



Indian Society of Earthquake Science

(Registered under Societies Act of 1860)

Email : ises2009@gmail.com Web : www.ises.in

ISSN 2320 - 6217

Institute of Seismological Research (ISR) has been awarded the 2013 - 2014 National e-Governance Gold trophy for "Outstanding e-Governance initiatives by Academic and Research Institutions" during the 17th National Conference on e-Governance held at Kochi, Kerala during 30th - 31st January 2014. The national e-Governance award has been conferred jointly by two Departments; Department of Administrative Reforms & Public Grievances and Department of Electronics & Information Technology, Govt. of India.

The award is for the project "Effective Seismological Monitoring through e-Governance to save Lives and Damage due to Earthquakes". Dr. B. K. Rastogi, Director General, ISR, Neeta Shah, Director, GIL and Shri K. M. Rao, Sci. D, ISR were present in the award ceremony. The other awarded team members are Shri Santosh Kumar Sundriyal, Sci. D, Shri Jignesh Patel, T.O. and Shri Ganpat Parmar, T.O., ISR.



From the President's Desk

I would like to thank all the delegates, sponsors and organisers of AES - 2014 and workshop on Seismic Microzonation for making the event successful. The active participation from scientists/Professors/research scholars of different age groups including Indian and Foreign delegates is very heartening. I would also like to invite all the participants of convention to submit their full papers for the ISES e-journal and selected articles will be published in the special issue of ISES e-journal.



NEWS / EVENTS

- ◆ ISES-ISR lecture "Seismic Hazard Assessment in Europe" by Prof. Freidemann Wenzel, Director, Karlsruhe Institute of Technology (KIT), CEDIM, Germany was held at ISR, on 26th February 2014.
- ◆ ISES Lecture "Lessons From Great Earthquakes" by Dr. Walter D. Mooney, Geoscientist, USGS, USA, was held at ISR, on 6th January 2014.
- ◆ ISES will raise its life membership fee to Rs. 5000 from April 2014. Interested candidates may avail old rate of Rs 1000 until March 2014.

Inside this issue:

ISR awarded Gold trophy for Outstanding e-Governance initiatives	1
From the President's Desk	1
AES - 2014 convention and Workshop on Seismic Microzonation	2, 3 and 4
Miscellaneous News	4
ISES at a Glance	4

3rd Annual Convention on “Advances in Earthquake Science” AES - 2014 and Workshop on “Seismic Microzonation”

Institute of Seismological Research (ISR), Gujarat State Disaster Management Authority (GSDMA), Gujarat Institute of Disaster Management (GIDM), and Indian Society of Earthquake Science (ISES) organized the 3rd International Convention on “Advances in Earthquake Science (AES-2014)” and Workshop on “Seismic Microzonation” during January 4-6, 2016 at Institute of Seismological Research (ISR), Raisan, Gandhinagar. The inaugural function and plenary session were held at GIDM, Gandhinagar in the forenoon of 04th January 2014. Rest of the program was at ISR. The Chief Guest of the event, Shrimati Anandiben Patel, Revenue Minister, Government of Gujarat was welcomed by Shri S. J. Haider, Secretary, Department of Science and Technology, Government of Gujarat and inaugurated the convention. Dr. P. K. Mishra, Director General, GIDM and Dr. B. K. Rastogi, Director General, ISR welcomed the delegates and guests. Honb'le Member NDMA, Prof. Harsh Gupta spoke about the activities of NDMA. Dr. Ranjit Bannerji, Principal Secretary and CEO, GSDMA and Mr. T. P. Singh were also seated on dais. Also, ISES and ISR honoured Dr. Hari Narain, Former Director of NGRI, Hyderabad (posthumously) and Prof R. K. Verma for their yeoman service in the field of earth science.



During the Plenary Session Dr. Walter Mooney, Geoscientist, USGS described the effects of recent damaging earthquake of the World and emphasized the idea that large earthquakes occur along the margins of intraplate Blocks. Prof. Antonella Peresan from Trieste University, Italy spoke about the advantage of neo-deterministic hazard assessment method (NDSHA). Prof. Harsh Gupta spoke about the seismic hazard in India, Dr. P. K. Mishra gave the details of rehabilitation program after the 2001 Bhuj earthquake, and Prof. B. K. Rastogi described the macro to micro level seismic hazard assessment done at ISR. Different themes of the convention were 1. Earthquake Precursors and Prediction Studies, 2. Lithospheric Structure, 3. Seismic Hazard Assessment and Engineering Seismology, 4. Neotectonics: Tectonic geomorphology, Paleoseismology, Seismotectonics, and 5. Real - time Seismology and Seismicity Studies.

The Seismic Microzonation workshop was to discuss on Standardization of Seismic Microzonation practices and to define ways of using the results. In the workshop 16 invited senior scientists, professors, and experts in the field of Microzonation presented their work in three different sessions. The sessions were on Seismic Hazard Assessment, Experiences from Microzonation Studies in India, and Methodologies on Seismic Microzonation and Implication for Policy. Moreover, panel discussion was held after each Microzonation session. The panel discussion was headed by team of five/six panel members comprising distinguished scientists/professors/directors of different institutes.

The participants of the Convention and Workshop were from different parts of the country and foreign delegates were from USA, Italy, Germany and United Kingdom. Indian delegates were from Uttarakhand in the northwest; Delhi and UP in the north; Assam in the northeast, West Bengal and Jharkhand in the east, Andhra Pradesh, Karnataka and Tamilnadu in the south and Maharashtra as well as Gujarat in the west. Five foreign and about 150 Indian delegates participated with 65% of young delegates. Foreign delegates includes 1. Prof. Walter D. Mooney, USGS, USA, 2. Prof. Antonella Peresan, University of Trieste, Italy, 3. Prof. Shamita Das, University of Oxford, UK 4. Dr. Chandra Shekhar Pandey, Ruhr University Bochum, Germany, and 5. Dr. K M Bhatt, GFZ German Research Centre for Geosciences, Germany.

Some 60 oral and 40 poster papers were presented by the delegates in the convention. Lectures were at three levels. Sr. Scientists delivered Key Note Lectures reviewing status of different themes. Experienced scientists presented cutting edge state of the art results, while young scientists presented new research. Open discussion and sharing of ideas/views amongst each other had made the panel sessions of Microzonation workshop interesting and demonstrated the importance of the Seismic Microzonation at national level.

In the AES - 2014 convention, parallel sessions had to be arranged due to overwhelming response and most of the ISR papers were put in poster sessions. Also, top 4 oral and 3 poster presentations by young scientists (below the age of 40) were awarded with certificates. Dr. B. K. Rastogi, President, ISES also invited full papers from the delegates for ISES e-journal and selected articles will be published in the special issue of ISES e-journal.

Following are the names and abstract title of the awardees of oral and poster presentations:

Awardees of Oral Presentations

- (1) **Devajit Hazarika** (WIHG, Dehradun), Seismic characteristics of crust and upper mantle beneath Eastern Ladakh: constraints from receiver function analysis. **(First Prize)**
- (2) **Sangeeta Sharma** (NEIST, Jorhat), Morphotectonic analysis of selected drainage basins from Belt of Schuppen. **(First Prize)**
- (3) **Chandra Shekhar Pandey** (Ruhr University Bochum, Germany), Resonant ultrasound spectroscopy: A method to analyze seismic data and to understand earth structure. **(Second Prize)**
- (4) **Jyotima Kanaujia**, Ashwani Kumar, S. C. Gupta (IIT Roorkee), Vp/Vs value and Poisson's ratio of the parts of Garhwal Himalaya. **(Second Prize)**

Continued in Page 4

PATRONS:

Dr. Shailesh Nayak, Secretary, MoES, GOI, New Delhi
Shri S. J. Haider, Secretary, DST, Govt. of Gujarat

Executive committee members:

Dr. B. K. Rastogi, President
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Prof. R D Shah, Council member
Shri Santosh Kumar, Council member
Dr. Pallabee Choudhury, Council member
Dr. A. P. Singh, Council member

ISES at a Glance

- ◆ *ISES will raise its life membership fee to Rs. 5000 from April 2014. Interested candidates may avail old rate of Rs 1000 until March 2014.*
- ◆ *ISES invites research articles for its open e-Journal, Journal of Earthquake Science (JOES) .*
- ◆ *ISES also invites short articles for the next issue of its newsletter "Bhoo-Kampan".*
- ◆ *ISES also invites news items, information and other related material for newsletter.*

**Indian Society of
Earthquake Science**

Bhoo-Kampan

**Indian Society of Earthquake
Science (ISES), www.ises.in**

Room No. 103
 c/o Institute of Seismological Research,
 Nr. Pt. Deendayal Petroleum University
 Raisan, Gandhinagar-382009,
 Gujarat.

Editor: Jyoti Sharma

jyotisharmaitk@gmail.com

Awardees of Poster Presentations

- (1) **Girish Chandra Kothyari** (ISR Gandhinagar), Active Faults and related Quaternary Deformation in Kachchh, Western Peninsular India. **(First Prize)**
- (2) **A.P. Singh** (ISR Gandhinagar), Crack attributes beneath the 2011 Talala, Saurashtra Earthquake, Gujarat, India and its implications for Monsoon induced Micro to Moderate earthquake Sequence. **(First Prize)**
- (3) **Ananna Bardhan** (Manav Rachna College of Engineering, Faridabad), O⁺ ion density variation during seismic activity as measured by SROSS-C2 satellite. **(Second Prize)**

Besides all these activities during the AES - 2014 convention and Seismic Microzonation workshop, ISES has also organised the ISES Lecture by Dr. Walter Mooney, Geoscientist, USGS, USA entitled "**Lessons From Great Earthquakes**" on 06th January 2014 at ISR. In his lecture, Dr. Walter Mooney described destructions from the large earthquakes globally and causes behind the destructions. Lecture has been well praised and attended by large number of audience.

**Miscellaneous News**

Prof. Freidemann Wenzel, Director, Karlsruhe Institute of Technology (KIT), Center for Disaster Management and Risk Reduction Technology (CEDIM), Germany delivered the ISES - ISR lecture on "**Seismic Hazard Assessment in Europe**" on 26th February 2014. Also, on 28th February 2014, the National Science Day, he has delivered the lecture on "**Trends in Global Earthquake Losses**". Both the lectures were held at ISR.

