



## Indian Society of Earthquake Science

(Registered under Societies Act of 1860)

Email : [ises2009@gmail.com](mailto:ises2009@gmail.com) Web : [www.ises.in](http://www.ises.in)

ISSN 2320 - 6217

### The 3rd Annual Convention

#### "Advances in Earthquake Science - The Future challenges"

Institute of Seismological Research (ISR), and Indian Society of Earthquake Science (ISES), Gandhinagar, Gujarat are jointly organizing the 3rd Annual Convention "Advances in Earthquake Science - The Future challenges". The convention will be held during 4 – 6 January 2014 at Institute of Seismological Research, Raisan, Gandhinagar, Gujarat, India. The special theme of the convention is "Seismic Microzonation and Hazard Assessment". The other themes of the convention are *Earthquake Precursors and Prediction Studies, Real Time Seismology and Seismic Studies, Lithospheric Structure, Engineering Seismology and Neotectonics: Tectonic Geomorphology, Paleoseismology, Seismotectonics*.

All Research Scholars, Scientists and Faculty of various organizations and universities are invited to participate in the convention. The interested researchers are requested to send the abstract on or before 25 December 2013 at [eqsc.2014@gmail.com](mailto:eqsc.2014@gmail.com). The abstract should be within one A4 page in MS Word format, Times New Roman, font 12, line spacing 1.5. The title of the abstract should be in Times New Roman, font 14, bold, centered aligned followed by authors' names, affiliations, and email of corresponding author. Figures, if necessary, should be accommodated on the same page.

#### Registration fees:

Delegates	Rs. 5000
ISES Life Members	Rs. 4000
Research Scholars	Rs. 1000
Foreign Delegates	US\$ 100

Registration fees will include Conference material and tea/coffee

ISR guesthouse/hostel accommodation will be arranged on request

### From the President's Desk

During 3rd Annual Convention "Advances in Earthquake Science - The Future challenges" two best Oral and Poster presentations will be awarded to young scientists/researchers of age within 40 years.

Contact details of the ISES Life-Members are provided in page nos. 3, 4, 5 and 6. All are requested to check their contact details. In case of any changes or modifications, please contact us at our email [ises2009@gmail.com](mailto:ises2009@gmail.com).

#### Invited Speakers for 3rd annual convention "Advances in Earthquake Science – The future Challenges"

**Prof. Shamita Das**, Department of Earth Sciences, University of Oxford, United Kingdom.

**Prof. Antonella Peresan**, Department of Geosciences, DiGe - University of Trieste, Italy.

**Prof. Walter Mooney**, United States Geological Survey (USGS).

## NEWS / EVENTS

- ◆ ISES-ISR distinguished lecture "Energy Security in India – A way forward" by Prof. T. Harinarayana, Director, GERMI was held at Institute of Seismological Research (ISR), Gandhinagar on 8<sup>th</sup> August 2013.
- ◆ ISES e - journal "Journal of Earthquake Science (JOES)" will publish its first volume in January 2014.
- ◆ Indian Society of Earthquake Science (ISES) calls research articles for its open e - journal "Journal of Earthquake Science (JOES)"
- ◆ A total of 159 members are on roll of ISES.

### Inside this issue:

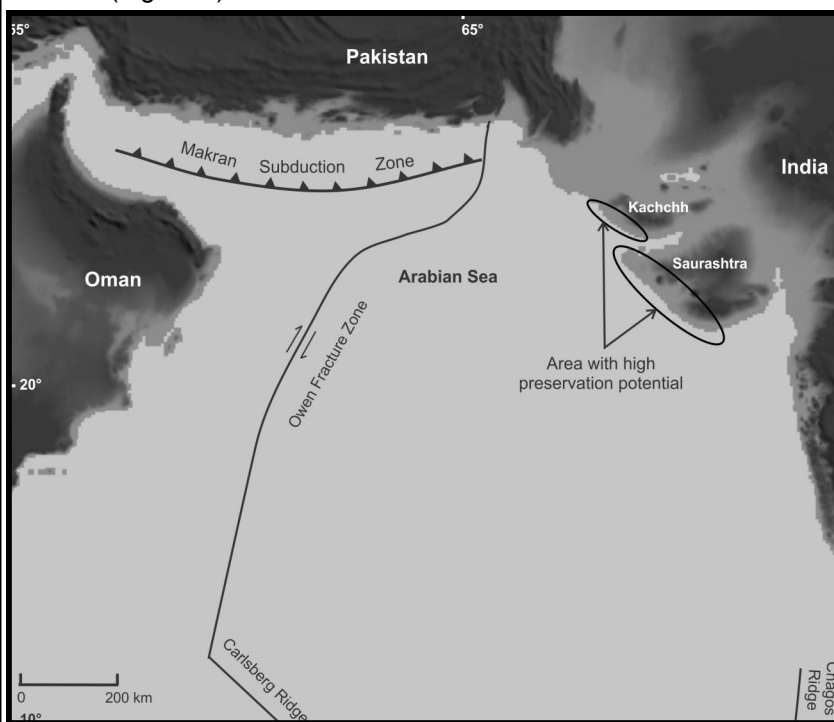
ISR and ISES Convention AES-2014	1
From the President's Desk	1
Initialization of Palaeotsunami studies	2 and 5
ISES Life Members list	3, 4, 5 and 6
ISES at a Glance	6

## Need for initializing Palaeotsunami studies from Gujarat Coast, Western India

S. P. Prizomwala, Drasti Gandhi, Tarun Solanki and Dipika Ahirrao, Institute of Seismological Research, Gandhinagar, Gujarat.

Tsunami is one of the most destructive natural disasters known to mankind. The 2004 Indian Ocean Tsunami was one of the most devastating natural marine disasters in recent times as it claimed more than 225,000 lives. It had highlighted the significance of tsunami hazard assessments and mitigation for coastal areas. Post 2004 the eastern coast of India has been studied intensely for unraveling the palaeotsunami deposits, whereas understanding of such past high energy events along western coast is still in its infancy.

The northern Arabian Sea hosts several tsunamigenic sources ranging from active subduction zones to sites of mega submarine landslides (Figure 1). Several studies have investigated that Seismic activity along the Makran Subduction Zone, Owen Fracture Zone, and Carlsberg Ridge are capable of generating tsunami in the Arabian Sea and generating devastating waves that can hit the Indian Coast in short duration (Rastogi and Jaiswal, 2006). Although it is well known that submarine landslides are also potential source of tsunami, however this hazard has been under-rated in the Arabian Sea region. Recently voluminous submarine landslides activity along Southern Owen Ridge has been identified (Rodriguez et al., 2012), which can be a likely hazard for the Gujarat coast. Additionally the geomorphic setup of Gujarat coast shows presence of landform assemblages which acts as 'sedimentary sink' and have stronger preservation potential for archiving such high energy marine events (i.e. back swamps, beach ridge complex, mudflats in sheltered environments) (Prizomwala *et al.*, 2010). The geographic position of southwest coast of Kachchh and western, southern and southwestern coast of Saurashtra enables it to be areas of higher potential for archiving palaeotsunami deposits as these coastlines are facing the tsunamigenic sources (Figure 1).



**Figure 1.** Tectonic framework of northern Arabian Sea and proposed area along Gujarat coast for future palaeotsunami studies with high preservation potential.

### References:

- Ambraseys, N. N., and C. P. Melville,** (1982). A History of Persian Earthquakes, Cambridge University Press, New York, 219 pages.  
**Bendick, R. and R. Bilham,** (1999). A Search for Buckling of the SW Indian Coast related to Himalayan Collision, in Macfarlane, A., Sorkhabi, R. B., and Quade, J., eds., Himalaya and Tibet: Mountain Roots to Mountain Tops: Geol Soc Amer. Special paper 328. 313-322.  
**Murty, T. S., A. Bapat and V. Prasad,** (1999). Tsunamis on the coastlines of India, Sci. of Tsunami Hazards, 17(3), 167-172.

There are several historical records that show that the west coast of India and surrounding areas have been affected by numerous and disastrous tsunami in the historical past (Table 1; Source: Rastogi and Jaiswal, 2006). The most recent one being the 1945 Makran tsunami, which claimed about 4000 lives (Ambraseys and Melville, 1982). It is believed that two tsunami waves were generated, first one due to an earthquake and second one due to a landslide that was triggered by the earthquake. The second wave was more devastating than the first wave. The wave height was 2 m at Mumbai and about 11 m at Kandla (Pararas - Carayannis, 2006). However this claim is disputed by some. Geological signatures of this event have been reported from Sur lagoon, Oman. However owing to its proximity and reported wave heights along Kachchh coast, it should also have been archived, but is still unreported. Hence there is a vital need for documentation of palaeotsunami deposits from Gujarat coast as it helps in ascertaining the vulnerability of tsunami as a hazard for the particular segment of the coastline. **Continued in Page 5**

SNo.	Name and Contact Details	Membership No.
1.	Dr. B.K. Rastogi, ISR, Gandhinagar (brastogi@yahoo.com, Ph:09978407515)	MISES-01
2.	Dr. Sumer Chopra, MoES, New Delhi (sumer.chopra@gmail.com, Ph:09910414038)	MISES-02
3.	Dr. R.B.S. Yadav, Kurukshetra University, Kurukshetra (rbsybhu@rediffmail.com)	MISES-03
4.	Dr. Babita Sharma, MoES, New Delhi (babita_s@rediffmail.com, Ph:09582018842)	MISES-04
5.	Sh. Rajesh Kishore, Gandhinagar (secfcs@gujarat.gov.in)	MISES-05
6.	Prof. A. K.Singhvi, PRL, Ahmedabad (singhvi@prl.ernet.in)	MISES-06
7.	Dr. T. J.Majumdar, SAC, Ahmedabad (tjmajumdar@sac.isro.gov.in)	MISES-07
8.	Prof.R. D.Shah, M.G.Science Institute, Ahmedabad (rdshahmg@yahoo.com)	MISES-08
9.	Sh. T. P.Singh BISAG, Gandhinagar (info@bisag.gujarat.gov.in)	MISES-09
10.	Dr. Natwar Sharma, Gandhinagar (nsharma_msu@rediffmail.com)	MISES-10
11.	Sh. A. P. Singh, ISR, Gandhinagar (apsingh07@gmail.com, Ph:09099034461)	MISES-11
12.	Prof. S. S. Teotia, Kurukshetra University, Kurukshetra (teotia_ss@rediffmail.com)	MISES-12
13.	Dr. Dinesh Kumar, Kurukshetra University, Kurukshetra (dineshk5@rediffmail.com)	MISES-13
14.	Dr. Devesh Walia, North Eastern Hill University, Shillong (deveshwa@gmail.com)	MISES-14
15.	Prof.Arun K.Saraf, IIT, Roorkee (arun.k.saraf@gmail.com)	MISES-15
16.	Dr. Ramancharla Pradeep Kumar, IIIT, Hyderabad (ramancharla@iiit.ac.in)	MISES-16
17.	Dr. Debasis Ghose, Variable Energy, Cyclone Kolkata (d_ghosh43@yahoo.co.in)	MISES-17
18.	Dr. Rajpal Singh, Institute of Technology and Management, Mathura (rpsingh_ashu@yahoo.co.in)	MISES-18
19.	Dr.Vinod Kumar Khushwah, Hindustan Coll. of Sci. and Tech., Mathura (kushwahvk2000@gmail.com)	MISES-19
20.	Prof. Onkar Dixit, IIT, Kanpur (onkar@iitk.ac.in)	MISES-20
21.	Maj. Gen.(Dr.) B.Nagarajan, Survey of India, Hyderabad (ngoid@yahoo.com)	MISES-21
22.	Dr. Arun Kumar Gupta, MoES, New Delhi (akg_mgs@yahoo.com, Ph:0915892663)	MISES-22
23.	Sh. Sidharth Dimri, ISR, Gandhinagar (sdimri2002@gmail.com)	MISES-23
24.	Dr. Pallabee Choudhury, ISR, Gandhinagar (pallabee.ch@gmail.com)	MISES-24
25.	Dr. Sridevi Jade, CSIR-CMMACS, Bangalore (sridevi@cmmacs.ernet.in)	MISES-25
26.	Sh. F. Kaneko, Oyo International, Japan (kaneko@oyointer.com)	MISES-26
27.	Dr. Dipankar Sarkar, CSIR-NGRI, Hyderabad (dipankars@rediffmail.com)	MISES-27
28.	Dr. Devender Kumar, CSIR-NGRI, Hyderabad (devCSIR-NGRI@gmail.com)	MISES-28
29.	Dr. M.Ravi Kumar, CSIR-NGRI, Hyderabad (mravi@CSIR-NGRI.res.in)	MISES-29
30.	Dr. D. S. Ramesh CSIR-NGRI, Hyderabad (dsramesh1@rediffmail.com)	MISES-30
31.	Dr. K. Suryaprakasam, CSIR-NGRI, Hyderabad (ksprakasam@CSIR-NGRI.res.in)	MISES-31
32.	Dr. Abhay Ram Bansal, CSIR-NGRI, Hyderabad (abhey.bansal@gmail.com)	MISES-32
33.	Prof. Rajul K.Gajja L. D. Engineering College, Ahmedabad (rkgajjar@yahoo.com)	MISES-33
34.	Prof. Chaitanya J.Patel, L. D. Engineering College, Ahmedabad (chaitanya.patel52@yahoo.com)	MISES-34
35.	Prof. H.S.Patel, L.D.Engineering College, Ahmedabad (dr.hspatel@yahoo.com)	MISES-35
36.	Prof. Bharat J.Shah, L.D.Engineering College, Ahmedabad (bjshah.ldce@gmail.com)	MISES-36
37.	Prof. M. H. Rangwala, L.D.Engineering College, Ahmedabad (mhrangwala52@rediffmail.com)	MISES-37
38.	Prof. C. S. Sanghvi, L.D.Engineering College, Ahmedabad (cssanghvi@rediffmail.com)	MISES-38
39.	Dr. Paresh Patel, Nirma University, Ahmedabad (parpat1@yahoo.com)	MISES-39
40.	Dr. Sonal P.Thakkar, Nirma University, Ahmedabad (sonal.thakkar@nirmauni.ac.in)	MISES-40
41.	Prof. J. R. Kayal, Jadavpur University, Kolkata (jr_kayal@hotmail.com, Ph:+91 9830675424)	MISES-41
42.	Dr. Tao Ming Chang, NCRE, Taiwan (tmchang@ncre.org.tw)	MISES-42
43.	Sh. M.S.B.S.Prasad, ISR, Gandhinagar (msbsprasad@yahoo.co.in)	MISES-43
44.	Sh. K. M. Rao, ISR, Gandhinagar (madhuspl@yahoo.com, Ph:09978406331)	MISES-44
45.	Sh. Santosh Kumar, ISR, Gandhinagar (sundriyal007@gmail.com, Ph:09925243646)	MISES-45
46.	Sh. B. Sairam, ISR, Gandhinagar (sairambharat@rediffmail.com)	MISES-46
47.	Dr. Kapil Mohan, ISR, Gandhinagar (kapil_geo@yahoo.co.in, Ph: 09099034451)	MISES-47
48.	Sh. Sandeep Aggarwal, ISR, Gandhinagar (sandeep12480@yahoo.co.in)	MISES-48

SNo.	Name and Contact Details	Membership No.
49.	Prof. Harsh K. Gupta, CSIR-NGRI, Hyderabad (harshg123@gmail.com)	MISES-49
50.	Dr. V.P. Dimri, CSIR-NGRI, Gandhinagar (dimrivp@rediffmail.com)	MISES-50
51.	Dr. Saurabh Baruah, CSIR-NEIST, Jorhat (saurabhb_23@yahoo.com)	MISES-51
52.	Prof. Bishal Nath Upreti, Tribhuvan University, Nepal (bnupreti@wlink.com.np)	MISES-52
53.	Dr. R. K. Chadha, CSIR-NGRI, Hyderabad (chadha@CSIR-NGRI.res.in)	MISES-53
54.	Dr. G. Parthasarathy, CSIR-NGRI, Hyderabad (gpCSIR-NGRI@rediffmail.com)	MISES-54
55.	Dr. O. P.Pandey, CSIR-NGRI, Hyderabad (om_pandey@rediffmail.com)	MISES-55
56.	Dr. Ravi Kumar Srivastava, CSIR-NGRI, Hyderabad (ravi_prakash@CSIR-NGRI.res.in)	MISES-56
57.	Dr. Baldev Raj Arora, UCOST, Dehradun (arorabr@wihg.res.in)	MISES-57
58.	Dr. T. Seshunarayana, CSIR-NGRI, Hyderabad (tanseshu@CSIR-NGRI.res.in)	MISES-58
59.	Sh. Vikram M.Patel, B.S.Patel Polytechnic, Mehsana (vmpatel001@yahoo.com)	MISES-59
60.	Dr. O.P. Singh, RBS College Agra, (opsasd@gmail.com)	MISES-60
61.	Dr. Ram S. Sharma, University of Rajasthan, Jaipur (sharma.r.sh@gmail.com)	MISES-61
62.	Dr. D. Gopala Rao, Hyderabad (drgopalarao@yahoo.com)	MISES-62
63.	Dr. Arun Bapat, Pune (arun_bapat@vsnl.com)	MISES-63
64.	Dr. Buddha Ramalingeswara Rao, CSIR-NGRI, Hyderabad (brrao_buddha@yahoo.com)	MISES-64
65.	Dr. Paresh Nath Singha Roy, ISM, Dhanbad (pnsmay1@gmail.com)	MISES-65
66.	Dr. M.P.S. Bisht, HNB Garhwal University, Srinagar (mpbisht@gmail.com)	MISES-66
67.	Dr. Prantik Mandal, CSIR-NGRI, Hyderabad (prantik@CSIR-NGRI.res.in)	MISES-67
68.	Dr. Ajay Manglik, CSIR-NGRI, Hyderabad (ajay@CSIR-NGRI.res.in)	MISES-68
69.	Dr. Anand Joshi, IIT, Roorkee (anushijos@yahoo.co.in)	MISES-69
70.	Dr.S.P.Sati, HNB Garhwal University, Srinagar (spsatihnbgu@gmail.com)	MISES-70
71.	Dr. S N Bhattacharya, New Delhi (sn_bhattacharya@hotmail.com)	MISES-71
72.	Sh. Mukesh A.Patel, Gandhinagar (map_technical@yahoo.co.in)	MISES-72
73.	Sh. Gautam Kumar Chakraborty, GSI, Kolkata (g.chakraborty@rediffmail.com)	MISES-73
74.	Dr. Daya Shankar, IIT, Roorkee (dayafeq@iitr.ernet.in)	MISES-74
75.	Dr. Sushil Kumar, WIHG, Dehradun (sushilk@wihg.res.in)	MISES-75
76.	Sh.Om Bihari Srivastava, Gandhinagar (ombahari@yahoo.com)	MISES-76
77.	Dr. B. Rajendra Prasad, CSIR-NGRI, Hyderabad (rajendrab@CSIR-NGRI.res.in)	MISES-77
78.	Dr. Prabir C. Basu, AERB, Mumbai (pcbasa@gmail.com)	MISES-78
79.	Sh .A D Roshan, AERB, Mumbai (adrosan@aerb.gov.in)	MISES-79
80.	Dr. Javed Malik, IIT, Kanpur (javed@iitk.ac.in)	MISES-80
81.	Prof. K. S. Valdiya, Jaharlal Nehru Centre for Advanced Research, Bengaluru (ksvaldiya@gmail.com)	MISES-81
82.	Dr. Vivek Walia, Taiwan (vivekwalia@rediffmail.com)	MISES-82
83.	Dr. T.Harinarayana, GERMI, Hyderabad (thari54@yahoo.com)	MISES-83
84.	Dr. R Duarah, NEIST, Jorhat (rduarah@hotmail.com)	MISES-84
85.	Dr. Hirok Chaudhary, Geochemical Monitoring, Kolkata (chaudhuri_hirok@yahoo.co.in, 9830076271)	MISES-85
86.	Dr. Mita Rajaram, IIG, Mumbai (mitarajaram@yahoo.com)	MISES-86
87.	Dr. Chandra Bhakuni, Quake School Consulting PVT. LTD, Ahmedabad (chandra@quakeschool.org)	MISES-87
88.	Sh. Sambit Pnasangit Naik, IIT, Kanpur (sambitnaik@gmail.com)	MISES-88
89.	Sh. Rajesh Kumar Mishra, BARC, Mumbai (mishra11@gmail.com)	MISES-89
90.	Dr. Dilip K R. Yadav, WIHG, Dehradun (dilipky@yahoo.com)	MISES-90.
91.	Dr. K. M. Sreejith, SAC, Ahmadabad (sreejith81@gmail.com)	MISES-91.
92.	Dr. Bhuvan Vikrama, Archaeological Survey of India, Agra	MISES-92.
93.	Dr. Biju John, NIRM, Karnataka (bhushri007@gmail.com)	MISES-93.
94.	Sh. D.T.Rao, NIRM, Karnataka (d.turangarao@yahoo.com)	MISES-94.
95.	Dr. Satuluri Sravanthi, IIT, Kanpur (sravanthi.stlri@gmail.com)	MISES-95.
96.	Dr. Lalliana Mualchin, U.S.A (mualchin@hotmail.com)	MISES-96.

**Table 1: List of major Tsunami events as per historical records in the northern Arabian Sea**

Year	Location	Comment	Reference
326 BC	Indus Delta	Alexander's navy destroyed, massive waves in Arabian Sea	Murty and Bapat, 1999
1008 AD	Strait of Hormoz	Tsunami waves have been observed on Iranian coast	Ambraseys and Melville, 1982
1524 AD	Off the coast of Dabhol, Maharashtra, India	Tsunami caused alarm in Portugese fleet assembled in the area	Bendick and Bilham, 1999
1618 AD	Offshore of Mumbai	Town of Samwani sunk due to large earthquake with 30,000 houses	Rastogi and Jaiswal, 2006
1819 AD	Rann of Kachchh	Town of Sindri and adjoining area was inundated by a tremendous rush of wave from ocean	Rastogi and Jaiswal, 2006
1845 AD	Kori creek	The sea water rolled up the Kori creek far landward.	Rastogi and Jaiswal, 2006
1945 AD	Pasni, Offshore Pakistani coast	More than 400 people lost their lives on Makran coast and about 15 in Mumbai	Ambraseys and Melville, 1982

**Pararas-Carayannis G.** (2006). The potential of tsunami generation along the Makran subduction zone in the Northern Arabian Sea case study: the earthquake and tsunami of November 28, 1945, (paper presented at 3rd tsunami symposium of the tsunami society, East-West Center, University of Hawaii, Honolulu, Hawaii) May 23–25, 2006.

**Prizomwala S.P., S.B. Shukla, and N. Bhatt** (2010). Geomorphic assemblage of the Gulf of Kachchh coast, Western India: Implication in understanding the pathways of coastal sediments. *Zeitschrift fur Geomorphologie* 54 (1), 31-46.

**Rodriguez, M., M. Fournier, N. Chamot-Rooke, P. Huchon, S. Zaragosi, and A. Rabaute**, (2012). Mass wasting processes along the Owen Ridge (NW Indian Ocean), *Mar. Geol.*, 326–328, 80–100.

**Rastogi, B.K. and R.K. Jaiswal**, (2006). A catalog of tsunamis in the Indian Ocean, *Sci. of Tsunami Hazards.*, 25(3), 128-143.

SNo.	Name and Contact Details	Membership No.
97.	Dr. Prosanta Kumar Khan, ISM, Dhanbad (pkkhan_india@yahoo.com)	MISES-97.
98.	Dr. S. Mohanty, ISM, Dhanbad (mohantysp@yahoo.com)	MISES-98.
99.	Dr. Santiswarp Sahoo, IIT, Kanpur (swarups@iitk.ac.in)	MISES-99.
100.	Dr. O.P. Mishra, SAARC, New Delhi (mishraom2000@hotmail.com)	MISES-100.
101.	Dr. Vinod R. Shah, CEPT University, Ahmadabad (profvrshah@gmail.com)	MISES-101.
102.	Dr. Pratima Singh, Nirma University, Ahmedabad (singhpratima@yahoo.com)	MISES-102.
103.	Ms. Falguni Bhattacharjee, ISR, Gandhinagar (falguni.geo@gmail.com)	MISES -103
104.	Dr. Harsh Bhu, MLS University, Udaipur (harsh_bhu2003@yahoo.com)	MISES -104
105.	Sh. Darshan Singh, Pan India Consultants Pvt Ltd, Gurgaon, Haryana (panind@airtelmail.in)	MISES -105
106.	Dr. Prabhin Sukumaran, CHARUSAT, Changa, Gujarat (prabhins@gmail.com)	MISES -106
107.	Dr Pradeep Goswami, Kumaun University, Nainital, Uttarakhand (drpgoswami@yahoo.com)	MISES -107
108.	Dr. Binita Phartiyal, Birbal Sahani Institute of Palaeobotany, Lucknow (binitaphartiyal@gmail.com)	MISES -108
109.	Dr Rajeev Upadhyay, Kumaun University, Nainital (rajeev_up@yahoo.com)	MISES -109
110.	Ms. Parul C Trivedi, IMD, Ahmedabad (pctrivedi123@gmail.com)	MISES -110
111.	Ms. Jyoti Sharma, ISR, Gandhinagar (jyotisharmaitkgp@gmail.com)	MISES -111
112.	Sh. Sushil Gupta, Risk Modeling and Insurance (RMSI), Noida (sushilgupta74@yahoo.com)	MISES -112
113.	Sh. Ketan Singha Roy, ISR, Gandhinagar (ketansinghroy@gmail.com, Ph:09429517873)	MISES -113
114.	Sh. Pavankumar Gayatri, ISR, Gandhinagar (gayatripavankumar@gmail.com)	MISES-114
115.	Sh. Mahesh Perugu, ISR, Gandhinagar (pmaresh.isr@gmail.com)	MISES-115
116.	Sh. Rakesh K Dumka, ISR, Gandhinagar (rkdumka@gmail.com, Ph:08000137268)	MISES-116
117.	Sh. Girish Ch Kothiyri, ISR, Gandhinagar (kothyarigirish_k@rediffmail.com, Ph:09428693921)	MISES-117
118.	Sh.Veerindra Kumar, Kumaun University (veer.pimoli@gmail.com)	MISES-118
119.	Dr. Anand K. Pandey, CSIR-NGRI, Hyderabad (Ph.09440317602, 040-23434700-2416(Ext.))	MISES-119
120.	Dr. Deepali Gadkari, Pune	MISES-120
121.	Sh. G. Suresh, IMD, New Delhi (gsureshimd@yahoo.com, Ph:09873151699,011-26712290)	MISES-121
122.	Sh. P.R. Baidya, IMD, New Delhi (prajbaidya@hotmail.com, Ph:09818522505, 011-26264436)	MISES-122

**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

**Prof. A K Singhvi**, Vice president

**Dr. Kapil Mohan**, Secretary

**Ms. Jyoti Sharma**, Jt. Secretary

**Shri K. M. Rao**, Treasurer

**Dr. T J Majumdar**, Council member

**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 facing problem in sending the e-mail to rediffmail account holders. It is kindly requested to provide alternative e-mail id at [ises2009@gmail.com](mailto:ises2009@gmail.com) for the proper communication.*

◆ *All the instructions related to manuscript submission are available at <http://www.joes.org.in> or alternatively contact us by e-mail at [editor.joes.org.in@gmail.com](mailto:editor.joes.org.in@gmail.com).*

Indian Society of  
Earthquake Science

**Bhoo-Kampan**

**Indian Society of Earthquake  
Science (ISES), [www.ises.in](http://www.ises.in)**

Room No. 103

c/o Institute of Seismological Research,  
Nr. Pt. Deendayal Petroleum University  
Raisan, Gandhinagar-382009,  
Gujarat.

**Editor: Jyoti Sharma**

[jyotisharma@itkgp@gmail.com](mailto:jyotisharma@itkgp@gmail.com)

SNo.	Name and Contact Details	Membership No.
123	Dr. Prabha Pandey, CSIR-NGRI, Hyderabad (ppandey@CSIR-NGRI.res.in, 040-23434700-2631(Ext.))	MISES-123
124	Mr. J.L. Gautam, IMD, New Delhi (jlgautam@rediffmail.com, Ph: 011-24619943, 09868150901)	MISES-124
125	Sh. Zafiruddin Iqbal, GSI, Jaipur (zafirgsi@rediffmail.com, Ph: 0141-2712452, 09414443597)	MISES-125
126	Dr. Navin Juyal, PRL, Ahmedabad (navin@prl.res.in, Ph:09824543940)	MISES-126
127	Sh. Siddharth Prizomwala, ISR, Gandhinagar (siddharth_prizomwala@yahoo.co.in, Ph:9662873835)	MISES-127
128	Sh. Baljit Singh, NHPC Ltd., Assam	MISES-128
129	Sh. Mohinder Pal Singh, NHPC Ltd., Assam (singh.mpl@gmail.com, Ph: 0973728288)	MISES-129
130	Sh. Susheel Kumar, IIG, Navi Mumbai (susheeliig@gmail.com, Ph:09820178320)	MISES-130
131	Dr. Sagrika Mukhopadhyay, IIT, Roorkee (sagarfes@iitr.ernet.in)	MISES-131
132	Sh. H. S. Sisodia, IMD, New Delhi (imdsisodia@gmail.com, ph:-011-43824570)	MISES-132
133	Dr. I. D. Gupta, CWPRS, Pune (idgrh4@gmail.com)	MISES-133
134	Dr. A. A. Bourai, HNB Garhwal University (aabourai@gmail.com, Ph:09412347746)	MISES-134
135	Dr. Gurupad Singh, HNB Garhwal University (Ph:09690464007)	MISES-135
136	Ms. Payal Patel, Ganpat University, Mehasana (Payalpatel21@gmail.com, Ph:09409606155)	MISES-136
137	Dr. K. Veeraswamy, CSIR-NGRI, Hyderabad (kv.swamy@gmail.com, Ph:040-27174567)	MISES-137
138	Dr. Imtiaz Parvez, CSIR-CMMACS, Bengaluru (parvez@cmmacs.ernet.in, Ph:09449816469)	MISES-138
139	Sh. Chiranjib Barman, Variable Energy Cyclotron Center, Kolkata (cbarman@vecc.gov.in, Ph:09432690164)	MISES-139
140	Sh. Yogendra Singh, NIRM, Karnatka (lamyans.yogendra@gmail.com, Ph:09480591704)	MISES-140
141	Mrs. Sangeeta Sharma, CSIR-NEIST, Jorhat Assam (sangees_online@yahoo.com, Ph:09435033203)	MISES-141
142	Mr. Upendra Prasad Singh, NPCIL, Mumbai (upsingh@npcil.co.in, Ph:022-25503374)	MISES-142
143	Dr. Dipak Kumar Bora, Diphu Government College, Assam (dipok23@gmail.com, Ph: 09435729637)	MISES-143
144	Dr. Shantanu Baruah, CSIR-NEIST, Jorhat, Assam (santanub27@gmail.com, Ph: 9435514805)	MISES-144
145	Ms. Jahanvi M. Kumar, Nirma University, Ahmedabad (jahanvim@gmail.com, Ph: +91-9979392921)	MISES-145
146	Ms. Vishwa Joshi, ISR, Gandhinagar (vishwa.joshi@yahoo.com, Ph:9898315738)	MISES-146
147	Dr. H.S. Mandal, IMD, New Delhi (himasgshu1970@gmail.com, Ph:09968213437)	MISES-147
148	Dr. Ajit P. Pandey, IMD, New Delhi (ajeet_imd@rediffmail.com, Ph:011-43824571, 09868906281)	MISES-148
149	Sh. R. K. Singh, IMD, New Delhi (ravi5ravi@yahoo.com, Ph:09971449344)	MISES-149
150	Sh. Vachaspati Pandey, NHPC Ltd., Trongsa, Bhutan (vpnhpc@yahoo.com, Ph:+975-17120040)	MISES-150
151	Sh. Anurag Srivastava, Assam (anuragsrivastav7@gmail.com, Ph:09401391423)	MISES-151
152	Sh. Sarvesh Misra, Teasta hydroelectric Project, Assam (sarveshmisra@geologist.com, Ph:09800003609)	MISES-152
153	Sh. Akhilesh Kumar Verma, IIT, Kharagpur (akhileshddhi2007@gmail.com, Ph:09775551833)	MISES-153
154	Sh. V. G. Kolvankar, BVIMIT, Navi Mumbai (vkolvankar@yahoo.com, Ph:09757163307)	MISES-154
155	Ms. Sonali N. Kulkarni, Bharti Vidhyapeeth, Navi Mumbai (sonalikulkarni91@yahoo.co.in, Ph:09967591940)	MISES-155
156	Sh. S. Murugappan, NHPC Ltd., Assam (smuru_geophysics@rediffmail.com, Ph: 09436069497)	MISES-156
157	Sh. D. C. Tripathi, NHPC Ltd., Faridabad	MISES-157
158	Sh. Peush Chaudhary, ISR, Gandhinagar(Ph:08511636462)	MISES-158
159	Sh. Sandeep Sethi, TCS Ltd., Gandhinagar(san.sethi@gmail.com, Ph:09898986362)	MISES-159