

PUBLICATIONS:

[A] International Journals

1. **Thaker T.P.**, Rao K.S. and Gupta K.K.(2010), "Site Specific Ground Response Studies for Coastal Soil, Kutch, Gujarat: A Case Study", *International Journal of Earth Science and Engineering* 3(4), 543-553.
2. **T.P.Thaker**, Ganesh W. Rathod, K.S.Rao, K.K.Gupta (2012), "Use of Seismotectonic Information for the Seismic Hazard Analysis for Surat City, Gujarat, India: Deterministic and Probabilistic Approach", *Pure and Applied Geophysics*. 169(1-2), 37-54.
3. K.S.Rao, **T.P.Thaker**, A.Aggarwal, T.Bhandari, and S.Kabra (2012), "Deterministic Seismic Hazard Analysis of Ahmedabad Region, Gujarat", *International Journal of Earth Science and Engineering* 5(2), 206-213.

[B] ASCE Special Publications

4. **T.P.Thaker and K.S. Rao** (2014), " Seismic Hazard Analysis for Urban Territories: A Case Study of Ahmedabad Region in the State of Gujarat, India", *Advances in Soil Dynamics and Foundation Engineering*, GSP240: ASCE, 219-228

[C] Book/Book Chapters

5. "Development of Uniform Hazard Response Spectra and Shear Wave Velocity Mapping for Surat City and Surrounding Region, Gujarat, India", **Geotechnical Engineering for Disaster Mitigation and Rehabilitation and Highway Engineering: Geotechnical and Highway Engineering Applications, Challenges and Opportunities**, World Scientific Publisher, Singapore, 2011, ISBN:978-981-4365-14-4.
6. "Estimation of Low Strength Parameters for Seismic Microzonation", **Geotechnical Engineering for Disaster Mitigation and Rehabilitation and Highway Engineering: Geotechnical and Highway Engineering Applications, Challenges and Opportunities**, World Scientific Publisher, Singapore, 2011, ISBN:978-981-4365-14-4.

[D] International Conferences

7. **Thaker T.P.**, Rao K.S., Gupta K.K. (2009), "Ground Response and Site Amplification Studies for Coastal Soil, Kutch, Gujarat: A Case Study", *Proc. International Conference on Advances in Concrete Structural and Geotechnical Engineering (ACSGE 2009)*, October 2009, BITS Pilani, Rajasthan, India.

6. **T.P.Thaker**, K.S.Rao, K.K.Gupta (2010), " Use of Multi Channel Analysis of Surface Wave (MASW) Technique for the Development of Average Shear Wave Velocity (Vs30) Model: A Case Study of Surat City, Gujarat, India", *Proc. of International Conference of Geotechnical Engineering*, November, 2010, Lahor, Pakistan, 251-258.
7. Ganesh W. Rathod, **Tejas P. Thaker**, K. S. Rao and K. K. Gupta (2011), "Estimation of Low Strain Parameters for Seismic Microzonation", *Proc. of The 3rd International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation 2011 combined with The 5th International Conference on Geotechnical and Highway Engineering (GEDMAR), May 2011*, Semarang, Central Java, Indonesia.
8. **T.P.Thaker**, K.S.Rao and K.K.Gupta (2011), "Development of Uniform Hazard Response Spectra and Shear Wave Velocity Mapping for Surat City and Surrounding Region, Gujarat, India" *Proc. of The 3rd International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation 2011 combined with The 5th International Conference on Geotechnical and Highway Engineering (GEDMAR), May 2011*, Semarang, Central Java, Indonesia.
9. **T.P.Thaker** and K.S.Rao (2011), "Development of statistical correlations between shear wave velocity and penetration resistance using MASW technique", *Proc. of Pan American Canadian Geotechnical Conference-2011, Canada*.
10. K.S.Rao, G.W.Rathod, **T.P.Thaker** (2011), "Seismic Microzonation of Indian Megacities", *Proc. First Indo-Japanese Workshop*, Kochi, India. (Invited Paper)
11. **T.P. Thaker** and K.S. Rao (2013), " Stochastic Modeling of Bhuj (2001) Earthquake and Synthesis of Seismic Scenario for the Surat Region, India", *Proc. 10th International Conference on Urban Earthquake Engineering, 1-2nd March, 2013*, Tokyo Institute of Technology, Tokyo, Japan.

[E] National Conferences

12. **T.P.Thaker**, K.S. Rao and K.K.Gupta (2009), "One Dimensional Ground Response Analysis of Coastal Soil near Naliya, Kutch, Gujarat" *Geotechnics in Infrastructure Development (GEOTIDE), Proc. of an Indian Geotechnical Conference-09*, Guntur, Andhra Pradesh, 249-253.
13. **T.P.Thaker**, K.S.Rao, K.K.Gupta (2010), "Seismic Hazard Analysis for Surat City and Surrounding Region, Gujarat", *Proc. of Indian Geotechnical Conference -10 (Geotrendz)*, December 2010, Indian Institute of Technology Bombay, Mumbai, India, 163-166.
14. Rao K.S, Varun M. and **Thaker T.P.** (2010), "Ground Response Studies for the Design of Head Race Tunnel (HRT) of the Chuzachen Hydroelectric Project, Sikkim", *Proc. of Indian Geotechnical Conference -10 (Geotrendz)*,

- December 2010, Indian Institute of Technology Bombay, Mumbai, India, 97-100.
15. **T.P.Thaker**, K.S.Rao, Ganesh W. Rathod and K.K.Gupta (2011), "Estimation of Strong Motions of 2001 Bhuj (Mw 7.7) Earthquake for Surat City, Gujarat using Stochastic Finite Fault Model", *Proc. of 3rd Indian Young Geotechnical Engineers Conference (3IYGEC)*, CRRI, New Delhi, 97-102.
 16. Ganesh W. Rathod, **T.P.Thaker**, K.S.Rao and K.K.Gupta (2011), "Attenuation of Strong Ground Motion for Northern India", *Proc. of 3rd Indian Young Geotechnical Engineers Conference (3IYGEC)*, CRRI, New Delhi, 109-114.
 17. **T.P.Thaker** and P.R.Giri (2006), "Influence of Flyash and Sand on CBR Value of Expansive Soils" *Proc. of National Conference on Civil Engineering Trends, Issues and Challenges* at M.S. University, Vadodara, Gujarat, 34-39.
 18. **T.P.Thaker**, P.R.Giri and C.V.Kulkarni (2007), Influence of Flyash and Sand on Settlement Behavior of Expansive Soils", *Proc. of National Conference on Recent Advances in Civil Engineering (RACE)*, Bhuvneshwar, Orissa, 50-54.
 19. **T.P.Thaker** and P.R.Giri (2007), "A Evaluation of Consolidation Parameters and Permeability of Expansive Soil- Flyash System", *Proc. of First Young Geotechnical Engineer Conference*, JNTU, Hyderabad, Andhra Pradesh, 76-81.
 20. T. Bhandari, **T.P.Thaker** and K.S. Rao (2013), "Seismic Hazard Analysis of Ahmedabad Region", *Proc. Indian Geotechnical Conference*, Indian Institute of Technology Roorkee.

[F] News Letter

21. K.S.Rao, **T.P.Thaker** and Ganesh W. Rathod (2011), "The Japan Earthquake, March 11th, 2011: Let us Learn Some Lessons", *Indian Geotechnical Society News Letter*, January-March, 2011.

PROFESSIONAL AFFILIATIONS:

- ❖ Life member of Indian Geotechnical Society (IGS), New Delhi since 2005.
- ❖ Life Member of Indian Society for Technical Education (ISTE), New Delhi since 2005.
- ❖ Life member of Institution of Engineers (India)
- ❖ Life member of Indian Society for Earthquake Technology, Roorkee, Uttaranchal
- ❖ Life member of Gujarat Institute of Civil Engineers and Architect (GICEA), Ahmedabad

- ❖ Life member of Alumni Association of IIT Delhi
- ❖ Life Member of MSU Alumni Association (MSUCEAA)

AWARDS:

- ❖ Biography appeared in “Marquis Who’s Who in the World 2013” (30th Edition), USA
- ❖ “Young Scientist Travel Grant Award” by Centre of Urban Earthquake Engineering, Tokyo Institute of Technology, Japan in Year 2013
- ❖ “Young Scientist Travel Grant Award” by Council of Scientific and Industrial Research (CSIR), New Delhi, India in Year 2011
- ❖ Merit Scholarship by Ministry of Human Resources and Development (M.H.R.D.), Govt. of India for Pursuing Doctoral Study in Year 2008 to 2012.
- ❖ Elected as a Executive Member of Indian Society for Technical Education (ISTE), Local Chapter, Parul University, Vadodara during Year 2006-08.
- ❖ Third Rank in Master of Engineering (Geotech.) at M.S. University, Vadodara, 2005

THESIS GUIDED:

Ph.D

1. Mr. Akshay Jain Research Area: Geomatics and Earthquake Engineering
Undergoing Course work, Joined in 2014

M.Tech

2. Ms.Viraj Parekh Research Area: Estimation of Seismic Risk through
Microseismic Intensities, Joined in 2013