for the office bearers on time and send the information to the ISET headquarter. Letters/emails may be sent to each chapter office bearer in this regard.

The meeting ended with a vote of thanks to the Chair.



(Prof. T.G. Sitharam)  
President, ISET



(Prof. Vishwas A. Sawant)  
Secretary, ISET