



## Dr. E Saibaba Reddy

### Professor & Principal, JNTUHCEH

Civil Engineering

#### Areas of Interest:

- ▶ Pile Foundations under static and cyclic loading
- ▶ Machine foundations
- ▶ Ground improvement techniques and Environmental Geotechnology.

Dr. E Saibaba Reddy is presently a Professor of Civil Engineering JNTUHCEH. He served and held several Academic and Administrative positions including Vice Chancellor of Veer Surendra Sai University of Technology (VSSUT), Burla – Odisha, Rector (JNTUH), Registrar (JNTUH), Director of Academic and Planning (JNTUH), Principal (JNTUHCEH), Vice-Principal, (JNTUHCEH), Coordinator EDP (JNTUHCEH), Head of JNTUHCEH.

He obtained B.Tech. (Civil Engg) from JNTU Hyderabad and M.E. (Hons) from University of Roorkee, and PhD. from University of Nottingham (U.K). He did two Post Doctoral Research Programmes one from Saint Maries University, Halifax, Canada and the other from University of Birmingham, (U.K). He held various administrative posts and developed the university with his projects and developmental activities. Notable among his awards are the American Society for Testing Materials Award for the year 1998 for outstanding research paper, Shamshare Prakash Research Award 2000 from University of Roorkee now IIT, Roorkee, Commonwealth Scholarship for Ph.D. and Commonwealth Fellowship for post-doctoral research.

He was Chairman/Member of a number of Expert Committees formulated by the A.P. Government to examine the causes of failures and to suggest solution to the problems. He was the Convener EAMCET 2007 and EAMCET 2008 and Convener PRITACET 2008. He also served as Expert Committee Member of AICTE for scrutinizing project reports as well as was the member in the Board of Reviewers for the Institution of Engineers journal. Editorial Board Member of International Journal of Earth Sciences and Engineering. He is the member/fellow of as many as ten professional bodies in the field of Civil Engineering and Technical Education. He has visited as many as 20 foreign Universities in UK, US and Canada.

#### - ▶ Educational & Professional

##### - ▶ Academic Qualifications

- ▶ Post Doc., University of Birmingham, UK. (2002-2003)
- ▶ Ph.D, University of Nottingham, UK (1990-1993)
- ▶ M.E. in Hons, University of Roorkee with First class with Honors (Univ. 3rd Rank) (1984-1989)
- ▶ B.Tech. in Civil Engg, J.N.T. University with First Class with Distn (Univ.5th Rank) (1979-1983)
- ▶ Post Doc., St. Mary's University, Canada

##### - ▶ At JNTUH

- ▶ Professor, JNTU (1999 - Till Date)

##### - ▶ Research

##### - ▶ Research Projects

- ▶ *Modernization of Env. Geotech. Lab.* - 6 lakhs., funded by Geotech. Lab - 600000 (sanctioned in 2012 duration of 0 years)
- ▶ *Networking Scheme with IIT Kanpur.* - 2.5 lakhs, funded by IIT Kanpur - 250000 (sanctioned in 2012 duration of 0 years)
- ▶ *Modernization. Adv. Geotech. & Rock. Mechs. Lab.* -10 lakhs, funded by Mechs. Lab. - 1000000 (2012 - 0)
- ▶ *Modernization of Soil dynamics laboratory* - 3 lakhs, funded by - - 300000 (sanctioned in 2012 duration of 0 years)
- ▶ *4 Research projects sanctioned by Govt. of India*, funded by Govt. of India - 0 (2012 - 0)

##### - ▶ Books

- ▶ Dr. E. Saibaba Reddy, *Geotechnical Testing Manual for B.Tech Students*, SCDE, JNT University
- ▶ Dr. E. Saibaba Reddy, *A Text book on Measurement of Engineering properties of Soils*, New age International

##### - ▶ Publications

- **International Journals**

- ▶ Narasimha Reddy G.V, Madhav M.R, Saibaba Reddy. E, *Pseudo-Dynamic Analysis of Reinforced Soil Wall- Effect of Kinematics of Sliding Mass Considering Linear Backfill Response*, International Conference on Soil Mechanics and Geotechnical Engineering, pp.5-9, ALEXANDRIA, EGYPT., 2009
- ▶ Narasimha Reddy, G.V., Madhav, M.R, Saibaba Reddy, E., *Pseudo-Static Seismic Analysis of Reinforced Soil Wall -Effect of Oblique Displacement*, Geotextile and Geomembranes Journal, Elsevier, 2008
- ▶ E. Saibaba Reddy, V. Padmavathi, Madhav, M.R, *Analysis of Laterally Loaded Rigid Piles in Sands Based on Kinematics and Non-linear Sub-grade Response*, Indian Geotechnical Journal, ISBN No.Vol. 37, Issue No.No. 3, pp.190-209, 2007
- ▶ **E. Saibaba Reddy**, K. Rama Sastri, Bhaska Kura, *Filtering Decanting water in fly ash lagoon using Geotextiles- An Experimental Study Journal of Soil and Sediment Contamination*, pp.229-251, 2003
- ▶ **E. Saibaba Reddy**, K. Rama Sastri, *Geotechnical investigation in hard soils/soft rocks of Hyderabad region need for new testing methods*, Journal of Engineering Geology, Netherlands, 2002
- ▶ **E. Saibaba Reddy**, K. Rama Sastri, *Improving the lateral capacity of piles in sand*, Proceedings-Geotechnical Engineering, Institution of Civil Engineers, London, 2002
- ▶ **E. Saibaba Reddy**, D.N. Chapman, Mike O'Reilly, *Stress and displacement in sand during pile installation and their effect on pile capacity*, Proceedings-Geotechnical Engineering, Institution of Civil Engineers, London, 2002
- ▶ **E. Saibaba Reddy**, D.N. Chapman, V.V.R.N. Sastry, *Discussion on Direct shear interface test for shaft capacity of piles in sand*, Geotechnical testing journal of ASTM, Issue No.Vol. 24, 2001
- ▶ **E. Saibaba Reddy**, D.N. Chapman, *Calibration of pressure cells using sand as the pressurising medium*, Geotechnical testing journal of ASTM., Issue No.No. 5543, 2001
- ▶ **E. Saibaba Reddy**, K. Rama Sastri, Bhaska Kura, *Soil contamination at thermal power stations use of Geotextiles*, Journal of soil contamination, pp.98-106, 2001
- ▶ **E. Saibaba Reddy**, P. Ram Reddy, *Effect of ground moisture on pollutant transport behaviour*, International Conferene on Industrial Pollution and Control Technologies (ICIPACT 2001), Organised by JNT University., 2001
- ▶ **E. Saibaba Reddy**, K. Rama Sastri, *An Experimental Investigation on Trench Isolation Techniques for Vibration Control*, 4th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, Issue No.Paper No.2.41, Organised at San Diego,California, 2001
- ▶ **E. Saibaba Reddy**, K.Rama Sastri, *Uplift capacity of vertical piles in sand under oblique pull*, Canadian Geotechnical Journal, 2000
- ▶ **E. Saibaba Reddy**, D.N. Chapman, V.V.R.N. Sastry, *Direct Shear Interface Test for Shaft Capacity of Piles in Sand*, Geotechnical testing journal of ASTM, Issue No.Vol. 23, pp.199-205, 2000
- ▶ **E. Saibaba Reddy**, E.C. Nirmala Peter, K.Rama Sastri, Bhaskar Kura, *Fly ash disposal problems at thermal power stations an experimental stud*, International Journal of Energy research,, Issue No.Vol. 23, pp.589-603, John Wiley & Sons, 1999
- ▶ **E. Saibaba Reddy**, K. Rama Sastri, *Fly ash disposal problems, use of Geotextiles as filter material for ash-pond bunds a model study*, 12th African regional Conference, ISBN No.Rivonia, South Africa, 1999
- ▶ **E. Saibaba Reddy**, E.C. Nirmala Peter, *Effect of water table on pollutant transport*, Int. Conf. in Environmental Engg. Hyderabad, 1999
- ▶ **E. Saibaba Reddy**, K. Rama Sastri, *Use of Geotextiles as filters in Decanting wells of ash ponds*, Geotextiles and Geomembranes an International Journal, Issue No.Vol. 16, pp.303-310, 1998
- ▶ E.Saibaba Reddy, M.O' Reilly, D.N. Chapman, *Modified T-Z model - a software for tension piles*, Computer and structures, Issue No.Vol. 68, pp.613-625, 1998
- ▶ E.Saibaba Reddy, D.N. Chapman, M.O' Reilly, *Design and performance of soil-pile-slip test apparatus for tension piles*, Geotechnical testing journal, Issue No.Vol. 21, pp.132-139, 1998
- ▶ V.V.R.N Sastry, E. Saibaba Reddy, *Behaviour of Flexible Batter piles in weak soils*, International Conference on Low-Land Technology,Japan, November, 1998
- ▶ K. Ramamohan Rao, M.V. Seshagiri Rao, E. Saibaba Reddy, B.Reddappa, *Effect of damping on response of buildings using finite element approach*, International conference on Disaster management,Guwahati, India, pp.23-26, April, 1998
- ▶ E.Saibaba Reddy, M.O' Reilly, D.N. Chapman, *A Software to Predict the Behavior of Tension Piles*, Computers and Structures, an International Journal, Issue No.Vol.62, pp.653-658, International Journal, 1997
- ▶ E.Saibaba Reddy, M.O' Reilly, D.N. Chapman, *A computer package for the design of piles under cyclic tensile loads*, Computers and Structures, Issue No.Vol. 68, pp.149-158, 1997
- ▶ **E. Saibaba Reddy**, Jwannis Reddy, *Interference behaviour of Bridge Foundations on Sand*, *Journal of Indian High Ways*, pp.5-10, 1994
- ▶ E.Saibaba Reddy, *A computer Package for a Geotechnical laboratory*, Computers in Industry an International Journal, Issue No.Vol. 21, pp.285-293, Elsevier Publishers, 1993
- ▶ **E. Saibaba Reddy**, *Cyclic loading of piles, Presented at a Technical meeting Organised by East Midlands ( England )*, Geotechnical research group at Nottingham Polytechnic, 1992
- ▶ E.Saibaba Reddy, *Analysis of Soil Properties and Foundation Design - Computer Applications*, Computers in Industry an International Journal, Issue No.Vol. 20, pp.99-106, Elsevier Publishers, 1992
- ▶ E. Saibaba Reddy, *Interference of Eccentrically Loaded Footings*, International Conference on Geotechnical Engineering, University of Teknologi Malaysia, Johar Bahru, Malasia., pp.21-23, April, 1992
- ▶ **E. Saibaba Reddy**, *Numerical Methods in Geotechnical Engineering*, Seminar organised by University of Nottingham, U.K., 1991
- ▶ Vidyaranya, B., Madhav, M.R., Saibaba Reddy, E., *Ultimate Pullout Capacity of Granular Pile Anchors in Non-Homogeneous Ground*, Kolkata
- ▶ **E. Saibaba Reddy**, K. Rama Sastri, *Failure of an earthen embankment- causes and remedial measures-- A case Study*, 4th International Conference in Civil Engineering, Sharif University of Technology, Tehran, Iran,
- ▶ **E. Saibaba Reddy**, Mike O'Reilly, D.N. Chapman, *Mike O'Reilly*, Displacement and Failure Mechanisms of piles under cyclic tensile loads First Asia-Pacific Conference on offshore systems, Organized by Mara Institute of Technology, Kuala Lumpur, Malaysia, 1996
- ▶ **E. Saibaba Reddy**, Mike O'Reilly, D.N. Reddy, *Displacement and failure Mechanism of piles under cyclic tensile loads*, 6th International Conference and Exhibition on Piling and Deep foundations Organised by Deep Foundations Institute in Association with ASSMFE
- ▶ **E. Saibaba Reddy**, K. Rama Sastri, *Geotechnical investigation problems in soils of Hyderabad region*, International symposium on Hard Soils and Soft Rocks, Athens Greece, pp.243-251

## National Journals

- > Narasimha Reddy, G.V., Madhav, M.R., Saibaba Reddy, E., *Pseudo-Static Analysis of Reinforced Soil Wall- Effect of Kinematics of Sliding Wedge Considering Linear Backfill Response*, Indian Geotechnical Conference, IISc, Bangalore, 2009
- > Rajasekhar, P., Anji Reddy, M., Saibaba Reddy, E., *Studies on impact of industrialization on ground water quality using remote sensing and GIS: A model study*, Environmental Geochemistry, ISBN No. Vol.10, Issue No.1&2, pp.15-20, 2007
- > Nirmala Peter, E.C., Madhav, M.R., Saibaba Reddy, E., *Modeling of One Dimensional Flow and Dispersion Study of Effect of Scale Dependent Dispersion Coefficient*, IGC-2006, pp.887-890, Chennai, 2006
- > Padmavathi, V., Madhav, M.R., Saibaba Reddy, E., *Comparison of Distribution of Soil Pressures on Laterally Loaded Pile*, Proc. of CONCEPTS, pp.89-93, Kakinada, 2006
- > Padmavathi, V., Madhav, M.R., Saibaba Reddy, E., *Comparison of Ultimate Lateral Loads by different methods*, Issue No. IGC-2006, pp.471-474, 2006
- > Vidyaranya, B., Madhav, M.R., Saibaba Reddy, E., *Ultimate Pullout capacity of Granular Pile Anchors in Homogeneous Ground*, pp.493-496, Chennai, 2006
- > G.V. Narasimha Reddy, Madhav M.R., Saibaba Reddy, E., *Design Charts for Pseudo Static Stability of R.E. Walls Using Horizontal Slice Method*, Indian Geotechnical Conference, pp.671-674, 2006
- > G.V. Narasimha Reddy, Madhav M.R., Saibaba Reddy, E., *Design Charts for Reinforced Earth Walls Using Horizontal Slice Method*, National Conference on Corrective Engineering Practices in Troublesome soils, pp.15-18, 2006
- > Padmavathi, V., Saibaba Reddy, E., *Geotechnical Aspects of an Engineered Landfill - A Case Study*, GEOPRACTICE, , pp.201-206, IISc, Bangalore, 2005
- > G.V. Narasimha Reddy, Saibaba Reddy, E., Madhav M.R., *Modelling of Leachate Flow-A Review*, National Conference on Geotechnics in Environmental Protection, Issue No. p. VIII, pp.26-31, M.N.I.T. Allahabad, 2005
- > Madhav, M.R., Saibaba Reddy, E., *Mathur, M.*, In Situ Tilt Test for Rock fill Strength for Designing Rock fall Prevention Measures, pp.13-16, Warangal, 2004
- > E.C. Nirmala Peter, E. Saibaba Reddy, *Laboratory Model for the Determination of Dispersion Coefficient in Soils*, Indian Geotechnical Conference, pp.529-532, NIT Warangal, 2004
- > Padmavathi, V., Saibaba Reddy, E., Madhav M.R., *Behaviour of Rigid Batter Piles under Axial Loads*, Indian Geotechnical Conference, Issue No. Vol.1, pp.355-357, Warangal, 2004
- > **E. Saibaba Reddy**, *Role of Geotechnical Engineering for the safe design of Structures*, National Conference on Recent Advances in Structural Engineering, JNTU College of Engineering, Ananthapur, 2004
- > **E. Saibaba Reddy**, E.C. Nirmala Peter, *Effect of soil moisture on pollutant spread in sandy soil*, Indian Geotechnical Conference 2003, Indian Institute of Technology Roorkee, India, 2003
- > **E. Saibaba Reddy**, *Behaviour of piles under Cyclic Tensile Loads* Shamshare Prakash Research Award Lecture, IIT, Roorkee, 2001
- > **E. Saibaba Reddy**, P. Ram Reddy, *Natural and man-made disasters*, National Conference on Disaster Prevention Mitigation and Management, pp.20-24, 2001
- > **E. Saibaba Reddy**, B. Ashok, *Effect of soil viscosity on Pollutant Transport an Experimental Studies*, Workshop on Environmental Geotechnology, Soil Contamination Monitoring and Control, Organised by the Centre for Environmental Geotechnology, JNTU CEH and IGS Hyderabad, 2000
- > **E. Saibaba Reddy**, *Failure of summer storage tank causes and remedial*, A seminar on the Geotechnical aspects of problematic soils for Buildings, Transportation and Irrigation structures, pp.171-177, N.T. University, Hyderabad, 1998
- > J.R. Somayajulu, E. Saibaba Reddy, *Use of Lime Columns in soft and expansive soils - a field application*, Terzaghi-98, A seminar on the Geotechnical aspects of problematic soils for Buildings, Transportation and Irrigation structures, pp.68-78, J.N.T. University, Hyderabad, 1998
- > M.V. Seshagiri Rao, **E. Saibaba Reddy**, Pradeep Kumar, *Comparative study of Silica fume and Rice husk ash concrete*, National Seminar Organised by Institution of Engineers, Roorkee, 1998
- > **E. Saibaba Reddy**, K. Rama mohan Rao, *Role of numerical methods in Civil Engineering*, Conference on mathematics and its applications in Engineering and Industry, Department of Mathematics, University of Roorkee, 1996
- > **E. Saibaba Reddy**, Jwannis Reddy, *Interference behaviour of Bridge Foundations on Sand*, Journal of Indian High Ways, pp.5-10, 1994
- > **E. Saibaba Reddy**, *Reliability of Pavement Design Based on Group Index Method*, Journal of Indian High Ways, pp.5-17, 1990
- > M.V. Seshagiri Rao, **E. Saibaba Reddy**, *Over reinforced steel fiber, concrete beams*, National Seminar on Recent Trends in Structural Engineering, JNTU College of Engineering, KAKINADA, 1989
- > **E. Saibaba Reddy**, Pradeep Kumar, M.V. Seshagiri Rao, *Failure of a water tank due to improper soil investigation*, National Symposium on Problematic Soils, NTU College of Engineering. KAKINADA, 1989
- > E. Saibaba Reddy, *Roof Structures for Low Cost Housing*, Indian Seminar on Modern Trends in Low Cost Housing, Organised by Institution of Civil Engineers, Visakhapatnam center
- > E. Saibaba Reddy, M.V. Seshagiri Rao, K. Rama Mohan Rao, *Plastics as Low Cost Housing Material*, Indian Seminar on Modern Trends in Low Cost Housing, Organised by Institution of Civil Engineers, Visakhapatnam center,
- > Narasimha Reddy, G.V., G.V. Madhav, Saibaba Reddy, E., *Critical Failure Plane in Reinforced Soil Walls*, Proceedings of Symposium on Engineering of Ground and Environmental Geotechnics, pp.148-153, 2008, Hyderabad
- > Narasimha Reddy, G.V., G.V. Madhav, Saibaba Reddy, E., *Seismic Stability of Reinforced Soil Walls based on Coulomb and Coherent Gravity Approaches using HSM*, Proceedings of First Indian Geotechnical Engineers Conference, pp.149-154, Hyderabad
- > Narasimha Reddy, G.V., Saibaba Reddy, E., Madhav M.R., *Design Charts for Stability of R.E. Walls using Horizontal Slice Method*, National Conference on Corrective Engineering Practices in Troublesome Soils (CONCEPTS), pp.15-18, JNTUCE, Kakinada
- > Padmavathi, V., Saibaba Reddy, E., Madhav, M.R., *Analysis of Laterally Loaded Rigid Piles in Sands Using Non-Linear Subgrade Reaction*, Indian Geotechnical Conference, Issue No. vol.2., pp.27-30, 2005, Ahmadabad
- > Saibaba Reddy, E., Narasimha Reddy, G. V., *Pollutant Spread in Layered Soil*, A National Conference on Ground Engineering and Emerging Techniques, pp.519-521, N.I.T. Warangal

- ▶ **Events Participated/Organized**

- ▶ **Organized**

- ▶ Organized a Conference on 1st National Conference on Remote Sensing Application (NCRSA -2018), JNTU Hyderabad, 24-04-2018 to
- ▶ Organized a Refresher Course on A 5-Day Faculty Development Program on "Computational Fluid Dynamics & its Applications in Mechanical Engineering", Mechanical Engg. Dept. JNTU Hyderabad, 23-04-2018 to 27-04-2018
- ▶ Organized a Conference on National Conference on Recent Trends in Mechanical Engineering (NCRTME-2018), JNTU Hyderabad, 26-02-2018 to 27-02-2018

- ▶ **Participated**

- ▶ Participated in a Tutorial on *30 Lectures delivered at Institution of Engineers & SV University & Engineering Staff College, other Engineering Training Institutes, -,*

- ▶ **Administrative Positions Held**

- ▶ Registrar I/c., Jawaharlal Nehru Technological University, Hyderabad, 01 Aug 2008 - 30 Jun 2010
- ▶ Director, Academic & Planning JNTU, 04 May 2005 - 31 Aug 2008
- ▶ Vice-Principal, JNTU College of Engineering, Hyderabad, 01 Jun 2004 - 31 May 2005
- ▶ Coordinator, Entrepreneur Development Cell, JNT University, 01 Jan 2004 - 31 May 2005
- ▶ Co-coordinator, Center for Geo-Env. Engg, JNTU College of Engg, Hyderabad, 01 Jan 2002 - 15 Jan 2005
- ▶ Head of Civil Engineering Department, JNTU College of Engineering, Hyderabad, 01 Jan 2000 - 30 Aug 2003
- ▶ Head of Geo-technical Division, Jawaharlal Nehru Technological University, Hyderabad, 01 Jan 1995 - 31 Jan 2000
- ▶ Director, Jawaharlal Nehru Technological University, Hyderabad
- ▶ Director, Jawaharlal Nehru Technological University, Hyderabad
- ▶ Rector, JNTUH May 2012 - May 2014
- ▶ Director , Academic Audit Cell March 2012 - May 2012
- ▶ , Officer on Special Duty to Vice-Chancellor June 2010 - July 2011
- ▶ Convener, EAMCET 2007 & 2008
- ▶ Convener, PRITACET 2008
- ▶ Vice Chancellor, Veer Surendra Sai University of Technology-Odisha

- ▶ **Project/Research Guidance**

- ▶ **Students**

Student Name	Title	Year	Download
G.V.Narasimha Reddy	Static and Seismic analysis of Reinforced soil walls considering Kinematics of failure	2008	
V.Padmavathi	Response of Rigid Vertical Pile Under lateral load based on Kinematics	2008	
E.C Nirmal Peter	Physical and Numerical Modelling of one-dimensional Contaminants Transport with Scale-dependent Dispersion	2007	

- ▶ **Countries/Foreign Universities**

- ▶ University of Wolver Hampton, UK
- ▶ University of Nottingham,, UK
- ▶ University of New Orleans, USA
- ▶ University of Manchester, UK
- ▶ University of London, (Imperial College), London, UK
- ▶ University of Illinois at Chicago, USA
- ▶ University of Chicago, USA
- ▶ University of Central England, Birmingham
- ▶ University of Cambridge, UK
- ▶ University of Birmingham, UK
- ▶ Technical University of Nova Scotia, Canada
- ▶ Sheffield University, UK
- ▶ Sheffield Hallam University, UK
- ▶ Saint Mary?s University, Canada
- ▶ Nottingham Trent University, UK
- ▶ Northwestern University, Chicago
- ▶ Kansas State University, USA
- ▶ Illinois Institute of Technology, Chicago, USA
- ▶ Dalhousie University, Canada

-> **Others**

- ▶ Guided 3 Ph.D. Projects
- ▶ Guided 22 M.Tech. Projects
- ▶ Guided 28 B.Tech. Projects
- ▶ Guiding 5 Ph. D Projects
- ▶ Convener EAMCET – 2008
- ▶ Convener EAMCET – 2007
- ▶ Convener PRITACET – 2007
- ▶ **Admission Test for 21st Century Gurukulams:**
- ▶ In-charge Geotechnical Engineering Laboratory
- ☒ In-charge Computers Laboratory of Civil Engg. Department
- ▶ NSS Programme officer
- ▶ Student advisor

**Contact :**

**Dr. E Saibaba Reddy**  
Civil Engineering

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