

PUBLICATIONS:

JOURNAL

- **Dave, T. N.** and Dasaka, S. M.: “The performance of a diaphragm type boundary pressure transducer under cyclic loading”, *Journal of Testing and Evaluation*, ASTM, **Revised Manuscript details: JTE-2014-0272.R1**, Submitted on 24th October, 2014.
- **Dave, T. N.** and Dasaka, S. M. (2014) “Surcharge induced earth pressure reduction on rigid retaining wall using EPS geofoam”, GSP 242, *Proceedings of GeoShanghai 2014*, ASCE, Shanghai, China, pp. 836-844.
- **Dave, T. N.** and Dasaka, S. M. (2013) “In-house calibration of pressure transducers and scale effect on calibration factors”, *Geomechanics and Engineering – An Intl. Journal*, Techno Press, Vol. 5, No. 1, pp. 1-15.
- **Dave, T. N.** and Dasaka, S. M. (2012) “Assessment of portable travelling pluviator to prepare reconstituted sand specimens”, *Geomechanics and Engineering – An Intl. Journal*, Techno Press, Vol. 4, No. 2, June 2012, pp. 79-90.
- **Dave, T. N.** and Dasaka, S. M. (2012) “Transition of earth pressure behind rigid retaining wall”, *International Journal of Geotechnical Engineering*, J. Ross Publishers, Vol. 6, No. 4, pp. 427-435.
- **Dave, T. N.** and Dasaka, S. M. (2012) “Universal calibration device for fluid and in-soil calibration of pressure transducers”, *Indian Geotechnical Journal – Springer Publishers*, Vol. 42, No. 3, June 2012, pp. 212-219.
- **Dave, T.N.** and Dasaka, S. M. (2011) “A review on pressure measurement using earth pressure cell”, *International Journal of Earth Science and Engineering*, ISSN 0974-5904, Vol. 04, No. 06 SPL, October 2011, pp. 1031-1034.
- **Dave, T. N.**, Dasaka, S. M. and Rane, H. D. (2011) “Universal Calibration Device for pressure transducer calibration”, *In Proceedings of Geo-Frontiers 2011*, ASCE, Dallas, Texas, USA, pp. 2605-2610.
- **Dave, T. N.** and Dasaka, S. M.: “EPS geofoam buffers to reduce earth pressure on rigid retaining walls due to traffic loading”, manuscript under preparation.

CONFERENCE

- Dasaka, S. M., **Dave, T. N.**, Gade, V. K. and Chauhan, V. B. (2014) "Seismic earth pressure on gravity retaining walls using EPS geofoam", In Proceedings of *8th International Conference on Physical Modelling in Geotechnics 2014*, Perth, Australia, pp. 1025-1030.
- Dasaka, S. M., **Dave, T. N.** and Gade, V. K. (2013) "Reliability assessment of earth pressure on rigid non-yielding retaining walls", In Proceedings of *4th International Symposium on Geotechnical Safety and Risk*, Hong Kong, China, pp. 257-261.
- **Dave, T. N.**, Dasaka, S. M., Khan, N. and Murali Krishna, A. (2013) "Evaluation of Seismic earth pressure reduction using EPS geofoam, In Proceedings of *18th International Conference on Soil Mechanics and Geotechnical Engineering*, Paris, France, pp. 903-906.
- **Dave, T. N.** and Dasaka, S. M. (2013) "Parametric studies on reduction in surcharge induced earth pressure using EPS geofoam inclusion, In Proceedings of *5th International Young Geotechnical Engineering Conference*, Paris, France, pp. 543-546.
- **Dave, T. N.** and Dasaka, S. M. (2012) "Experimental study on EPS geofoam buffer for reduction of earth pressure due to traffic loads", In Proceedings of *International conference on Ground Improvement and Ground Control*, Wollongong, Australia. pp. 957-963.
- **Dave, T. N.** and Dasaka, S. M. (2010) "Critical studies on sand bed preparation using rainfall technique", In Proceedings of *6th International Congress on Environmental Geotechnics*, McGraw Hill Professional Publishers, New Delhi, pp. 1747-1752.
- **Dave, T. N.**, Nagi, V. N., Shukla, A. V. and Kumawat, C. D. (2014) "Settlement behaviour of clay with jute vertical drain", Accepted for oral presentation, Indian Geotechnical Conference 2014, JNTU Kakinada.
- Gade, V. K., **Dave, T. N.**, Chauhan, V. B. and Dasaka, S. M. (2013) "Portable travelling pluviator to reconstitute specimens of cohesionless soils, In Proceedings of *Indian Geotechnical Conference 2013*, IIT Roorkee, India, pp. 1-4.
- **Dave, T. N.** and Dasaka, S. M. (2012) "Evaluation of lateral thrust on retaining wall under combined surcharge and seismic loading, In Proceedings of *Indian Geotechnical Conference - 2012*, pp. 1013-1016.

- **Dave, T. N.** and Dasaka, S. M. (2011) “Experimental appraisal of pressure cell output using triaxial apparatus”, In Proceedings of *Indian Geotechnical Conference – 2011*, pp. 128-130.
- **Dave, T. N.**, Biyani, K. R. and Murty, D.S.N. (2008) “Effect of specimen size and shape of opening on the experimental behaviour of rock mass”, In Proceedings of *Indian Geotechnical Conference- 2008*, pp. 257-259.

PROFESSIONAL AFFILIATIONS:

- International Society of Soil Mechanics and Geotechnical Engineering (2014-2017)
- Life member of Indian Geotechnical Society

THESIS GUIDED:

- Energy Foundations for Infrastructure Projects – Mr. Sarathi Bhavsar (2013 – 2015 Batch) – On going.
- Soft Soil Improvement using Pre-Fabricated Jute Drain – Mr. Vishwas Nagi, Mr. Akash Shukla and Mr. Charchit Kumawat (2010 – 2014 Batch) – Completed
- Soft Soil Improvement using Combined Surcharge – PVD – Vacuum Loading System – Mr. Abhinav Kakade, Mr. Raj Agarwal, Mr. Ayush Khanna, Mr. Apurva Garg (2011-2015 Batch) – On going.
- Energy Foundation for Tropical Climate – Mr. Vinay Anghan, Ms. Oshin Arora, Ms. Shivani Dhanwani, Mr. Mohit Srivastava (2011-2015 Batch) – On going.
- Polymer Modified Structural Light Weight Concrete – Mr. Shivang Tarika, Mr. Ayush Tiwari, Ms. Chelna Salgia and Mr. Manpreet Singh Wadhwan (2011-2015 Batch) – On going.
- Re-use of Plastic Waste in Geotechnical Applications – Mr. Arijit Samanta, Mr. Shubham Mishra, Mr. Akash Gupta and Mr. Nipun Verma (2011-2015 Batch) – On going.

RESEARCH/SPONSERED PROJECTS

- Energy Saving Green Buildings using Polymer Modified Light Weight Concrete, Funded by Consortium of Conservation of Energy - Government of Gujarat.
- Assessment and Characterization of Alternative Materials for Light Weight Concrete, Funded by Internal Quality Enhancement Cell - Pandit Deendayal Petroleum University.

PATENT – INTELLECTUAL PROPERTY

- Dasaka, S. M. and **Dave, T. N.** “A triaxial vveocomposite testing apparatus for simultaneously calibrating multiple pressure transducers”, Indvian Patent Application No. 223/MUM/2011, Filed on 25th January-2011.