

Dr. R. Shivashankar

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(1) BIOGRAPHICAL DATA

(A) EDUCATION

- (i) SSLC (X Standard) Vijaya High School, Jayanagar, Bangalore-11
June 1968- June 1971 (Awarded 'Best Student' of the Year 1971), First Class
- (ii) 2 Year PUC National College, Basavanagudi, Bangalore-4
June 1971-June 1973 First Class Distinction
- (iii) B.E. (Civil Engg.) University Visvesvaraya College of Engg.
[5 years course] (UVCE) Bangalore University, Bangalore-56
July 1973-July 1978 First Class Distinction and top rank in all 10 semesters
- (iv) M.Tech. (Civil Engg) Indian Institute of Technology, Madras (IITM)
[2 years course] Subject: Soil Mechanics & Foundation Engineering
August 1978-August 1980 First Class
- Thesis Title: Superstructure-Footing-Soil Interaction (Guide: Prof. K. S. Sankaran, IITM)
- (v) **Doctor of Engineering** **Asian Instt. of Technology (AIT), Bangkok, Thailand**
D.Eng. (Geotechnical Engg.) **(Japanese Govt. Scholarship & USAID funded project)**
May 1987-December 1991 totally 18 credits earned through course work

Title of Dissertation: "Behavior of Mechanically Stabilized Earth (MSE) Embankment with Poor Quality Backfills on Soft Clay Deposits, including a Study of the Pullout Resistances" [AIT Diss.No.GT-90-3]

Doctoral Advisor: **Prof. Dennes T. Bergado**, (Ph.D. Utah State Uni., USA), Professor of Geotechnical and Earth Resources Engineering (GTE) at the School of Engineering and Technology (SET) of the Asian Institute of Technology (AIT), Bangkok, Thailand (*Presently Emeritus Professor at AIT*)

Doctoral Committee: (1) Prof. A. S. Balasubramaniam, Ph.D. (Cambridge)
(2) Prof. Noppadol Phienwej, Ph.D. (UIUC)
(3) Prof. Pisidhi Karasudhi, Ph.D.(North-western)
(4) Prof. Jiro Kuwano, Ph.D. (Tokyo) / Prof. Yusuke Honjo, Ph.D.(MIT-USA)

External Examiners: **(1) Prof. Robert D. Holtz, University of Washington, Seattle, WA, USA** &
(2) Prof. J. Richard Bell, Oregon State University, USA

AIT Ranking: U-multirank of the EU ranks AIT as the world top in term of international dimension
<http://www.umultirank.org/#!/readymade?trackType=illustrative&sightMode=undefined&ranking=9&sortCol=overallPerformance&sortOrder=desc§ion=illustrativeRanking>

(B) EMPLOYMENT HISTORY AND SIGNIFICANT PROFESSIONAL AND ADMINISTRATIVE POSITIONS HELD

N.I.T.K. SURATHKAL (FEB 1995 TO DATE)

- (i) 16 February 1995 to date
Employer: National Institute of Technology Karnataka (NITK), Surathkal
[erstwhile Karnataka Regional Engg. College (KREC), Surathkal]
Positions held: **Professor (since June 2002 to date);**
Assistant Professor (February 1995 to June 2002)
- (ii) Professor i/c of Training & Placement, NITK, March 04, 2011 to March 31, 2014
- (iii) Dean (R&D), NITK, 1st June 2007 to 31st December 2010. [First ever Dean \(R&D\) of NITK](#)
Responsible for signing a number of MOUs with foreign universities, organizations such as BARC, CPRI, NAL, NI, etc.
- (iv) Editor-in-Chief of NITK Research Bulletin, June 2007 to December 2010
- (v) Chairman, Research Advisory Board (RAB), NITK Surathkal, June 2007 to Dec. 2010
- (vi) Chairman, Centre for Continuing Education, NITK, Surathkal, 1-7-2002 to 24-1-2008 (& Coordinator for IGNOU study Centre (1317P) at NITK for Engineering)
- (vii) Head of Department of Civil Engg., NITK, Surathkal, June 2003 to Sept.2006 [Chairman of DRPC, DPGC, DUGC and other academic bodies, member of BOS, Senate member etc.].
- (viii) Presently Chairman of Surathkal Chapter of the Indian Geotechnical Society. In the past had served as Secretary and Treasurer.
- (ix) Served as Chairman of Civil Engineering Association, NITK Surathkal (2003-06)
- (x) Senate Member of NITK Senate since 2004
- (xi) Faculty Advisor of M.Tech (Geotechnical Engineering)
- (xii) Recognized as a Chartered Engineer (India) by the Institute of Engineers, India (IEI) [M112336/4]
- (xiii) PMGSY STA (Karnataka) coordinator for technical scrutiny of Pradhan Manthri Gram Sadak Yojana projects in the state

SAGA UNIVERSITY, JAPAN (1992-95)

- (viii) April 1992 to January 1995
Employer: Faculty of Science and Engineering, Saga University, Japan
[Attached to Institute of Lowland Technology (presently Institute of Lowland and Marine Research), Saga Uni., Japan]
Positions held: Post-doctoral fellow/Research Associate/Assistant Professor

ASIAN INSTITUTE OF TECHNOLOGY (AIT), BANGKOK, THAILAND (1987-92)

- (ix) January 1992 to March 1992
Employer: Asian Institute of Technology, Bangkok, Thailand
Position held: Senior Research Associate under USAID project on WWMSE
- (x) May 1987 to December 1991
Employer: Asian Institute of Technology, Bangkok, Thailand
Position held: Student Research Associate under USAID project on WWMSE

B.M.S. COLLEGE OF ENGINEERING, BANGALORE 1984-87

(xi) September 1981 to May 1987

Employer: M/s Gerame Consulting Engineers, Shankarpuram, Bangalore - 4
Position held: Part-time Design Engineer (Civil Engg.) [involved in design of piled foundation for Delhi RCC TV tower, multistoried buildings, steel str., industrial str., overhead water tanks etc.]

(xii) January 1984 to May 1987; Employer: B.M.S. College of Engg., Bangalore-70
Position held: Senior Lecturer in Civil Engineering (also taught in evening college)

M.S.R.I.T., BANGALORE, 1981-84

(xiii) September 1981 to December 1983; Employer: MSRIT, Bangalore
Position held: Lecturer in Civil Engineering

M/S GAMMON INDIA LTD. MUMBAI 1980-81

(xiv) October 1980 to September 1981; Employer: M/s Gammon India Ltd.
Position held: Site Engineer [Mahathma Gandhi Sethu, Patna, Bihar]

I.I.T. MADRAS, JULY-OCT 1980

(xv) Research Associate, Dept. of Civil Engg. IITM Chennai (Supervisor: Prof. K. S. Sankaran)

(C) MEMBERSHIP OF PROFESSIONAL ORGANISATIONS

- (i) Life Member of the Indian Geotechnical Society (IGS) [LM1369]
- (ii) Life Member of the Indian Society for Technical Education (ISTE) [LM 20500]
- (iii) Life Member of the Institution of Engineers (India)[IEI] [M112336/4]
- (iv) International Society of Soil Mechanics & Geotechnical Engg. [ISSMGE]
- (v) International Geosynthetics society [IgS][Membership No. 1983]
- (vi) Geotech. Engg. International Resources Centre [GEIRC]
- (vii) Asian Society for Environmental Geotechnology [ASEG]
- (viii) Southeast Asian Geotechnical Society [SEAGS]
- (ix) International Association of Lowland Technology [IALT], Membership No.1409138
- (x) Life Member of the Indian Society for Disaster Risk Reduction (ISDRR) [LM A0535]
- (xi) Alumni Association of Asian Institute of Technology, Bangkok, Thailand
- (xii) Life Member of the Administrative Staff College of India Association (ASCI Association), Bella Vista, Hyderabad 500082, Membership No. Prg/09-10/1/10/36731 since 26th May 2009
- (xiii) Life Member of the Asian Center for Engineering Computations and Software (ACECOMS),AIT Bangkok, Thailand [Membership No.D51-0849-0899]
- (xiv) Life Member of the Kodagu, Dakshina Kannada and Udupi Engineers' Association, Mangalore
- (xv) British Geotechnical Association (Institution of Civil Engineers - ICE) Membership No. 61884254
- (xvi) Life Member of the Indian Roads Congress (LM-36767)

(D) HONOURS, AWARDS AND ACCOMPLISHMENTS

- (i) Awarded 'Best Student of the Year 1970-71', Vijaya High School, Jayanagar, Bangalore-11, January 1971.
- (ii) Obtained first class (distinction) and a top rank in Bangalore University in all ten semesters of BE (Civil) - Bangalore University, 1973-78.
- (iii) Awarded Japanese Government scholarship for doctoral studies at the Asian Institute of Technology (AIT) , Bangkok, Thailand. Subsequently, invited by Japanese Government to do post-doctoral research (at Institute of Lowland Technology, Saga University) and teaching (at Saga University) Japan, 1992-95.
- (iv) Co-investigator of USAID funded project (US\$150000) on Mechanically Stabilized Earth (MSE) along with Prof. D.T. Bergado, Prof. A. S. Balasubramaniam (both of AIT) and Prof. L. R. Anderson of Utah State university, USA [1988-1992].
- (v) IGS-Z -Tech(I) Pvt. Ltd. Biennial Award (1998-99) for the Best Paper on "Geosynthetics and Allied Construction Products" (Award instituted by the Indian Geotechnical Society). Paper entitled "Reinforced Granular Bed on Poor Filled-up Shedi Ground" authored by R. Shivashankar and ACS Reddy. Award received at IIT Bombay, Mumbai during IGC2000.
- (vi) Distinguished Service Award by NITK Alumni Association, Golden Jubilee Celebrations of NITK (6th August 2009 to 6th August 2010) [signed by NITK Director and NITK Alumni Association President]
- (vii) As Chairman of Center for continuing Education (2002-2008), was able to coordinate a number of courses for working professionals, especially for engineers of PMGSY, KRCL etc.
- (viii) Chaired a discussion session during GeoAfrica2013 conference, at Accra, Ghana
- (ix) As Placement Officer, achieved good success in improving the placement statistics of the Institute 2011-2014
- (x) NBA-AICTE expert committee member in Civil Engineering
- (xi) Delivered Keynote lecture "Geotechnical Engineering with Geosynthetics - An Overview", 3rd International Engineering Symposium (IES 2013) at Kumamoto University, Japan, March 4-6, 2013.
- (xii) Invited to Geosynthetics Research Institute, Drexel University, Folsom, Philadelphia, USA, for interaction with Prof. Robert M. Koerner - Director of Geosynthetics Research Institute, May 2013.
- (xiii) Invited to teach a UG course on 'Foundation Engineering' at Thuy Loi University, Vietnam, conducted in association with the University of Arkansas, USA (July 2014).
- (xiv) Chaired a general session GS 10-3 on Earthquake Engineering and Soil Dynamics, 14th International Conference of the International Association for Computer Methods and Advances in Geomechanics (IACMAG2014) at Kyoto, Japan, September 22-25, 2014 [IACMAG founder and Chairman: Prof. C. S. Desai]
- (xv) Selected as 'Conference Chair' for 10th International Symposium on Lowland Technology (ISLT2016), Jointly to be organized by NITK Surathkal, IISc Bangalore and International Association of Lowland Technology (IALT) and Institute of Lowland and Marine Research (ILMR), Japan, to be held during September 2016.
- (xvi) Successfully guided ten doctoral students so far, on various topics of geotechnical engineering. Also guided about 62 MTech theses. Published about 176 papers in Journals and Conferences.
- (xvii) Guest Editor for a special issue on 'Geosynthetics', SEAGS-AGSSEA Journal: 2018 -2019

(2) PEDAGOGY

(A) SUBJECTS TAUGHT:

- Basic Geomechanics
- Foundation Engineering
- Soil Reinforcement Techniques
- Ground Improvement Techniques
- Soil Mechanics (UG)
- Applied Soil Engineering (UG)
- Design of foundations and earth retaining structures (UG elective)
- FEM for geotechnical engineers
- Soil Mechanics laboratory (UG)
- Geotechnical Engineering Laboratory (UG)
- Computational Geomechanics Lab (PG)

(B) RESEARCH INTERESTS

- Soil behaviour, basic soil mechanics
- Pile foundations
- Soil-structure Interaction
- Ground Improvement
- reinforced soil structures
- Geosynthetics Engineering
- Foundation Beds (granular, reinforced, Prestressed reinforced granular beds)
- Slope Engineering
- Erosion Studies and bioengineering

(C) EVALUATION OF TEACHING

Very good teaching evaluations on all courses

(D) PEDAGOGICAL DEVELOPMENT (CHAPTERS IN BOOKS/CITATIONS AND OTHER PUBLICATIONS)

(i) Shivashankar, R., Miura, N. and Madhav, M.R. (1998), "Reinforced Granular Bed on Soft and Subsiding Ground", Chapter 14 of 'Improvement of Soft Ground – Design, Analyses and Current Researches' Edited by N. Miura and D. T. Bergado, Balkema Publishers, pp.168-182.

(ii) Shivashankar R. et al. (1993) "Shear Layer, Confinement and Surcharge Method" [cited in IGS Annual Lecture by M.R. Madhav, Indian Geotechnical Journal, Vol. 28, No.1, January 1998, pp33-39].

(iii) Shivashankar R. et al. (1993) "Bearing Capacity Improvement in Soft Soils" [Cited in Section 4.5: pp. 54 - 57. "An Introduction to Soil Reinforcement and Geosynthetics" by G.L. Sivakumar Babu, Universities Press, 2006 edition].

(E) PARTICIPATION IN WORKSHOP/MEETS FOR IMPROVEMENT OF TEACHING/OTHERS AND ATTENDING CONFERENCES

- (i) Participated in Faculty Development Programme conducted by CCE, KREC, Aug. 14-19, 1995.
- (ii) Participated in National workshop on "Reinforcement of ground and slopes", **IIT Kanpur**, August 21-22, 1998.
- (iii) Participated in short term course at **IIT Madras** on "Finite Element Techniques for Geotechnical Engineers" Nov. 30 to Dec. 04, 1998.
- (iv) Participated in a seminar on "Motivation and Team Building for KREC Faculty", November 12-13, 1999, organized by the Departments of Computer Engineering and ECE at KREC, Surathkal. Supported by Ministry of IT, GOI. Conducted by Sri MSS Varadan, Om Consultants (India) Pvt. Ltd., Bangalore
- (v) "Geotechnical Update for the next Decade", Workshop at **IIT Kanpur**, March 17-18, 2000. Participated in panel discussions on upgrading syllabi for UG and PG courses in geotechnical engineering at IITs, RECs and other engineering colleges in India. Participants were from IISc, IITs, RECs and other engineering colleges
- (vi) Participated in the workshop on wetland monitoring and management held on February 02, 2005, sponsored by TEQIP, Dept. of Applied Mechanics and Hydraulics, NITK Surathkal.
- (vii) Attended and presented a paper at GEOPRACTICE-2005, National Conference on Case Studies in Geotechnical Engineering, July 25-26, 2005, I.I.Sc.(Bangalore)
- (viii) Participated as a delegate in the workshop on the topic "Intellectual Property Rights" on 20th March 2008 held at SDM College Conference Hall, Mangalore [Organized by KSCST, Bangalore; Karnataka Council for Technical Upgradation; SDM PG Centre for Mgmt Studies & Research, Mangalore; Karnataka Chamber of Commerce and Industry, Mangalore, District Industries Centre, Mangalore and TIFAC, DST, GOI, New Delhi]
- (ix) Completed short course of 10.5 Contact Hours on 'Soil Dynamics in Engineering Practice', Presented by Department of Civil, Architectural and Environmental Engineering (Distance and Continuing Education), Missouri University of Science and Technology (MUST) [erstwhile University of Missouri Rolla (UMR)], USA, August 2008. Course Instructors: Prof. Shamsher Prakash, MUST, USA and Prof. Ahmed Elgamal. Uni. of California, San Diego, USA. Course conducted at the Marriott Hotel, **Arlington, Washington, USA** (Support from TEQIP).
- (x) Attended Sixth International Conference on case histories in Geotechnical Engineering and Symposium in honor of Prof. James K. Mitchell, at Arlington, VA, USA (Organized by Prof. Shamsher Prakash), August 11-16, 2008, *(Presented the paper at the Conference in **Washington DC, USA**, with support from TEQIP).*
- (xi) Visited Pennsylvania State University, USA, for research interaction, 17-19 August 2008 - facilitated signing of MOU between NITK and PSU
- (xii) Attended the 12th International Conference of International Association for Computer Methods and Advances in Geomechanics (IACMAG), 1-6 October 2008, **Goa**, India.

(xiii) Participated in the Programme on "Educational Leadership and Administrative Law for Vice-Chancellors and Senior Level Educational Managers" organized by Administrative Staff College of India (**ASCI**), Bella Vista, **Hyderabad**, May 25 - 27, 2009. Programme Director: Prof. Usha Vyasulu Reddy.

(xiv) Attended TCS Sangam at Hyderabad as Dean (R&D) (on behalf of NITK Director), Nov. 27-28, 2009

(xv) Participated in a Mission10X workshop conducted by Wipro (conducted by WIPRO & ISTE) at NITK Surathkal, 17-21 May 2010.

(xvi) Visited Jawaharlal Nehru Centre for Advance Scientific Research (JNCASR), Bangalore, for research interaction, 25th May 2010.

(xvii) Attended Zinnov's meet at Bangalore 14-19 July 2010

(xviii) Successfully completed a workshop on "High Impact Teaching Skills", (Attested by Dale Carnegie & Associates, Inc. Trainer and WIPRO), conducted by WIPRO and Dale Carnegie Training at NITK, Mission10X, 17-18 May 2010.

(xix) As Dean (R&D) attended "Workshop for Organizers of INSPIRE Internship Camps", under INSPIRE programme of DST, GOI at Yashada, Indian Institute of Science Education and Research (IISER), Pune, 23 September 2010.

(xx) Visited University of Newcastle, University of New South Wales and University of Western Australia, Sydney, Australia, May 5-9, 2011, for research interactions

(xxi) Attended the 13th International Conference of International Association for Computer Methods and Advances in Geomechanics (IACMAG), 9-11 May 2011, **Melbourne, Australia** (from CPDA support).

(xxii) Attended ZS India's University Relations Meet, 23-24 June 2011, ZS Associates India Pvt. Ltd., Vatika Business Park, Gurgaon.

(xxiii) Attended two day NBA orientation workshop at RVCE Bangalore, arranged by AICTE, 1-2 July 2011.

(xxiv) Attended Quest Global's Colloquium at Bangalore, 6 March 2012

(xxv) Attended SAP India's 'Faculty Day' at SAP campus Bangalore, 15-16 March 2012

(xxvi) Participated in TPO meet from Karnataka and Kerala Institutions at TCS Bangalore on March 30, 2012 at TCS Pioneer Building ITPL, Whitefield, Bangalore - 'Sparsh' Building Careers ... Changing Lives.

(xxvii) Attended Informatica's TPO meet at Bangalore on 3rd June 2012

(xxviii) Attended Maruti Suzuki Ltd's TPO meet on 9.6.2012 at Gurgaon, Delhi

(xxix) Attended *International Symposium on Sustainable Geosynthetics and Green Technology for Climate Change (SGCC)* 2012, Bangkok, Thailand, June 20-21, 2012, Organized by IgS Thailand Chapter, Southeast Asian Geotechnical Society and ACSIG

(xxx) Attended Zinnov's meet at Bangalore 12 July 2012

(xxxi) Attended "Sasken's Day Out" 20th July 2012, Sasken Communication Technologies Ltd. Bangalore

(xxxii) Delivered Keynote lecture "Geotechnical Engineering with Geosynthetics - An Overview", 3rd International Engineering Symposium (IES 2013) at Kumamoto University, Japan, March 4-6, 2013. Travel support provided by Kumamoto University.

(xxxiii) Attended 7th Intl. Conf. on Case Histories in geotechnical Engg., May 1-4, 2013, Wheeling, Illinois, Chicago, USA [Conducted by Missouri University of Science and Technology (MUST) – Prof. Shamsheer Prakash] {presented my paper No.1.01b}. Travel support provided by DST GOI

(xxxiv) Visit to University of Illinois at Chicago (Geotechnical Engineering Laboratories) and research interaction with UIC faculty, May 6-7, 2013

(xxxv) Visited Geosynthetics Research Institute, Drexel University, Folsom, Philadelphia, USA and interacted with Prof. Robert M. Koerner - Director of Geosynthetics Research Institute.

(xxxvi) Attended 2nd African Regional Conference on Geosynthetics, GeoAfrica 2013, Accra, Ghana, Nov. 18-20, 2013. presented a paper. Travel support provided by TEQIP - II of NITK.

(xxxvii) Attended Indian Geotechnical conferences (annual) at Bangalore (1995), Allahabad (2002), Kolkata (1999), Mumbai(2000), Roorkee (2013), Kakinada (2014), Pune (2015). At Mumbai, in the year 2000, received best paper award - for best paper published the Indian Geotechnical Society. (M/S Z-Tech Biennial Award).

(xxxviii) visited CPRI Bangalore several times for research interactions (for conducting shake table tests - BRNS sponsored project)

(xxxix) Participated in TPO meet from Karnataka and Kerala Institutions at TCS Bangalore on Aug.29-30, 2013 at TCS Pioneer Building ITPL, Whitefield, Bangalore - 'TCS Sparsh 2013-14'.

(XL) Attended Indian Geotechnical conference at IIT Roorkee in Dec .2013, presented 2 papers.

(xLi) Invited speaker at National workshop on Geotechnical Engineering and Transportation Engineering, Feb.3-4, 2014, at LBS Institute of Technology for Women, Trivandrum

(xLii) Attended 1st annual conf. on Innovations and Developments in Civil Engg. (ACIDIC) at NITK, May 19-20, 2014. Presented a paper titled "Electrical resistivity applications- a versatile testing technique in civil engineering". *Also Chaired one of the sessions on Geotechnical Engg.*

(xLiii) Attended Geo-Shanghai 2014 conference at Shanghai, China, May 26-28, organized by Tongji University and presented a paper.

(xLIV) Attended the Intl. conf on computing in Civil and Building Engineering (ICCCBE2014), June 23-25, 2014, Florida, USA.

(XLV) Attended 14th Intl. Conference of the International Association for Computer Methods and Advances in Geomechanics (IACMAG2014) at Kyoto, Japan, Sep.22-25, 2014, presented 3 papers, Chaired a general session GS 10-3 on Earthquake Engg. & Soil Dynamics.

(xLvi) Attended International Symposium on Lowland Technology (ISLT 2014) at Saga University, Saga, Japan, September 29 to October 01, 2014. Presented two papers.

(xLvii) Attended Indian Geotechnical conference at JNTU Kakinada in December 2014, presented a paper.

(xLviii) Attended and presented paper at the International Conference on Geotechnical Engineering 2015 (ICGE2015) at Colombo, Srilanka, August 10-11, 2015, Organized by SLGS, SIMSG and ISSMGE.

(xLix) Attended and presented paper at the International Conference on Soft Ground Engineering - ICSGE2015, at Singapore, 3-4 December 2015, organized by the National University of Singapore (NUS) on behalf of the Geotechnical Society of Singapore (GEOSS).

(L) Attended and presented paper at the 53rd Indian Geotechnical Conference at the College of Engineering at Pune (COEP), 17-19 December 2015 organized by the Indian Geotechnical Society.

(Li) Attended the North-eastern States Geotechnical Congress 2016 (NE-GEOCONGRESS 2016) at the National Institute of Technology, Agartala, Tripura, 22 January 2016 (keynote speaker)[Prof. Deepankar Choudhuri of IITB was the other keynote speaker].

(3) ORGANIZING CONFERENCES/ TRAINING COURSES/SEMINARS / WORKSHOPS/ORGANIZING COMMITTEE MEMBER

As Chairman of Centre for Continuing Education (CCE) and later Dean (R&D) coordinated conduct of a number of STTP (summer/winter schools), conferences, seminars, workshops etc. [more than 60 programmes] across all departments of NITK. Coordinator for many PMGSY training programmes for PWD engineers.

Organizing Committee Member of ILT'92 on POLD (Institute of Lowland Technology 92 on Problems of Lowland Development), Nov. 16-17, 1992, Saga University, Japan

(i) Course Coordinator - for refresher course for PWD Engineers on "Foundation in expansive soils", September 9 to 14, 1996, organized by CCE, KREC and sponsored by KERS Mysore.

(ii) Conducted a one day National Seminar on "Recent Developments in Geotechnical Engineering" through IGS Surathkal Chapter, 22-5-1998 (Prof.H.R. Sreekantiah, Prof. R.K.Yaji and Dr.R. Shivashankar - Organizing Secretary)

(iii) Conducted a one day seminar on "Fly Ash, its Properties and Applications", through IGS Surathkal Chapter, 24-4-1999 (Prof.H.R. Sreekantiah, Prof. R.K.Yaji and Dr.R. Shivashankar)

(iv) Joint Organizing Secretary for one day seminar on "Effects of Geotechnical Properties of Raw Earth on the Engineering Properties of Manufactured Tiles and Bricks in and around Dakshnina Kannada", conducted by IGS - Surathkal Chapter, October 31, 2000

(v) Organizing Committee member '6th Asian Young Geotechnical Engineers Conference (Next generation geotechnics)', organized by IISc Bangalore, 15-16 Dec. 2008

(vi) Organizing Committee member 'Indian Geotechnical Conference', organized by IISc Bangalore, 17-19 Dec. 2008

(vii) As Dean (R&C), Organised INSPIRE winter science camp for students of XI standard and I year PUC at NITK Surathkal, Dec.29, 2009 to January 02, 2010.Sponsored by DST GOI. About 175 students participated.

(viii) Conducted a two day workshop on "Ground Improvement Techniques and use of Geosynthetics" [including M.Tech (Geotechnical Engineering) curriculum workshop] during September 05-06, 2013, with support from TEQIP II [Co-cordinators were Prof. Sitaram Nayak and Dr. B.M. Sunil; Resource persons were (i) Prof. D.T. Bergado from AIT Bangkok, Thailand (ii) Prof. R. Kitamura from Kagoshima University, Japan (iii) Prof. J. N. Mandal from IITB (iv) Prof. K. Rajagopal from IITM and (v) Prof. T. N. Singh from IITB.

(ix) Conducted a one day curriculum workshop for M.Tech in Geotechnical Engineering, September 2013, supported by TEQIP

(x) Organizing committee member of DFI-NITK workshop on 'Recent trends in piling and Ground Improvement' at NITK, sponsored by TEQIP-NITK and Simplex Infrastructures Ltd. (Chennai), 31 July 2015.

(xi) Course Coordinator - for refresher course for PWD Engineers on "Structural Construction in B. C. Soil, Hard Soil, Rock & Quality Management", January 04 to 08, 2016, organized by CCE, KREC and sponsored by KERS Mysore.

(xii) Organizing Chair for International Symposium on Lowland Technology (ISLT 2016) at Mangalore, Organized by NITK Surathkal, 15-16 September, 2016. [Co-chair is Prof. M. S. Mohan Kumar of Department of Civil Engineering, IISc, Bangalore]

(xiii) National Steering Committee member 'International Geotechnical Engineering Conference on sustainability in geotechnical engineering practices and related urban issues', organized by IGS Mumbai Chapter, 23-24 Sep. 2016

(4) INVITED LECTURES, KEYNOTE LECTURES AND SPECIAL LECTURES / CHAIRING SESSIONS etc.

(i) Invited Lecture "Reinforced Earth and Geosynthetics" Department of Civil Engineering, **IITM**, January 1993.

(ii) "Reinforced Granular Bed on Soft and Subsiding Ground", SSP Geotechnics (Geotechnical Consultants), **Kuala Lumpur, Malaysia**, Dec 09, 1997.

(iii) Invited Lecture on "Reinforced Granular Bed over Piles in Clay" , Short Course on 'Soft Ground Improvement: Design, Analysis and Current Research' (60th birthday celebration of Prof. Norihiko Miura of Saga University, Japan), organized by Geotechnical Engineering International Resources Centre (GEIRC), at **AIT Bangkok, Thailand**, 11-13 December 1997.

(iv) "Mechanically Stabilized Earth (Reinforced Soil Structures)", GEIRC, **AIT Bangkok, Thailand**, December 15-17, 1997.

(v) AICTE/ISTE winter school on "Site Investigation Techniques for civil engineering constructions and development of engineering geology and geotechnology in India" at **KREC**, Dec.29,1997 to January 10, 1998. Lectured on "Ground Improvement techniques for on-shore structures" and "Our environment and geotechnology".

- (vi) "Welded wire Mechanically Stabilized Earth", Lecture delivered at the National Workshop on Reinforcement of Ground and Slopes, IGS Golden Jubilee year Celebration, IGS Kanpur Chapter, **IIT Kanpur**, Aug 21-22, 1998, pp.86-93.
- (vii) "Foundation Problems in Expansive Soils" , AICTE short term course on expansive soils at Basaveshwara College of Engineering, **Bagalkot**, February 7-19, 2000.
- (viii) AICTE/ISTE winter school short term training programme on Engineering Geology and Geotechnology role in country planning and development at KREC, December 27, 1999 to January 08, 2000. Lectured on "Our Environment and Geotechnology".
- (ix) "Geotechnical Update for the next Decade", Workshop at IIT Kanpur, March 17-18, 2000
- (x) "Geosynthetics in Civil Engineering", Civil Engineering Association, **KVGCE, Sullia**, May 10, 2000.
- (xi) Served as Judge to evaluate student projects (Project Exhibition 2001) in Civil Engineering, **MIT Manipal**, 24th May 2001.
- (xii) "General Review of Foundations for Structures", One day workshop on 'Civil Engineering in Cashew Industry', Organized by KREC-STEP, Jan 03, 2002.
- (xiii) Cochaired a Session on Environmental Geotechnology during the National Conference on Case Studies in Geotechnical Engineering, July 25-26, 2005, **I.I.Sc.(Bangalore)** [keynote lecture by Dr.Ing.Erwin Gartung of LGA Geotechnical Institute, Nuremberg, Germany on "Landfill Covers – Field Tests for the Evaluation of the Performance of Mineral Cover Systems"; Chair: Prof. R. Rama Rao].
- (xiv) Chaired a session (along with Prof. Krishna Reddy of University of Illinois at Chicago, USA) at International Conference on Infrastructure Development on Expansive Soils (INDEX 06) 1-3 February 2006 at **Erode**, Tamil Nadu, India.
- (xv) "Application of Geosynthetics in Civil Engineering" and "Concepts and Design of Soil Nailing Systems, and use of Natural Geotextiles" 5 days STTP on 'Application of Reinforced Earth in Civil Engineering' ,Lectures delivered at **NMAMIT Nitte**, June 2nd - 6th, 2008 (also delivered the inaugural address on June 2, 2008 and valedictory address on June 6, 2008).
- (xvi) Invited speaker at *Piling and Deep Foundations Conference 2010* at Hyatt Regency, **Mumbai**, Oct 25-27, 2010, Organized by IQPC (International Quality and Productivity Centre, www.iqpc.ae) "Geotechnical and Foundation Practices in Coastal Karnataka".
- (xvii) "Recent Developments in the areas of Geotechnical and Transportation Engineering", Keynote address during National Conference on Recent Developments in Civil Engineering (RDCE - 2011), **MIT Manipal**, 14th January 2011
- (xviii) Served as resource person (lecturing) "Ideas on knowledge sharing and future guidance for engineering students" at a one day workshop on "Knowledge Sharing and Future Guidance" (for engineering/diploma students in the locality) at **Govinda Dasa College, Surathkal**, 25th December 2011, on behalf of Shree Guru Charitable Trust, Surathkal.
- (xix) Invited special speaker at "Geosynthetics Applications: Some Research Studies and Some Case Studies", International Symposium on 'Sustainable Geosynthetics & Green Technology for Climate Change (SGCC 2012)' [Retirement Symposium for Prof. D. T.

Bergado], [The Symposium was hosted by ACSIG and IGS-Thailand and co-organized by Suranaree University of Technology (SUT) and SEAGS under the auspices of the International Geosynthetics Society (IGS)]. 20 and 21 June 2012, Bangkok, Thailand (funding from CPDA)

(xx) Invited Lecture "Geosynthetics for Ground Improvement and Stability of Slopes", at the 2 day workshop on "Application of Optimization Techniques for Slope Stability Analysis and Recent Methods for Stabilization of Slopes" NMAMIT, Nitte, 30-31 July 2012 [followed by valedictory function address].

(xxi) Technical Talk "Stability of Slopes in Constructions", 10th October 2012, Organized by Association of Consulting Civil Engineers (ACCE) - Mangalore, sponsored by ACC Cements, venue: Lions Club, Mangalore.

(xxii) Invited speaker at the Symposium on Geotechnical Practices (Geopractices 2012) at JNTUH College of Engineering, **Hyderabad**, India, November 10, 2012

(xxiii) "Geotechnical Engineering Practices: through case studies", A3C-12 Awards, Convention & Consultants Colloquium, Mangalore, India, Association of Consulting Civil Engineers, Mangalore Chapter, January 11-12, 2013.

(xxiv) "Geotechnical Engineering with Geosynthetics - An Overview", Keynote lecture, 3rd International Engineering Symposium (IES 2013) at Kumamoto University, Japan, March 4-6, 2013, Organized by Kumamoto Uni. and NITK Surathkal

(xxv) "How Civil Engineers help shape the World (Earth)? A Geotechnical Engineering perspective" organized by The Institution of Engineers (I), Mangalore Local Centre; Institution of Valuers, Mangalore Branch; Kodagu, DK and Udupi Engineers Association, Earth Day 2013 lecture, April 23, 2013

(xxvi) "Geotechnical Engineering with Geosynthetics – Current Practices and Research", Lecture given to graduate students of Civil Engineering at University of Illinois at Chicago, USA (during a visit to that university at invitation of Prof. Krishna Reddy, including for research interaction), May 6, 2013.

(xxvii) Technical Talk "Earth Retention Systems", 04th July 2013, Organized by Association of Consulting Civil Engineers (ACCE) - Mangalore, sponsored by ACC Cements, venue: Lions Club, Mangalore.

(xxviii) Technical Talk "Use of Case Histories to enhance Practical Geotechnical Engineering", delivered at Vivekananda College of Engineering, Puttur, on 19th September 2013, as a part of series of lectures organized by ACCE Mangalore at different venues and sponsored by RAMCO cements

(xxix) Technical Talk "Strength of soils vis-a-vis strength of rocks from point of view of foundation designs", delivered at NITK Surathkal, on October 02, 2013, Two day workshop on 'Recent Developments in Rock Mechanics and Ground Control', organized by Department of Mining Engineering, NITK Surathkal.

(xxx) Technical talk "Case histories in Geotechnical Engineering and Forensic Geotechnical Engineering", National Seminar on Recent Advances in Geotechnical and Transportation Engineering, Feb. 3 - 4, 2014, Dept. of Civil Engineering, LBS Institute of Technology for Women, Poojappura, Trivandrum

(xxxix) Technical talk "Geo-synthetics in slope engineering", one day workshop on "Research Avenues and advances in Geotechnical Engineering" 26 February 2014, Alva's Institute of Engineering and Technology, Moodbidri

(xxxvii) Technical talk on 3 April 2014, "Geotechnical Engineering, Foundation Engineering, Slope Engineering and Geosynthetics Engineering", Short term course on "Advances and latest Developments in Mining Geology and Rock Mechanics (STCMGRM - 2014)" during April 2-4, 2014, Organized by Department of Mining Engineering, NITK Surathkal.

(xxxviii) Attended First annual conference on Innovations and Developments in Civil Engg. (ACIDIC) at NITK, May 19-20, 2014. Presented a paper titled "Electrical resistivity applications- a versatile testing technique in civil engineering". Also *Chaired one of the sessions on Geotechnical Engg.*

(xxxiv) Special lecture on "Ground Improvement Techniques", on Wednesday 3rd September 2014 at Department of Civil Engineering, NITK Surathkal to the Karnataka PWD & Irrigation Dept. engineers, during the five day refresher course on 'Design, Construction, Maintenance of all weather roads' organized during 1-5 September 2014, sponsored by the Engineering Staff College, KR Sagara, organized by the Centre for Continuing Education at NITK.

(xxxv) Special lecture on "Road Disasters: Geotechnical aspects", on Monday 15th September 2014 at NITK Surathkal, during the three day workshop on 'Mitigation of Road disasters' organized during 15-17 September 2014, sponsored by TEQIP, NITK; organized by the Centre for Disaster Risk reduction and Dept. of Civil Engg., NITK.

(xxxvi) Attended 14th International Conference of the International Association for Computer Methods and Advances in Geomechanics (IACMAG2014) at Kyoto, Japan, September 22-25, 2014, Chaired a general session GS 10-3 on Earthquake Engineering and Soil Dynamics, on 24-9-2014, 4pm to 7pm, at the Kyoto convention Centre.

(xxxvii) Special invited lecture (as resource person) on "Soil Mechanics for aqua farms", on Friday 14th November 2014 at College of Fisheries; Karnataka Veterinary, Animal and Fisheries Sciences University, Mangalore - 575001 during their ten day training programme on 'Recent developments in Engineering techniques for aqua farms' for officers of department of fisheries, Government of Karnataka. Training programme funded by NFDB, organized by Dept. of Fisheries Engineering and Technology.

(xxxix) Special lectures on (1) "Shear and settlement characteristics of soils", on Tuesday 20th January 2015 (2) "Ground Improvement Methods" on Wednesday 21st January 2015, at Department of Civil Engineering, NITK Surathkal to the Karnataka PWD & Irrigation Dept. engineers, during the five day refresher course on 'Soil Mechanics and Testing for Road Engineers' organized during 19-23 January 2015, sponsored by the Engineering Staff College, KR Sagara, organized by the Centre for Continuing Education at NITK.

(xL) Invited lecture on "A few tips about placement – random thoughts" given on 4th August 2015 at St. Joseph's Engineering College, Mangalore, during their Placement orientation for final year Civil Engg. Students (first batch of graduating students).
www.sjec.ac.in/event.php?eventId=183

(xLi) Delivered lecture on "Design of Pile Foundations" during DFI-NITK workshop on 'Recent trends in piling and Ground Improvement' at NITK, sponsored by TEQIP-NITK and Simplex Infrastructures Ltd. (Chennai), 31 July 2015

(xLii) Delivered lecture on "Forensic Geotechnical Engineering" at the workshop on 'Computational Geotechnics and Soil Dynamics' on 25th November 2015 at LBS Institute of Technology for Women at Trivandrum.

(xLiii) Keynote lecture on "Geotechnical Practices and Forensic Geotechnical Engineering" at the North-eastern States Geotechnical Congress 2016 (NE-GEOCONGRESS 2016) at the National Institute of Technology, Agartala, Tripura, 22 January 2016.
[www.http://nitaonline.nita.ac.in/nescg2016/](http://nitaonline.nita.ac.in/nescg2016/)

(xLiv) **Chaired a general session** (Session 1a) on 22-1-2016, 2pm to 4pm, at the NES GEOCONGRESS 2016 held at National Institute of Technology, Agartala, Tripura, India

(xLv) Invited Lecture on " Ground Improvement and Geosynthetics Engineering", Lecture Programme of Civil Engineering Division, The Institution of Engineers' Tripura State Centre [IEI (TSC)], on 23rd Jan 2016 at the lecture hall of IEI building , Pandit Nehru Complex, Gurkhabasti, Agartala, Tripura conference hall, 6-30 pm to 7-30 pm. (Prof. Deepankar Choudhuri of IITB was the other invited speaker on topic "Modern design techniques for earth retaining structures under earthquake conditions". Er. Sukamal Bhattacharya, FIE, Chairman of Civil Engg. Division [IEI (TSC)] presided)

(xLvi) Invited Lecture on "Recent Developments in Geotechnical Engineering" delivered at the Shree Devi Institute of Technology (SDIT), Airport Road, Kenjar, Mangalore, on 9th March 2016.

(xLvii) Invited Lecture on "Recent Developments in Geotechnical Engineering" delivered during the 'Workshop on Geotechnical Investigation for Structural Engineering' held at RYMEC, Ballari, March 31-April 02, 2016.

(xLviii) Chaired a session during International Conference on Soil and Environment during 22-23 July 2016 at the Indian Institute of Science, Bangalore. Organized by Indian Geotechnical Society Bangalore Chapter and the Department of Civil Engineering at IISc Bangalore.

(5) SERVING ON VARIOUS ADVISORY/EXPERT/ EXAMINATION/ ACADEMIC COMMITTEES etc.

(i) Served on the Executive Board of the Committee for International Geosynthetic Society India (elected by the general body) [2001-2002]

(ii) AICTE Expert Committee member for starting new PG courses in and around Coimbatore, Tamil Nadu, March 2004.

(iii) NBA-AICTE Expert Committee member for accreditation of UG/PG courses in Civil Engg. in Tamil Nadu, Maharashtra, Andhra Pradesh, Goa

(iv) As a team (expert committee) member of Local Inquiry Committee (LIC) to several colleges in Karnataka (such as recognition/continuation of permission to offer Ph.D. and M.Sc. (Engg.) by research programmes of VTU - continuation

(v) External expert (university faculty selection committee) for promotion interview of civil engineering faculty - for promotion to the post of Professors, MIT Manipal , 15th May 2007 to date.

(vi) Bangalore University selection committee member (for selection of Professors in faculty of Civil Engg.) 24.2.2008

(vii) Member/Adviser, UPSC panel of experts, February 2008 to date

(viii) Served as/serving as BOS/BOE member of VTU Civil Engineering Board (UG/PG) and Bangalore University [UG & PG, Doctoral (PRC)], MIT, CUSAT,

(ix) Senate Subcommittee Chairman for drafting guidelines for credit transfer at NITK

(x) UPSC selection committee September 2013, 14

(xi) Academic auditor for ongoing PhD research works at Karunya Institute of Technology, Coimbatore, March 25, 2014.

(xii) Member of Academic council of Basaveshwar Engineering College, Bagalkot, 2012-2016

(6) STUDENT RESEARCH/PROJECTS SUPERVISION

(A) Ph.D. Guidance so far:

- Guided 10 Ph.D. students so far in Geotechnical Engineering;
Presently guiding another 05 Ph.D. students

Ph.D. Research Supervision at KREC/NITK

S.No.	Name of Student	Reg. Year and Status	Thesis Title	Other Supervisor(s) , Name & Department	Completed/ Ongoing
01	Dr. Ramakrishne Gowda	August 2001 Part Time	Impact of Contaminants on Geotechnical Behaviour of Soil	-	Completed, Graduated in 2006
External Examiners: Dr. Abdel Malek Bouazza, Monash University, Clayton Campus, Victoria, Australia Prof. P.V. Sivapullaiah, IISc Bangalore					
02	Dr. S. Suresh Babu	Dec. 2001 Part Time	Some Studies On Foundations On Granular Beds Overlying Weak Grounds	-	Completed, Graduated in 2007
External Examiners: Prof. A. J. Valsangkar, Uni. of New Brunswick, Fredericton, Canada Prof. S. R. Gandhi, IIT Madras					
03	Dr. Arunkumar Bhat, K.	July 2000 Part Time	Studies On Stability Of Stratified Soil Slopes By Optimization Technique Using Generalized Procedure Of Slices	-	Completed, Graduated in 2008
External Examiners: Prof. Ryosuke Kitamura, Kagoshima Uni. Japan Prof. H. N. Ramesh, B'lore Uni.					
04	Dr. (Mrs) B.R. Jayalekshmi	January 2005 Part Time	Seismic Response Analysis Of Multistorey Frames Including Soil Structure Interaction	Prof. K. Venkataramana Dept. of Civil Engg.	Completed, Graduated in 2009
External Examiners: Prof. (Ms.) Judith Wang, Colorado School of Mines, CO, USA Prof. Pradeep Kumar Ramancharla, IIIT Hyderabad					
05	Dr. Ch. Nageshwar Rao	July 2005 Full Time QIP poly	Studies On Strength And Stiffness Characteristics Of Lateritic Soils For Pavement Subgrades	Prof. Varghese George Dept. of Civil Engg.	Completed, Graduated in 2009
External Examiners: Prof. Fwa Tien Fang, Director of Centre for Transportation Research, Dept. Of Civil Engg., NUS, Singapore, and Prof. S. K. Prasad, SJCE, Mysore					
06	Dr. Dheerendra Babu, M.	July 2008 Full Time QIP poly	Studies on behaviour of plain and reinforced stone columns in soft and layered soils	Dr. Sitaram Nayak Dept. of Civil Engg.	Completed, Graduated in 2011
External Examiners: Prof. Marolo C. Alfaro, Uni. of Manitoba, Canada Prof. Deepankar Choudhury, IITB					
07	Dr. Srinath Shetty, K.	August 2003 Full Time QIP	Experimentl investigations & artificial neural network modelling of strip footing on reinforced granular bed overlying weak soil	-	Completed Graduated in November 2013
External Examiners: Dr. A. Sako, Kagoshima University, Japan Prof. G. L. Sivakumar Babu, IISc, Bangalore					
08	Dr. Jayamohan Jayaraj	January 2010 Part Time	Prestressed geosynthetic reinforced soil structures	-	Completed Graduated in Nov. 2014
External Examiners: Prof. Jie Han, University of Kansas, USA Prof. B. Umashankar, IIT Hyderabad					
09	Dr. (Mrs) Jisha S. V.	July 2010 Full Time	The variation of stress resultants in foundation and chimney due to the effect of flexibility of soil	Dr. B. R. Jayalekshmi Dept. of Civil Engg.	Defended her thesis successfully Dec. 2014
External Examiners: Prof. Maria I. Todorovska, University of Southern California, USA Prof. G. Madhavi Latha, IISc, Bangalore					

10	Dr. (Mrs) Nalini Elizabeth Rebello	December 2010 Part Time	Studies on underground openings under static and dynamic loads	Prof. V.R. Sastry Dept. Of Mining Engg.	Defended her thesis successfully Sep/Oct 2015
External Examiners: Dr. Mohan Yellishetty, Monash University, Clayton, Australia Prof. T. N. Singh, IITB, Powai, Mumbai					
11	Mrs. Nayana Patil	July 2008 Part Time	Studies on Reinforced Granular Bed Overlying Weak Soil (tentative)	-	Proposal given on 29-3-2011 + 5 progress seminars given
12	Ms. Nimi Ann Vincent	July 2013 Full Time	Electrical resistivity studies on Geo-materials and construction materials	Prof. K. N. Lokesh Dept. of Civil Engg.	Proposal given + 3 progress seminars given
13	Ms. Biji Chinnamma Thomas	December 2013 Full Time	Slope stability studies of excavated slopes in lateritic formations including erosion studies on lithomargic clays	Prof. D. V. Reddy Dept. of Civil Engg.	Proposal given on 29-2-2016
14	Ms. Radhika M. Patel	July/Aug 2015 Full Time	Reinforced embankment-geocell-pile interaction at bridge approaches	Dr. B. R. Jayalekshmi	Course work just completed Proposal to be given
15	Ms. S. Anaswara	July/Aug 2015 Full Time	Interference studies on Reinforced foundation beds	-	Course work just completed Proposal to be given

**(B) SERVING/SERVED AS EXTERNAL EXAMINER/RPAC OR DTAC MEMBER
OF DOCTORAL STUDENTS**

S.No.	Name of Ph.D. student	College, University & (guide)	Thesis Title	External examiner/ DTAC/RPAC	Date
01	Ms. Jayasree, P.K.	School of Engg., CUSAT, Kochi, Kerala (Prof. K. S. Beena)	On geotextiles/RE	Ph.D qualifying exam	21 July 2007
02	M.T. Pratap Kumar	Bangalore Uni. (Prof. H.N. Ramesh)	Dynamic response of footings resting on finite sand stratum under vertical vibrations	External examiner to evaluate the thesis	Conducted exam during Feb/March 2010 at UVCE
03	S. Nageswara Reddy	Sri Venkateswara University, Tirupati (Prof. K. Nagendra Prasad)	Analysis and assessment of behaviour of fly ash - soil mixtures	Indian Examiner for adjudicating the thesis (thesis evaluation)	Report sent on 27-7-2010
04	G. Mahesh Kumar	SIT Tumkur, VTU (Prof. S. V. Dinesh & Prof. T Ganga-dharaiah)	Effect of fines content on the cyclic response of sandy soil	Examiner for pre-PhD comprehensive viva voce exam	Conducted viva voce exam on 30-8-2010 at SIT
05	Mrs. Asha U. Rao	MIT Manipal (Prof. N. Sabhahit)	Stability analysis of excavated slopes in laterite soil along coastal Karnataka	Doctoral scrutiny committee member (Subject expert)	June 2004 to Jan 2010
06	Mrs. Kurapati Rajyalakshmi	JNTU Kakinada (Dr. K. Ramu and Prof. M.R. Madhav)	Bearing Capacity of Reinforced Foundation Beds on Soft Ground	External (Indian) examiner to evaluate the thesis	Conducted exam on 30 August 2012
07	Dr. Shivakumar J. Nyamathi	Dept. of Applied Mechanics NITK (Prof. A. V. Hegde)	Characterising hydrological responses of coastal humid tropical wetlands	RPAC Member	2009-2010
08	Dr. Chetan, K.	Dept. of Civil Engg. NITK (Prof. Katta Venkataramana)	Studies on influence of infill on dynamic characteristics of RC frames	Chairman DTAC	March 2010
09	Dr. Chinnagiri Gowda	Dept. of Civil Engg. NITK (Prof. Katta Venkataramana)	Usage potential of welded wire fabrics as lateral reinforcement in RC frames and elements for seismic zones	Chairman DTAC	March 2010
10	Dr. Karra Ram Chandar	Dept. of Mining Engg. NITK (Prof. V. R. Sastry)	Study of influence of initiation system and initiation pattern on blast results	RPAC Member	Synopsis submitted July 2010
11	Dr. Purushotham G. Sarvade	Dept. of Civil Engg. NITK (Prof. Sitaram Nayak)	Studies on Characterization and stabilization of shedi soil (lithomargic clay)	Chairman DTAC	Viva voce exam held on 2nd Feb 2011
12	Dr. Ramesh Mithanthaya	Dept. of Civil Engg. NITK (Prof. A.U. Ravi Shankar)	Performance studies on enzyme stabilized soil	Chairman DTAC	Viva voce exam held on 15th Feb 2011
13	Naveenkumar, D.T.	Dept. of Civil Engg. NITK (Prof. K. Swaminathan)	Assessment of higher order shear deformation theories for stress and free vibration analyses of FGM plates	RPAC member	w.e.f. 28-3-2012
14	Sreebhash S. Kutty	Dept. of Mech. Engg., NITK (Prof. T.P. Ashok Babu)	CFD Analysis of Plate fin heat exchangers for boiling and condensation heat transfer coefficients	RPAC Member	w.e.f. 23-7-2012
15	Mr. B. Naveenchandra	Dept. of Civil Engg. NITK (Prof. K. N. Lokesh)	Application of Remote sensing and GIS in geology and tele-communications systems	DTAC member	August/Sept. 2012
16	Ms. Akshatha Shetty	Dept. of Civil Engg. NITK (Prof. Katta Venkataramana and Prof. K.S. Babunarayan)	Durability of Structures	RPAC Member	w.e.f. 27-8-2012 (Graduated)
17	Mr. Durga Prashanth CV12P03	Dept. of Civil Engg. NITK (Prof. A. U. Ravi)	Performance studies on recycled asphalt	RPAC Member	w.e.f. 1-1-2014

		Shankar)	Pavement (RAP) materials in bituminous mixes		
18	Mrs. Megha P. Arakeri	Dept. of IT(Prof. GRM Reddy	Development of CAD system for detection, classification, retrieval and 3D reconstruction of brain and liver tumors on MRI and CT images	DTAC member	Viva voce exam held on 13-12-2013
19	M. Kiran, M.	Dept. of IT(Prof. GRM Reddy)	Bio-inspired quality of service aware routing in mobile AD HOC networks	DTAC member	Viva voce exam held on 23-1-2014
20	Ms. Roopalakshmi, R.	Dept. of IT(Prof. GRM Reddy)	Content based video copy detection tracking and identification of movie pirates	DTAC member	Viva voce exam held on 23-1-2014
21	Kulkarni Kishor Sitaram Bhagayalaxmi	Dept. of Civil Engg. NITK (Prof. Subhash C. Yaragal and Prof. K.S. Babunaryan)	Analytical tools for strength prediction of thermally deteriorated HPC	DTAC Member	Viva voce exam held on 21 April 2014
22	PVSN Pavan Kumar	Osmania university, Hyderabad (Prof. M.R. Madhav)	Geosynthetic soil Earth Structures	External (Indian) examiner to evaluate the thesis	During September 2013
23	Mr. Babu S. Chawhan	VTU (BVBCET Hubli) [Prof. S. S. Quadri]	Analysis of statically and dynamically laterally loaded piles and simulation in multiple layers of cohesionless soil	Pre-PhD viva voce examination	9 August 2014
24	L. S. Manjunath	Dept. of Civil Engg. NITK (Dr. B.M. Sunil)	Use of stabilized iron ore tailings for bulk fill construction and replacement for fine aggregates in concrete	DTAC Member	Viva voce exam held on 23 Feb 2015
25	Muddaraju, H.C.	Bangalore Uni. (UVCE) [Dr. S. Gangadhara]	A study on the performance of footings in reinforced flyash beds under repeated loading	External examiner to evaluate the thesis	March 2015
26	Mrs. Meril George	School of Engg., CUSAT, Kochi, Kerala [Prof. K. S. Beena]	Studies on Landfill leachate Transportation and its impact on soil characteristics	External examiner to evaluate the thesis and conduct viva	28 April 2015.
27	Mr. Kandru Suresh	JNTUH (Prof. M.R.Madhav & Prof. E. Saibaba Reddy)	Analysis of creep resistance of granular pile reinforced ground	External examiner to evaluate the thesis	May-Aug. 2015
28	Mr. Sandi Kumar Reddy	Dept. of Mining Engg. NITK (Prof. V. R. Sastry)	Investigations into stability and development of design guidelines for barrier pillars in blasting gallery panels	DTAC Member	Viva voce exam held on 28 Oct 2015
29	Mr. Patan Ayub Khan	JNTUH (Prof. M.R.Madhav & Prof. E. Saibaba Reddy)	Consolidation of soft ground by vertical drains considering non-linear, overconsolidation and layer thickness effects	External examiner to evaluate the thesis	Nov 2015 - Feb.2016

DTAC = Doctoral Thesis Assessment Committee

RPAC = Research Progress Assessment Committee

(C) LIST OF M.TECH THESIS GUIDED SO FAR

- Guided about 50 M.Tech students (48 at KREC/NITK) in their theses work so far in Geotechnical Engineering; and 02 at BMSCE Bangalore (Jan 1984-May 1987) on super-plasticised concretes.

LIST OF M.TECH THESIS GUIDED AT KREC/NITK

Sl. No.	Title of thesis	Name of Student	Year of graduation
1	Some studies on Reinforced granular bed overlying shedi soil	A. Chandra Sekhar Reddy	1996
2	Soil cement Piles to stabilize shedi grounds	S. Kumar	1997
3	Improving Performance of granular piles in shedi ground	P. Bhuvan Prasad	1997
4	Model studies on compacted sand columns in shedi ground	C.S. Siva Kumar	1998
5	Soil-footing-superstructure interaction of space frames	C.P. Sunil Kumar	1999
6	Ground Improvement techniques for soft shedi ground	G. Krishnamurthy	1999
7	Soil-reinforcement interaction studies in case of steel grids in shedi soil	M. Santhosh Kumar	2000
8	Soil Nailing technique in shedi ground	Suresh Babu S.V.	2000
9	Some studies on blended shedi soil for use in waste containment liners	Ramana Kumar Chenna	2001
10	A study of geogrid reinforced retaining wall with rigid facing	V. Umasree	2001
11	Bearing capacity of strip footing on clay with surcharge of finite extent	Sakunthala C.	2002
12	Elastic behaviour of compacted sand columns in shedi ground	B.S.Kaveri	2002
13	Experimental studies of granular bed overlying soft soil	Ramanand Boggarappu	2003
14	Triaxial behaviour of blended and unblended shedi soil	CBC Srinivas	2003
15	Analysis, design and behaviour of rock socketed piles	Roshan C. Nair	2003
16	Critical assessment of methods for determining the ultimate axial capacity of bored cast in situ rock socketed piles for Mumbai Region	Kedar M. Deshpande	2004
17	Studies on accelerated consolidation and CBR tests on randomly distributed fibre reinforced soil using natural geotextiles.	N. Madhu	2004 (Coguide: Dr. Varghese George)
18	Studies on anisotropy and behaviour of blended and unblended shedi soil	Ravi Achari	2005
19	Some studies on strip footing on granular bed overlying weak soil	Shailesh K.	2005
20	Experimental investigation of reinforced granular bed on weak grounds	Amrit Kumar	2006
21	Some studies on shrinkage limit of soils	G.Gayathri	2006
22	Studies on shear strength and elastic properties of lateritic soil subgrades for pavements	A.S.Vishweshwara	2007
23	"Studies on Shirazu soil"	Parvathy Krishnakumar (Coguides:Dr.Sitaram Nayak & Prof. Kitamura of Kagoshima Uni.)	2007
24	Compaction and deformation characteristics of lateritic and shedi soils	Mrs. Poupak Zargar (06GT07F)	2008
25	Effect of silt or fines content on properties of lateritic soils	Anjini Kumar Mallede (06GT02F)	2008
26	Experimental studies on effect of geometrical parameters on stone column treated ground	Naveen James (07GT05F)	2009 (Coguide: Dr. Sitaram Nayak)
27	Experimental studies on effect of stone	Rajatkumar Vaidya	2009

	columns in layered soil	(07GT06F)	(Coguide:Dr. Sitaram Nayak)
28	Experimental studies on effect of circumferential nails on stone columns treated ground	Manjunath R (07GT03F)	2009 (Coguide:Dr. Sitaram Nayak)
29	Investigation on effectiveness of soil and reinforced soil as a seismic based isolator	Renjitha Mary Varghese (07GT07F)	2009
		(Coguides: Dr. Ramesh Babu of CPRI & Dr. B.R. Jayalekshmi)	
30	Studies on soils treated with a cementitious stabilizer for use as pavement materials	Sharath P. (08GT10F)	2010 (Coguide: Dr. A.U. Ravi Shankar)
31	Dynamic Soil Structure Interaction of structures on isolated footing and raft foundation	Anoop Kumar Ganjihah (08GT02F)	2010
32	Experimental and numerical studies on reinforced stone columns in soft soil	Jahad A. Majeed (08GT06F)	2010 (Coguide: Dr. Sitaram Nayak)
33	Behaviour of Stone Columns in layered soils – Analytical and Experimental Study	Damu D. (08GT04F)	2010 (Coguide: Dr. Sitaram Nayak)
34	Experimental and Numerical studies on Long Term Behaviour of Stone Columns	Bipin Madhu (08GT03F)	2010 (Coguide: Dr. Sitaram Nayak)
35	Load Deformation Behaviour of Coir Stabilized Soil	Sachit Pai (08GT08F)	2010 (Coguide: Dr. A.U. Ravi Shankar)
36	Microzonation for power projects	Kiran, R.G. (09GT08F)	2011
		(coguide: R. Ramesh Babu of CPRI)	
37	Dynamic Soil structure interaction studies using LSDYNA and PLAXIS Softwares	V. Sreenivasa (09GT13F)	2011 (Coguide: Dr. B.R. Jayalekshmi)
38	Experimental and numerical studies on behaviour of stone columns with porous concrete plugging	Rashma R.S.V. (09GT12F)	2011 (Coguide: Dr. Sitaram Nayak)
39	Experimental and numerical studies on long term behaviour of stone columns with porous concrete plugging	Jasina Chakyarath (09GT06F)	2011 (Coguide: Dr. Sitaram Nayak)
40	Parametric study and factors affecting design of twin box culvert RCC underpass and retaining walls (also using PLAXIS software)	Nisha Sharath (09GT11F)	2011 (Coguide: Dr. A.U. Ravi Shankar)
41	Experimental studies on erosion potential of shedi soils	B. Rajeshwari (09GT04F)	2011
42	Experimental and Numerical Studies on the behavior of Prestressed geosynthetic reinforced granular bed overlying weak soil	Aswathy, M.S. (09GT03F)	2011
43	Soil structure interaction on tall industrial chimneys under along wind loading	Arun Kumar Y.M. (09ST06F)	2011 (Coguide: Dr. B.R. Jayalekshmi)
44	Soil structure interaction effects on tall industrial chimneys under seismic load	Venkatasubbaiah C. (09ST24F)	2011 (Coguide: Dr. B.R. Jayalekshmi)
45	Dynamic Soil-structure interaction studies on tall industrial chimneys using LS-DYNA	Ansu Thomas (10GT01F)	2012 (Coguide: Dr. B.R. Jayalekshmi)
46	Soil-Foundation interaction effects on static response of circular raft foundation	Sujisha, C. (10GT11F)	2012 (Coguide: Dr. B.R. Jayalekshmi)
47	Erosion studies on shedi soil with increased clay contents	C. Yogesh Raj Urs (10GT04F)	2012
48	The effect of prestressing geosynthetic reinforcements for the improvement of weak soil	Vigey Mary, W. (10GT12F)	2012

49	Numerical study of reinforced granular bed on weak soil using PLAXIS	Suparna Sukumaran (11GT16F)	2013
50	Analytical and Numerical study of laterally loaded piles	Jayanth B (11GT06F)	2013
51	Parametric study of prestressed reinforced granular bed overlying weak soil using PLAXIS software	M. Venkateswara Reddy (11GT08F)	2013
52	Studies on Reinforced granular bed overlying weak soil – with voids (including effect of prestressing the reinforcement)	Nileena Suresh Kumar (11GT11F)	2013
53	Studies on effect of vegetation on shear strength of soils and stability of slopes	Hridya, S. (12GT05F)	2014
54	Finite element analysis of piled raft foundation on soft clay	Shoiab Mubarik (12GT12F)	2014
55	Electrical resistivity studies on geomaterials	Gayathri V. L. (13GT06F)	2015
56	Studies on back to back MSE walls	Kumbha War (13GT08F)	2015
57	Studies on effect of vegetation (surface vegetation and tall trees) on shear strength of soils and stability of slopes, including effect of wind	S. Anaswara (13GT02F)	2015
58	Numerical modeling of pile groups in soft and subsiding grounds & Studies on bridge support approach piles	Neethu Sebastian (13GT09F)	2015
59	Studies on granular bed overlying weak grounds - an analytical study	Darshan, G. C. (14GT05F)	(2016)
60	Studies on stabilization of shedi soil with Ca lignosulfonates - erosion and slope stability perspective	Krishnanunni, K. T. (14GT09F)	(2016)
61	Electrical resistivity studies on geomaterials and other construction materials 1	Hariitha P. A. (14GT07F)	(2016)
62	Electrical resistivity studies on geomaterials and other construction materials 2	Jinu Mary Jacob (14GT08F)	(2016)

(D) LIST OF SOME B.TECH PROJECTS RECENTLY GUIDED AT KREC/NITK

Sl. No.	Title of thesis	Name of Student	Year of graduation
1	Design of retaining structure	Milind Sarvaiya (05CV21) Vinodhini, R.(05CV22) Mudith Raj(05CV43)	2008
2	Studies on bearing capacity of soil for raft foundation and design of mat footing on homogenous soil	Bharat Pratap Singh (06CV13) Nandkishore (06CV25) Priyam Samantray (06CV29)	2010
3	Ground Improvement Techniques	Haridas Rajkumar (06CV17) Nitin Chandra Singh (06CV26)	2010
4	Analysis & design of retaining structures and mat foundation	Manikappa (08CV31) Ashwini Kumar Tiwari (08CV75) Saurav Saini (08CV84) Veena Swaminathan (08CV95) Avijit Das (08CV96)	2012
5.	Study of an integrated retaining wall: Retaining wall part of framed superstructure	Lokesh Kumar (10CV30) Nirdesh Kumar (10CV49) Prمود Kumar Mourya (10CV58)	2014
6	Design of Retaining walls	Kaushik, B. O.(11CV32) Megha Mandara(11CV41) Punith Putran S.(11CV58) Anirudh V. Raja(11CV105)	2015
7	Optimal design of retaining wall as a water front structure	Salkar Abhishek R. (11CV77)	2015

		Prajwal Aithal K. (11CV54) Manjunath Hande P.S. (11CV38)	
8	Optimal Design of different types of retaining walls	Gyanendra kumar (11CV24) Ranvijay Azad (11CV66) Ravi Kumar (11CV67) Sahil Ratusaria (11CV75)	2015
9	Design of prestressed retaining wall	Suraj Jaiswal (11CV91) Shamanth S. (11CV82)	2015
10	Soil-Structure interaction studies	K. Vamshi (12CV39) Samar Kenkre (12CV43) S. Sanjay (12CV82) Vamsi Krishna Kamatham (12CV97)	(2016)
11	Mechanically Stabilized Earth Retaining Walls	Niveditha N. Prabhu (12CV63) Pushkar Sinha (12CV73)	(2016)

(7) RESEARCH PROJECTS:

Investigator/co-investigator for 4 major sponsored projects (1 of USAID; 2 of MHRD and 1 of BRNS)

(i) "Mechanically Stabilized Earth using poor quality backfills on soft Bangkok clay" USAID, US\$150,000, Prof. D.T.Bergado, Prof. A.S.Balasubramaniam and Mr. R. Shivashankar at AIT Bangkok, Thailand, 1987-1992

(ii) "Soil Nailing – The Reinforcement Method of Natural Ground" MHRD, Rs. 7.0 lakhs, Coordinators: Dr. R. Shivashankar and Dr. K.R.N.S. Setty, 2001-2004

(iii) "Experimental studies on non-destructive tests on pavement evaluation of low-cost roads and modified geosynthetic reinforced soil subgrades for rural and semi-urban areas of DK district" 2003-2006, MHRD thrust area, 18 lakhs [Investigators: Dr. Varghese George and Dr. R. Shivashankar.

(iv) "Dynamic Soil Structure Interaction Effects in Multistoreyed Structures on Homogenous Soil and Geosynthetic Reinforced Soil"; funded by BRNS, DAE, GOI, Rs.26.58 Lakhs; Year of start: September 2007, 3 years, PI: Prof. R. Shivashankar, Other Investigators: Dr. B.R. Jayalekshmi and Prof. Katta Venkataramana. IN PROGRESS (ON EXTENSION)

(8) RESEARCH PUBLICATIONS:

(A) REFEREEING OF BOOKS, JOURNAL ARTICLES ETC.

Reviewed typescript of a popular Text book of Geotechnical Engineering authored by S.K. Gulhati & Manoj Datta, for Tata McGraw Hill Publishing Company Limited, New Delhi, 2005

Reviewed papers for

(i) Geotechnical Journal of Southeast Asian Geotechnical Society

(ii) Lowland Technology International Journal (of IALT), Saga University, Japan

(iii) Indian Geotechnical Journal, Springer publishers

- (iv) Indian Geotechnical Conferences
- (v) International Journal of Pavement Engineering
- (vi) Scientific Research and Essays Journal (<http://www.academicjournals.org/SRE>)
- (vii) International Journal of Geomechanics (ASCE Journal)
- (vii) International Journal of Geomechanics and Engineering (GAE), Technopress.
- (ix) International Journal of Geosynthetics and Ground Engineering (IGGE), Springer Publishers
- (x) J. of Earthquake Engineering and Engineering Vibration (EEEEV)
- (xi) Manipal Journal of Engineering and Technology
- (xii) Journal of Computational Design and Engineering (Elsevier publications)
- (xiii) Canadian Geotechnical Journal

(B) PUBLICATIONS [178 accepted (J = 41 + 15; C = 79 + 38; O = 5)
04 under review]

(I) Reports/Book Chapters/ Editing (05):

- 1) Bergado, D.T., Sampaco, C.L., Alfaro, M.C., [Shivashankar, R.](#) and Balasubramaniam, A.S. (1989), "Welded Wire Reinforced Earth (Mechanically Stabilized) Embankments with Cohesive Backfill on Soft Clay", Third Progress Report Submitted to USAID (Thailand).
- 2) Bergado, D.T., Sampaco, C.L., [Shivashankar, R.](#) and Alfaro, M.C. (1990), "Mechanically Stabilized Earth (MSE) Embankments with Cohesive Backfill on Soft Ground", Fifth Progress Report Submitted to USAID (Thailand).
- 3) [Shivashankar, R.](#) (1996), "A report on Problems of Lowland Development" Balkema Publishers
- 4) [Shivashankar, R.](#), Miura, N. and Madhav, M.R. (1998), "Reinforced Granular Bed on Soft and Subsiding Ground", Chapter 14 of 'Improvement of Soft Ground – Design, Analyses and Current Researches' Edited by N. Miura and D. T. Bergado, Balkema Publishers, pp.168-182.
- 5) [Shivashankar, R.](#) (1991). "Behaviour of a mechanically stabilized earth (MSE) embankment with poor quality backfills on soft clay deposits, including a study of the pullout resistances" Doctoral dissertation, Division of Geotechnical and Transportation Engineering, School of Civil Engineering, Asian Institute of Technology, Bangkok, Thailand (*Cited 10 times as per Google scholar*)

[Shivashankar R. et al.](#) (1993) IGJ "Shear Layer, Confinement and Surcharge Method" [***cited in*** IGS Annual Lecture by M.R. Madhav, Indian Geotechnical Journal, Vol. 28, No.1, January 1998, pp33-39]

[Shivashankar R. et al.](#) (1993) IGJ "Shear Layer, Confinement and Surcharge Method" [***Cited in*** Section 4.5: Bearing Capacity Improvement in Soft Soils of the text book "An Introduction to Soil Reinforcement and Geosynthetics" by G.L. Sivakumar Babu, Uni. Press, 2006 edition].

(II) International Journals (41 accepted, 01 under review)

The link for 5 journal papers in GGE journal is

<http://rd.springer.com/search?query=R.+Shivashankar&search-within=Journal&facet-journal-id=10706>

- 1) Bergado, D.T., [Shivashankar, R.](#), Sampaco, C.L., Alfaro, M.C. and Anderson, L.R. (1991), "Behavior of a Welded Wire Wall with Poor Quality, Cohesive-Friction Backfills on Soft Bangkok Clay: a Case Study", Canadian Geotechnical Journal, Volume 28, Number 6, December 1991, ISSN 00083674, Pages 860-880 (**SCI index, Scopus index**).

- 2) Bergado, D.T., [Shivashankar, R.](#) and Anderson, L.R.(1991), "Full Scale Welded-Wire Wall", Geotechnical Engg. J of SEAGS Vol.24, No.1.
- 3) Bergado, D.T., Sampaco, C.L., [Shivashankar, R.](#), Alfaro, M.C., Anderson, L.R. and Balasubramaniam, A.S. (1991) "Performance of a Welded Wire Wall with Poor Quality Backfills on Soft Clay", ASCE Geotech. Engg. Special Publication. Geotechnical Engineering Congress 1991, pp.909 to 922 ([Scopus indexed](#)).
- 4) Bergado, D.T., Lo, K.H., Chai, J.C., [Shivashankar, R.](#), Alfaro, M.C. and Anderson, L.R. (1992) "Pullout Tests Using Steel Grids Reinforcement with Low-Quality Backfill", ASCE J. of Geotechnical Engineering, Vol.118, No.7, July 1992, pp.1047-1062, ISSN: 0733-9410, [DOI: 10.1061/\(ASCE\)0733-9410\(1992\)118:7\(1047\)](#), [Scopus indexed](#).
- 5) Bergado, D.T. and [Shivashankar, R.](#) (1993), "Pullout Capacity of Steel Grids in Lateritic Soil Backfill", Geotechnical Engg. J of SEAGS Vol.24, No.1, pp.77-95.
- 6) Bergado, D. T., [Shivashankar, R.](#), Alfaro M. C. , Jin-chun Chai and Balasubramaniam A. S. (1993), "Interaction Behaviour of Steel Grid Reinforcements in a Clayey Sand", Geotechnique Journal of Institution of Civil Engineers – London, UK; ISSN 0016-8505, 1993, Vol. 43, No.4, pp. 589-603 ([scopus indexed](#)).
- 7) Miura, N., Sakai, A., Fujikawa, K. and [Shivashankar, R.](#), (1995), "Reinforced Gravel Foundation for Box Culvert Construction on Soft and Subsiding Ground", Geosynthetics International, Vol. 2, No. 2, pp. 473-493. Technical Note by K.L. Soderman and J.P. Giroud ([Scopus indexed](#)).
- 8) Varghese George, Nageshwar Rao and [Shivashankar, R.](#) (2009), "PFWD, DCP and CBR Correlations for Evaluation of Lateritic Subgrades" , International Journal of Pavement Engineering, ISSN: 1029-8436, [DOI: 10.1080/10298430802342765](#) Taylor and Francis Publications, Vol.10, No.3, June 2009, pp.189-199 [published online on 10th Oct.2008] ([scopus indexed](#)).
- 9) Varghese George, Nageshwar Rao and [Shivashankar, R.](#) (2009), "Effect of Soil Parameters on Dynamic Cone Penetration Indices of Laterite Sub-grade Soils from India", Journal of Geotechnical and Geological Engineering, ISSN: 0960-3182, Technical Note, Vol.27, Issue 4, August 2009, Springer, Netherlands, pp.585-593 [published online on 7th November 2008.] [DOI 10.1007/s10706-008-9248-6](#) ([scopus indexed](#))
- 10) Jayalekshmi, B.R., Katta Venkataramana and [Shivashankar, R.](#) (2009), "Seismic Response of Space Frames with Isolated Footing on Layered Soil", International Journal of Earth Sciences and Engineering, Vol.2, No.1, Feb.2009, pp.68-72 ([Scopus indexed](#)).
- 11) Jayalekshmi, B.R., Katta Venkataramana and [Shivashankar, R.](#) (2010), "Dynamic Soil Structure Interaction Effects on Multistoreyed Structures", International Journal of Earth Sciences and Engineering, Published by Cafet Innova Technical Society, ISSN 0974-5904, Vol.3, No.1 SPL, March 2010, pp.47-58 ([scopus indexed](#)).
- 12) [Shivashankar, R.](#), Dheerendra Babu, M.R., Sitaram Nayak and Manjunath, R. (2010), "Stone Columns with Vertical Circumferential Nails: Laboratory Model Study", Journal of Geotechnical and Geological Engineering, Published online on 13th May 2010, Volume 28, Issue 5, pages 695-706, ISSN 09603182, [DOI 10.1007/s10706-010-9329-1](#), Springer Publishers, Netherlands ([scopus indexed](#))
- 13) Sitaram Nayak, Ramaiah Shivashankar, Madhalam Ramanaidu Dheerendra Babu, (2011), "Performance of Stone columns with Circumferential nails", [Proceedings of the ICE - Ground Improvement](#), Volume 164, Issue 2, pages 97 –106 , ISSN: 1755-0750, E-ISSN: 1755-0769, [DOI: 10.1680/grim.2011.164.2.97](#) Thomas Telford ([scopus indexed](#))
- 14) Varghese George, Nageshwar Rao and [Shivashankar, R.](#) (2009), "Effects of soil parameters and moisture content on stiffness of unsaturated blended laterite using triaxial tests in rural roads", Intl. Journal of Earth Sciences and Engineering, Published by Cafet Innova Technical Society, ISSN 0974-5904, Volume 4, No.6, pp.1091-1102 ([scopus indexed](#)).
- 15) [Shivashankar, R.](#), Dheerendra Babu, M., Sitaram Nayak and RajathKumar, V. (2011), "Experimental Studies on Behaviour of Stone columns in Layered soils", Journal of Geotechnical and Geological Engineering, Springer Publishers, Netherlands, September 2011, Vol.29, Issue 05, pp. 749-757 [DOI: 10.1007/s10706-011-9414-0](#), ISSN 09603182, *published online* <http://www.springerlink.com/content/a167768851gm1673/>. ([scopus indexed](#))
- 16) Srinath Shetty, [Shivashankar, R.](#) and Shailesh, K. (2011), " Some Studies of Strip Footing on Granular Bed Overlying Weak Soil", International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 6, No.15 (2011), pp.1883-1892 ([scopus indexed](#))
- 17) Ramakrishne Gowda, C., Yaji, R.K., [Shivashankar, R.](#) and Sivapullaiah, P.V. (2011), "Geotechnical Properties of Shedi Soil Affected by Alkali Contamination", International Journal of Environmental Protection (IJEP), World Academy Publishing, Vol.1, No.4,pp.45-52 (EBSCO/ProQuest/DRJI) indexed).
- 18) Jayamohan, J. and [Shivashankar, R.](#) (2012). "Some Studies on Prestressed Reinforced Granular Beds Overlying Weak Soil", *International Scholarly Research Network (ISRN) Journal of Civil Engineering, USA*, Volume 2012, Article id 436327, Hindawi Publishers [Impact factor of journal = 1.0].
- 19) Jisha, S.V., Jayalekshmi, B.R. and [Shivashankar, R.](#) (2012). "Across Wind Response of Tall Reinforced Concrete Chimneys considering the Flexibility of Soil", International Journal of Engineering Research & Technology (IJERT) (ISSN 2278-0181), Vol.1, Issue 8, October 2012 (8 pages).<http://www.ijert.org/browse/October-2012-edition?start=120>

- 20) Patil, S.J., Reddy, G.R., [Shivashankar, R.](#), RameshBabu, Jayalekshmi, B.R. and Binukumar (2012), "Natural Seismic Base Isolation of Structures having Raft Foundations ", International Journal of Emerging Technology and Advanced Engineering (IJETA), Website: www.ijetae.com (ISSN: 2250-2459, Volume 2, Issue 8, August 2012), pages 23-28.
- 21) Nalini, R., Vedala Rama Sastry, [Shivashankar, R.](#) and Lakshmi, S. (2012), "Behaviour of Tunnel and Surrounding Strata using 3DEC Numerical Modelling: Case Study of an U/G Metro Rail Project", *International Journal of Earth Sciences and Engineering*, Published by Cafet Innova Technical Society, ISSN 0974-5904, Volume 05, Special issue 06 (01), December 2012, pp.1763-1770 ([scopus indexed](#)).
- 22) Dheerendra Babu, M.R., Sitaram Nayak and [Shivashankar, R.](#) (2013), "A Critical review of construction, analysis and behavior of stone columns" Geotechnical and Geological Engineering (International) Journal, ISSN 0960-3182, DOI [10.1007/s10706-012-955-9](https://doi.org/10.1007/s10706-012-955-9), (published first on line and accepted for publication on Sept.03, 2012), February 2013, vol. 31(issue 01): pp.1-22, Springer Publishers, Netherlands ([scopus indexed](#))
- 23) Jayalekshmi, B.R., Deepthi Poojary, V.G., Katta Venkataramana and [Shivashankar, R.](#) (2013) "Seismic Response Analysis of RC Frames including Soil Flexibility" International Journal of Structural Engineering and Mechanics", Vol.48, No.1 10/2013, pp 1-16, Techno-Press Ltd. (<http://www.techno-press-org/?journal=sem&subpage=8>, ISSN:1225-4568 (print)1598-621.7 Online,, DOI: [10.12989/sem.2013.48.1.001](https://doi.org/10.12989/sem.2013.48.1.001) 0.93 Impact Factor ([scopus indexed](#))
- 24) Ansu Thomas, Jayalekshmi B.R. and [Shivashankar R.](#) (2013), "Seismic Soil-Structure Interaction Studies on Tall Chimneys", Paper S127, International Journal of Scientific and Engineering Research (IJSER), Vol.4, Issue 5, ISSN 2229-5518, pp.188-191, May 2013
- 25) Jayalekshmi B.R., Jisha S.V and [Shivashankar R.](#) (2013), "Soil-structure interaction analysis of tall reinforced concrete chimney with piled raft and annular raft under along wind load", *International Scholarly Research Network (ISR) Journal of Structures* (open access journal) 10/2013, Hindawi Publishers, USA, Vol.2013, Article ID 859246, 14 pages, DOI: [10.1155/2013/859246](https://doi.org/10.1155/2013/859246) <http://dx.doi.org/10.1155/2013/859246>, <http://www.hindawi.com/journals/jstruct/2013/859246/>
- 26) Jayalekshmi B.R., Jisha S V, [Shivashankar, R.](#) and Soorya Narayana S (2014) "Effect of dynamic soil-structure interaction on raft of piled raft foundation of chimneys", *ISR Civil Engineering Journal* (Research Article No.790928) 01/2014, Hindawi Publishing Corporation, Vol.2014,1-11, ISSN 20905106, DOI [10.1155/2014/790928](https://doi.org/10.1155/2014/790928) ([scopus indexed](#))
- 27) Sitaram Nayak, Dheerendra Babu, M.R., [Shivashankar, R.](#) and Naveen James (2014) "Performance of granular columns in dispersive soils" *Proceedings of the Institution of Civil Engineers ICE, Geotechnical Engineering* Volume 167, issue GE1, Paper 110004, February 2014, Thomas Telford, pp.72-82. ISSN 13532618, DOI: [10.1680/jgeeng.11.00004](https://doi.org/10.1680/jgeeng.11.00004) ([scopus indexed](#))
- 28) [R. Shivashankar](#), J. Jayamohan and K. Srinath Shetty (2014), "Improving bearing capacity of footings on weak and soft soils", *International Journal of Earth Sciences and Engineering*, Published by Cafet Innova Technical Society, ISSN 0974-5904, Volume 06, No. 06(01) December2013, pp.1694-1699 ([scopus indexed](#))
- 29) [Shivashankar, R.](#) and Jayamohan, J. (2014), "Behaviour of prestressed reinforced foundation beds overlying weak soil", *Geotechnical Special Publication (238 GSP)*, pp.389-403, (2014 GeoShanghai International Congress: Ground Improvement and Geosynthetics; Shanghai; China; 26 May 2014 through 28 May 2014; Code 105898, sponsored by: The Geoinstitute of ASCE, Published by the American Society of Civil Engineers (ASCE), ISSN:08950563; ISBN (Print): 978- 078441340-1; Publisher: American Society of Civil Engineers <http://dx.doi.org/10.1061/9780784413401.039>
- 30) Rajkumar Manisana, Nayana N. Patil, Rajashekhar Swamy, H.M. and [Shivashankar, R.](#) (2014), "Load settlement characteristics of reinforced and unreinforced foundation soil", *International journal of Engineering Research and Technology (IJERT)* (ISSN:2278-0181), Vol.3, issue 05, May 2014 (impact factor 1.76)
- 31) [Shivashankar, R.](#) and Jayaraj, J. 2014, Effects of prestressing the reinforcement on the behaviour of reinforced granular beds overlying weak soil, *Geotextiles and Geomembranes*, ISSN 02661144, DOI [org/10.1016/j.geotextmem.2013.08.008](https://doi.org/10.1016/j.geotextmem.2013.08.008), Vol.42, issue 1, February 2014, pp.69-75, Elsevier Publishers ([scopus indexed](#))
- 32) Jisha, S.V., Jayalekshmi, B. R., [Shivashankar, R.](#) and Soorya Narayana,S.(2014), "Time history analysis of piled raft foundations of chimney considering the flexibility of soil", *ACEEE-IJRTET journal*, <http://ijrtet.theaceee.org/>, Paper ID EA1024-IJRTET.
- 33) Nalini Elizabeth Rebello, Vedala Sastry and [R Shivashankar](#) (2014) "Study of Surface Displacement on Tunnelling under Buildings using 3DEC Numerical Modelling", *International Scholarly Research Notices (ISR) Journal*, Vol. 2014 (2014), Article ID 828792, Hindawi Publishing Corporation, 13 pages.doi: [10.1155/2014/828792](https://doi.org/10.1155/2014/828792), <http://www.hindawi.com/journals/isrn/2014/828792/>
- 34) Jayalekshmi, B. R., Ansu Thomas and [Shivashankar, R.](#) (2014), " Dynamic soil-structure interaction studies on 275 m tall RC chimney with openings", *Intl journal of Earthquakes and Structures*, Vol.7, No.2(2014), pp.233-250, Technopress publications, EAS 7-2 (August 2014), ISSN 20927614 DOI: [10.12989/eas.2014.7.2.233](https://doi.org/10.12989/eas.2014.7.2.233) ([scopus indexed](#))
- 35) Nalini Rebello, Vedala Rama Sastry and [R. Shivashankar](#) (2014), "Numerical modelling study of behaviour of consolidated strata around tunnel", *Science, Technology Arts Research Journal*, A peer reviewed Intl. journal of Wollega Uni., Ethiopia, pp.190-196

- 36) Jisha, S., Jayalekshmi, B., and Shivashankar, R. (2014) Analysis of Foundation of Tall RC Chimney with 3D Finite Element Method. Computing in Civil and Building Engineering (2014): pp. 1368-1375. ISBN (Print): 978-0-7844-1361-6, Publisher: American Society of Civil Engineers, doi: 10.1061/9780784413616.170
- 37) Jayalekshmi, B. R., Jisha, S.V. and Shivashankar, R. (2015), "Response in piled raft foundation of tall chimneys under along-wind load incorporating flexibility of soil", Frontiers of structural and civil engineering journal, Sept. 2015, vol. 9(issue 3), Springer, DOI:10.1007/s11709-015- 0288-8, pp.307-322 (first online 25 March 2015) (scopus indexed).
- 38) Jisha, S. V., Jayalekshmi, B. R. and Shivashankar, R. (2015), "Wind load analysis of tall chimneys with piled raft foundation considering the flexibility of soil", accepted for publication in International Journal of Advanced Structural Engineering (IJASE) 06/2015, 7(2), Springer publishers, DOI: 10.1007/s40091-015-0085-6
- 39) Nimi Ann Vincent, Shivashankar, R., Lokesh, K.N. and Gayathri, V.L. (2015), "Investigating linkages between electrical resistivity and physical characteristics of unsaturated soil", Journal of Civil Engineering and Environmental Technology (JCEET), Vol.2, No.13, July-September 2015, pp.46-50.
- 40) Shivashankar, R., Ravi Shankar, A. U. and Jayamohan, J. (2015), "Some Studies on Engineering Properties, Problems, Stabilization and Ground Improvement of Lithomargic Clays", Paper No.3095, Geotechnical Engg. Journal of SEAGS and AGSSEA, Vol.46, No.4, December 2015, ISSN 0046-5828, pp.68-80, Special issue on contaminated soils including contaminated soils (Guest editors Jay N. Meegoda and Liming Hu) (<http://seags.ait.asia/journals/seags-agssea-journal-december-2015/> scopus indexed).
- 41) Nalini Elizabeth Rebello, Vedala Rama Sastry and R. Shivashankar (2016), "Response of strata and buildings to blast induced vibrations in the presence and absence of a tunnel" Geotechnical and Geological Engineering (International) Journal, Springer Publishers, Netherlands, manuscript number, GEGE-D-15-00170R2 (Accepted, April 25, 2016) DOI: 10.1007/s10706-016-0021-y (scopus indexed)
- R1) Jisha, S. V., Jayalekshmi, B. R. and Shivashankar, R. "Dynamic soil-structure interaction effects in annular raft foundations of tall reinforced concrete industrial chimneys", submitted to Journal of Soil Dynamics and Earthquake Engineering, Elsevier (under Review)

III) National Journals/NITK Research Bulletin (15 accepted, 01 under review)

- 1) Jayalekshmi, B.R., Deepthi Poojary, V.G., Shivashankar, R. and Katta Venkataramana (2007), "Time History Analysis of Reinforced Concrete Framed Buildings on Geosynthetic Reinforced Soil", NITK Research Bulletin, Vol.16, No.2, Dec.2007, pp.32-36.
- 2) Jayalekshmi, B.R., Chandrashekar, A., Venkataramana, K. and Shivashankar, R. (2007), "Dynamic FE analysis of multistoreyed frames including soil foundation structure interaction effects", NITK Research Bulletin, Vol.16, No.1, June 2007, pp.14-18.
- 3) Nageshwar Rao, Ch., Varghese George and Shivashankar, R. (2007), "Laboratory studies on Correlations between PFW and DCP for Lateritic Subgrades of Dakshina Kannada District", NITK Research Bulletin, Vol.16, No.2, Dec.2007, pp.25-31.
- 4) Jayalekshmi, B.R., Venkataramana, K., Shivashankar, R. and Lohit, K. (2008), "Modal Analysis of Multistorey Space Models incorporating Soil Flexibility", NITK Research Bulletin, Vol.17, No.2, Dec.2008, pp.....
- 5) Varghese George, Nageshwar Rao, Ch. and Shivashankar, R. (2009), "A Laboratory Investigation on Evaluation of Lateritic Subgrades using PFW and CBR, and their Correlations", Highway Research Journal of the Indian Roads Congress, July-Dec.2009, Vol.2, No.2, pp.51-62.
- 6) Varghese George, Nageshwar Rao, Ch. and Shivashankar, R. (2009), "Investigations on Unsoaked Blended Laterite using PFW, PBT, DCP and CBR Tests", Journal of the Indian Roads Congress, ISSN: 0258-0500, Paper No.556, Vol.70, No.3, Oct-Dec.2009, pp.235-257 (223-233??).
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- 10) R. Shivashankar and J. Jayamohan, (2013), Studies on effects of prestressing the reinforcement on the behaviour of reinforced granular beds overlying weak soil, *Indian Journal of Geosynthetics and Ground Improvement*. Published by Indian Chapter of Intl. Geosynthetics Society, ISSN:2277-5625 (print), ISSN 2277-5633, Vol.2, No.2, July 2013, pgs. 3-13
- 11) Nalini, R., Shivashankar, R. and Sastry, V.R. 2013, Analysis of behaviour of a tunnel and surrounding strata using 3DEC numerical modelling: Case study of an U/G metrol rail project", ISRM (India) Journal, Volume 2, No.2, July 2013, pp.19-22.

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 - 13) Jisha, S. V., Jayalekshmi, B. R. and Shivashankar, R. 2014, "3D soil-structure interaction analyses of annular raft foundation of tall RC chimneys under wind load", *Indian Geotechnical Journal*, ISSN 00468983, DOI 10.1007/s40098-013-0095-x, December 2014, Vol. 44, Issue 4, pp.409-426, Springer Publishers (scopus indexed)
 - 14) Sastry, V.R., Rebello Nalini and Shivashankar, R. 2015, "Blast induced response of a tunnel in the presence of a two storied structure", *ISRM India journal - Half Yearly Technical journal of Indian National Group of ISRM.*, Vol.4, Issue:1, pp.10-14. Print ISSN: 2277-131X; Online ISSN: 2277-1328.
 - 15) Nayana N. Patil, H.M. Rajashekar Swamy, and R. Shivashankar (2016), "Studies on modulus of subgrade reaction of reinforced foundation soil using model Plate Load test", *Journal of Chemical and Pharmaceutical Sciences*, Special issue 2, ISSN 0974-2115, pp.46-51 (Scopus indexed).
- R1) Jisha, S. V., Jayalekshmi, B. R. and Shivashankar, R. 2014, "Soil-structure interaction analysis of tall chimneys under wind load", submitted to *IES Journal Part A: Civil and Structural Engineering*, Manuscript ID TIEA-2014-0023, Taylor and Francis publishers

(IV) International Conferences/Seminars (79 accepted, 02 under review):

- 1) Bergado, D.T., Cisneros, C.B., Sampaco, C.L., Shivashankar, R. and Alfaro, M.C. (1989), "Pullout Resistance of Steel Grids with Weathered Bangkok Clay Backfill", *Proc. Symp. On Application of Geosynthetic and Geofiber in Southeast Asia*, Institution of Engineers, Petaling Jaya, Selangor Darul Ehsan, Malaysia, pp.1-26 to 1-34.
- 2) Bergado, D.T., Sampaco, C.L., Alfaro, M.C., Shivashankar, R. and Balasubramaniam, A.S. (1989), "Mechanically Stabilized Earth (MSE) and Other Ground Improvement Techniques for Infrastructure Construction on Soft and Subsiding Ground", *Proc. Symposium Excavations on Soils and Rocks Including Earth Pressure Theories, Buried Structures and Tunnels*, Bangkok, Thailand.
- 3) Bergado, D.T., Sampaco, C.L., Shivashankar, R., Alfaro, M.C., Anderson, L.R. and Balasubramaniam, A.S. (1990), "Interaction of Welded Wire Reinforcement with Poor Quality Backfill", *10th SEAGS, Chinese Institute of Civil and Hydraulic Engineering*, 1, 29-34.
- 4) Bergado, D.T., Shivashankar, R. and Chai, J.C.(1990), "Mechanically Stabilized Earth (MSE) Embankments on Soft and Subsiding Ground in Bangkok, Thailand", *Proc. Intl. Seminar on Geotechnical and Water Problems in Lowland*, Saga, Japan, pp.57-76 (November 27, 1990).
- 5) Bergado, D.T., Cisneros, C.B., Sampaco, C.L., Alfaro, M.C. and Shivashankar, R. (1990), "Effect of Compaction Moisture Contents on Pullout of Steel Geogrids with Weathered Clay Backfill", *Proc. 4th Intl. Conference on Geotextiles*, The Hague, Netherlands, May-June 1990, pp.803.
- 6) Bergado, D.T., Lo, K.H., Sampaco, C.L., Alfaro, M.C., Shivashankar, R. and Anderson, L.R. (1990), Behavior of Mechanically Stabilized Earth (MSE) Wall on Soft Ground, *Proc. Philippine Institute of Civil Engineers National Convention*, Manila.
- 7) Bergado, D.T., Sampaco, C.L., Shivashankar, R., Alfaro, M.C., Anderson, L.R. and Balasubramaniam, A.S. (1991) "Performance of a Welded Wire Wall with Poor Quality Backfills on Soft Clay", *Proc. ASCE Geotech. Engg. Congress at Boulder, Colorado, USA*, pp.909-922.
- 8) Bergado, D.T., Sampaco, C.L., Alfaro, M.C., Shivashankar, R. and Balasubramaniam, A.S. (1991), "Mechanically Stabilized Earth (MSE) and Other Ground Improvement Techniques for Infrastructure Construction on Soft and Subsiding Ground" *Developments in Geotechnical Aspects of Embankments, Excavations, and Buried Structures*; Bangkok, Thailand; Code 16265, ISBN: 9054100192, **Editors:** Balasubramaniam A.S., Honjo Y., Bergado D.T., Phien-Wej N., Indraratna B. **Sponsors:** Asian Inst of Technology, Canadian Int Development Agency, Southeast Asian Geotechnical Soc **Publisher:** Publ by A.A. Balkema, Rotterdam, Netherlands (scopus indexed)
- 9) Bergado, D. T., Balasubramaniam, A. S., Lo, K. H., Shivashankar, R., Sampaco, C.L. and Alfaro, M. C. (1991), "Interaction of steel geogrids and low-quality, cohesive-frictional backfill and behavior of mechanically stabilized earth (MSE) wall on soft ground", *Developments in Geotechnical Aspects of Embankments, Excavations and Buried Structures*, ISBN: 9054100192, **Editors:** Balasubramaniam, A.S., Honjo Y., Bergado D.T., Phien-Wej N., Indraratna B. **Sponsors:** Asian Inst of Technology, Canadian Int Development Agency, Southeast Asian Geotechnical Soc **Publisher:** Publ by A.A. Balkema, Rotterdam, Netherlands (scopus indexed)
- 10) Shivashankar, R., Madhav, M.R. and Miura, N. (1993), "Reinforced Granular Beds Overlying Soft Clay", *Proc. 11th SEAGC, Singapore*, 4-8 May 1993 (Editors SL Lee, KY Yong, YK Chow, all from NUS Singapore) pp.409-414, ISBN: 981-00-4306-6 . <http://seags.ait.asia/publications/11th-SEAGC-1993-Singapore.pdf>
- 11) Shivashankar, R., Madhav, M. R. and Miura, N. (1993) 'Reinforced Granular Bed over Clay', *Annual Meeting of JSCE, Fukuoka*, Sept., 1993. Vol. III, pp. 844-845.

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- 16) Shivashankar, R., Madhav, M.R., Miura, N., Umezaki, K. and Gondoh, Y. (1996), "Semi-rigid Piled-raft System for Soft Subsiding Ground", Proc. Intl. Symposium on Earth Reinforcement [IS Kyushu '96], Fukuoka, Japan (12-14 Nov. 1996, under auspices of Japanese Geotechnical Society), A.A. Balkema Publishers, Rotterdam/Brookfield, pp.665-670.
- 17) Shivashankar, R. (1997), "Reinforced Granular Bed Overlying Piles in Weak Ground", Geosynthetics Asia'97 (Asian Regional Conference) 26-29 November 1997 @ Bangalore.
- 18) Shivashankar, R. and Reddy, A.C.S. (1998), "Reinforced Granular Bed on Poor Filled-up Shedi Ground", 13th SEAGC Taipei, Taiwan, R.O.C., 16-20 Nov. 1998. (Only abstract)
- 19) Shivashankar, R. (2000), "Geotechnical Engineering Problems in and around Mangalore, India", GEOTECHNICS conference , Southeast Asian Geotechnical Society, AIT Bangkok, Thailand.
- 20) Ravi Shankar, A.U. and Shivashankar, R. (2002), "Improving Soft Shedi Ground for Pavements", International Conference on Geotechnical Engineering, Saga University, Japan, Sept. 2002
- 21) Shivashankar, R. (2003) "A Study of Geogrid Reinforced Retaining Wall with Rigid Facing", 12th Asian Regional Conference on Soil Mechanics and Geotechnical Engg., Singapore, 4-8 August 2003
- 22) Jayalekshmi, B.R., Deepthi Poojary V.G., Katta Venkataramana and Shivashankar, R. (2007), "Earthquake Response of Multistoreyed RC Frames with Soil Structure Interaction Effects", Proc. International Conference on Recent Developments in Structural Engineering(RDSE-2007), held at Manipal Institute of Technology Manipal, August 30th to 1st September 2007, pp.1285-1292.
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- 25) Jayalekshmi, Dhanya, G. Katta Venkataramana and Shivashankar, R. (2008), "Dynamic Soil Structure Interaction Effects in Multistorey Frames with Raft Foundation", Proc. Indo-Japan Workshop on Recent Advances in Geotechnical Engineering, NITK Surathkal, 4th March 2008.
- 26) Arunkumar Bhat, K. Shivashankar, R. and Bhavanishankar Rao, N. (2008), "Stability analysis of stratified soil slopes with tension cracks", National Conference on Recent Trends in Emerging Technologies (RTET 08), NMAMIT, Nitte, India, April 2008.
- 27) Arunkumar Bhat, K., Shivashankar, R. and Yaji, R.K. (2008), "Case Study of Landslide in NH13 at Kethikal near Mangalore, India", 6 ICCHGE Sixth International Conference on case histories in Geotechnical Engineering and Symposium in honor of Prof. James K. Mitchel, Arlington, VA, USA (Organized by Prof. Shamsheer Prakash), August 11-16, 2008, paper No. 2.69, 12 pages (*Presented the paper at the Conference in Washington DC, USA, with support from TEQIP*)
- 28) Jayalekshmi, B.R., Lohith, K., Shivashankar, R. and Katta Venkataramana (2008), "Experimental Investigation on Dynamic Characteristics of Structures Founded on a Dispersive Soil", 12th International Conference of International Association for Computer Methods and Advances in Geomechanics (IACMAG), Organized by IITB, 1-6 October 2008, Goa, India, vol. 4, pp.2717-2724, ISBN 978-162276176-0, sponsored by NIDM, ASCE (scopus indexed).
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- 30) Arunkumar Bhat, K., Shivashankar, R. and Yaji, R.K. (2008), "Stability Analysis of Stratified Soils by Optimization Technique using Janbu's Generalized Procedure of Slices", 12th IACMAG International Conference of International Association for Computer Methods and Advances in Geomechanics, 1-6 October 2008, Goa, India, vol. 6, pp.4197-4205, ISBN 978-162276176-0, sponsored by NIDM, ASCE (scopus indexed).
- 31) Varghese George, Nageshwar Rao, Ch.; Shivashankar, R. and Arun Kumar, A. (2008), "Effect of moisture content and fines on PFWD resilient modulus of soaked blended laterite sub-grades", Golden jubilee International Conference on Transport Planning and Implementation Methodologies for Developing Countries (TPMDC - 2008), organized by IITB, 3-6 Dec.2008, pp1-14.

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- 33) Arunkumar Bhat, K., Shivashankar, R. and Bhavani Shankar Rao, N. (2009), "Effect of Berm on the Stability of Stratified Soil Slopes", ICAMB ID 9010, Proc. International Conference on Advances in Mechanical and Building Sciences in the 3rd Millenium (ICAMB 2009), December 14-16, 2009, Vellore Institute of Technology.
- 34) Srinath Shetty, K., Shivashankar, R. and Shailesh, K. (2009), "Some Studies of Strip Footing on Granular Bed Overlying Weak Soil", ICAMB ID 9007, Proc. International Conference on Advances in Mechanical and Building Sciences in the 3rd Millenium (ICAMB 2009), December 14-16, 2009, Vellore Institute of Technology.
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- 36) Jayalekshmi, B. R., Shivashankar, R., Venkataramana, K., Ramesh Babu, R. and Reddy, G.R. (2011) "Shake Table Tests to investigate the Isolation Effect of Geomembrane In Soil", Transactions of SMiRT 21, 21st International Conference on Structural Mechanics in Reactor Technology(SMiRT 21); held at India Habitat Centre, New Delhi, India during 6-11, November 2011, TS V-7C.3#549 (Technical Session V – 7C Experiments and Tests)
- 37) Patil, S.J., Reddy, G.R., Shivashankar, R., Ramesh Babu, R. and Jayalekshmi, B.R. (2011), "Natural Seismic Base Isolation System for RCC Structures", Transactions of SMiRT 21, 21st International Conference on Structural Mechanics in Reactor Technology(SMiRT 21); held at India Habitat Centre, New Delhi, India during 6-11, November 2011, TS V-5A.3#370 (Technical Session V – 5A Base Isolation)
- 38) Jisha, S.V., Jayalekshmi, B.R. and Shivashankar, R. (2012), "Dynamic Soil-Structure Interaction Effects in Raft Moments of Tall Reinforced Concrete Industrial Chimneys", Fourth Intl. Conference on Structural Stability and Dynamics (ICSSD 2012), MNIT, Jaipur, Rajasthan, India, Vol.1, Paper No. 29, 229-236, 4-6 January 2012.
- 39) Jayamohan, J. and Shivashankar, R. (2012). "Studies on Prestressed Reinforced Foundation Beds Overlying weak grounds", *International Conference on Emerging Trends in Engineering (ICETE-12)*, organized by NMAMIT, Nitte, 15-16 May 2012, pp 459 – 464 (Accepted and presented by the first author).
- 40) Shivashankar, R. and Jayamohan, J. (2012). "Geosynthetic Applications: Some Research Studies and Some Case Studies", *International Symposium on Sustainable Geosynthetics and Green Technology for Climate Change (SGCC) 2012*, Bangkok, Thailand, June 20-21, 2012, pp 111 -121, , [The Symposium was hosted by ACSIG and IGS-Thailand and co-organized by Suranaree University of Technology (SUT) and SEAGS under the auspices of the International Geosynthetics Society (IGS)]. **First author attended and presented the paper.**
- 41) Ravi Shankar, A.U., Shivashankar, R. and Sachit Pai, N. (2012). "Load-Deformation Behaviour of Coir Mat Treated Soil", International Conference on Ground Improvement and Ground Control (ICGI 2012), Oct. 30 – Nov.02, 2012, University of Wollongong, Australia. Published by Research and Publishing, Singapore, Vol 2, pp1571-1576. **First author attended and presented the paper.**
- 42) Srinath Shetty, K., Shivashankar, R. and Rashmi P. Shetty (2012), "Use of Radial Basis Function Neural Network for Bearing Pressure Prediction of Strip Footing on Reinforced Granular Bed overlying Weak Soil", XXXIII International Conference on Architectural, Civil and Environmental Engg. (ICACEE), Paris, France, Nov. 28-29, 2012. . **First author attended and presented the paper.**
- 43) Shivashankar, R.(2013) "Geotechnical Engineering with Geosynthetics - An Overview", Keynote lecture, 3rd International Engineering Symposium (IES 2013) at Kumamoto University, Japan, March 4-6, 2013. Attended and gave the keynote lecture. Travel support provided by Kumamoto University.
- 44) Shivashankar, R., Jayamohan, J. and Srinath Shetty, K. (2013), "Improving Bearing Capacity of Footings on Weak and Soft Soil", 3rd International Engineering Symposium (IES 2013) at Kumamoto University, Japan, March 4-6, 2013, Paper no: C-3-3, pp.C-3-3-1 to C-3-3-6. **Second author attended and presented the paper.**
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- 46) Sastry, V.R., Shivashankar, R., Rebello, Nalini and Sreedharan, Lakshmi (2013), "Behaviour of a Tunnel and Surrounding Strata using 3DEC Numerical Modeling: Case Study of an U/G Metro Rail Project", EURO:TUN2013 conf., Computational Methods in Tunneling and

Subsurface Engineering, Ruhr University, Bochum, Germany, April 17-19, 2013 (Paper Contribution ID:188).

- 47) Shivashankar, R. (2013). "Role of Case Histories in Geotechnical Engineering Teaching and Practice", Seventh Intl. Conference on Case Histories in geotechnical Engineering, May 1-4, 2013, Wheeling, Illinois, Chicago, USA [Conducted by Missouri University of Science and Technology (MUST) – Prof. Shamsher Prakash] {paper No.1.01b}. Attended the conference and presented the paper. Travel support provided by DST GOI. **Attended and presented the paper**
- 48) Ansu Thomas, Jayalekshmi B.R. and Shivashankar R. (2013), "Seismic Soil-Structure Interaction Studies on Tall Chimneys", Paper S127, International Conference on Innovations in Civil Engineering (ICICE-2013), May 09 and 10, 2013, Organized by SCMS School of Engineering and Technology, Palissery, Karutkutty-683582, Kerala, India in Association with International Journal of Scientific and Engineering Research and Indian Concrete Institute, Chennai, pp.185-188. **First author attended and presented the paper**
- 49) Shivashankar, R., Jayamohan, J. and Nileena Suresh, K. (2013) "Behaviour of Footings on Prestressed Geogrid Reinforced Granular Beds overlying weak soil", 2nd African Regional Conference on Geosynthetics, GeoAfrica 2013, Article id 07-02, Accra, Ghana, Nov. 18-20, 2013. First author attended and presented the paper. Travel support provided by TEQIP - II of NITK. **First author attended and presented the paper**
- 50) Jisha, S. V., Jayalekshmi, B. R. and Shivashankar, R. (2013), "Evaluation of the effect of soil-structure interaction on the raft of tall reinforced concrete chimneys under across wind load", Proc. 8th Asia-Pacific Conference on Wind Engineering (APCWE 8), December 10-14, Chennai, India [four page extended abstract and full paper are accepted], Paper No.222, pp.58-67. DOI: 10.3850/978-981-07-8012-8_222 **First author attended and presented the paper**
- 51) Jisha, S.V., Jayalekshmi, B.R., Shivashankar, R. and Soorya Narayana S. (2013), "Seismic Analysis of Chimneys on Piled Raft Foundations considering the Flexibility of Soil", Proc. Fourth Intl. Joint Conference on Advances in Engineering and Technology-Advances in Civil Engineering (AET-ACE2013), Organized by ACEEE, AMAE and ACEE and sponsored by ISTE (<http://aet.theides.org/2013/>) December 12-13 2013, NCR, India, Paper No. AET2013-ACE31L, pp.867-875. **Fourth author attended and presented the paper**
- 52) Nayana N. Patil, Rajashekhar Swamy, H.M. and Shivashankar, R. (2014), "Effect of stiffness of soil and reinforcements on pressure-settlement characteristics in a reinforced earth retaining wall", Intl. Civil Engg. Symposium (ICES), Organized by ASCE Indian Section of VTU Vellore, 14-16 March 2014 (paper accepted). **First author attended and presented the paper**
- 53) Rajkumar Manisana, Nayana N. Patil, Rajashekhar Swamy, H.M. and Shivashankar, R.(2014), "Comparative studies of reinforced and unreinforced foundation soil", International conference on emerging trends in engineering (ICETE 2014) organized by Department of Civil Engineering, NMAM Institute of Technology, Nitte, Paper ID S2.09.CE.150314.19., May 15-17, 2014. **First author attended and presented the paper**
- 54) Shivashankar, R. and Jayamohan, J. 2014 "Behaviour of Prestressed Reinforced Foundation Beds Overlying Weak Soil" Paper ID: GS-K0028 under topic Ground Improvement, Geo-Shanghai 2014 (full ppr of 15 pgs as per GSP ASCE format Accepted), organized by Tongji Uni. China, May 26-28, 2014. **First author attended and presented the paper**
- 55) Jisha, S. V., Jayalekshmi, B. R. and Shivashankar, R. (2014), "Analysis of foundation of tall RC chimney with 3D finite element method", Proceedings of the Intl. conf on computing in Civil and Building Engineering (ISCCBE2014), Organized by Intl. Society for computing in Civil and Building Engineering (ISCCBE), ASCE technical council on computing and IT in civil engineering; and Intl. council for research and innovation in building and construction (CIB), June 23-25, 2014, Florida, USA, pp.1368-1375, **ISBN:** 978-078441361-6, **DOI:** 10.1061/9780784413616.170, **Volume Editors:** Issa R. R. , Flood I. **Sponsors:** International Council for Research and Innovation in Building and Construction (CIB) W078, International Society for Computing in Civil and Building Engineering (ISCCBE), Technical Council on Computing and Information Technology of the American Society of Civil Engineers (ASCE) **Publisher:** American Society of Civil Engineers (ASCE) **Third author attended and present the paper** (scopus indexed)
- 56) Jisha, S. V., Jayalekshmi, B. R. and Shivashankar, R. (2014), "Dynamic soil-structure interaction analyses of 300 m tall industrial reinforced concrete chimneys on pile raft foundations", 10th US National Conference on Earthquake Engineering (10NCEE-2014): Frontiers of Earthquake Engineering, July 21-25, 2014, Anchorage, Alaska, USA. DOI: 10.4231/D33775W0V. **Sponsors:** Computers and Structures Inc. (CSI), ConocoPhillips, et al., Federal Emergency Management Agency (FEMA), Golder Associates, State of Alaska, Division of Geological and Geophysical Surveys (DGGs) **Publisher:** Earthquake Engineering Research Institute. **First author will attend and present the paper** (scopus indexed)
- 57) Jayalekshmi, B.R., Jisha, S. V. and Shivashankar, R. (2014), "Response of tall chimneys with piled raft and annular raft foundation under wind loads considering SSI", 14th Intl Conf. of the Intl. Association for Computer Methods and Advances in Geomechanics (14IACMAG), Kyoto, Japan, September 22-25, 2014, pg. 226 of volume of abstracts, pp.1005-1010, ISBN 978-113800148-0, Taylor & Francis - Balkema. **Third author attended and presented the paper** (scopus indexed)

- 58) Jayalekshmi, B.R., Jisha, S. V. and Shivashankar, R. (2014), "Seismic analysis of piled raft foundations of tall chimneys considering the effect of SSI", 14th Intl Conf. of the Intl. Association for Computer Methods and Advances in Geomechanics (14IACMAG), Kyoto, Japan, September 22-25, 2014, pg. 181 of volume of abstracts, pp.773-778, ISBN 978-113800148-0, Taylor & Francis - Balkema. **Third author attended and presented the paper** (scopus indexed)
- 59) Nayana N. Patil, Shivashankar, R. and Rajashekhar Swamy, H.M. (2014), "Effect of interface on behaviour of reinforced earth retaining wall", 14th Intl Conf. of the Intl. Association for Computer Methods and Advances in Geomechanics (14IACMAG), Kyoto, Japan, September 22-25, 2014, pg. 311 of volume of abstracts, pp.1403-1407, ISBN 978-113800148-0, Taylor & Francis - Balkema. **Second author attended and presented the paper** (scopus indexed)
- 60) Arunkumar Bhat, Shivashankar, R. and Ramakrishna Yaji (2014), " Landslide in National highway at Kethikal near Mangalore - Case Study", National Conference on Emerging Trends in Civil & Mechanical Engineering (ETCME 14), CDGI, Indore, October 2014.
- 61) Jayamohan, J. and Shivashankar, R. (2014), "Analytical modeling of prestressed reinforced granular beds overlying weak soil", *Geosynthetics 2014*, New Delhi, pp.15.23.
- 62) Shivashankar, R., Ravi Shankar, A. U. and Jayamohan, J. (2014), " Studies on engineering properties of lithomargic clays of coastal Karnataka in India", submitted to ISLT 2014, 9th International Symposium on Lowland Technology "Problems and remedial measures of lowland", September 29 to October 01, 2014 at Saga, Japan, pp.93-100.
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- 64) Nalini Rebello, Sastry, V. R. and Shivashankar, R. (2014), "Effect of varying building storeys in the presence of a tunnel on blast induced velocities and displacements", Proceedings of the International Conference of Emerging Trends in Engineering (ICETE14), NMAMIT, Nitte, 15-17 May 2014, pp.43-47.
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- 75) Biji Chinnamma Thomas, K. T. Krishnanunni, R. Shivashankar and D. V. Reddy (2016), " Slope stability studies of excavated slopes in lateritic formations, including erosion studies on lithomargic clays", 10th International Symposium on Lowland Technology at Mangalore, conducted by the International Association of Lowland Technology (IALT) and NITK
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- R2) R. Shivashankar, Jayalekshmi, B. R., Nalini Elizabeth Rebello and Sastry, V. R. (2017), "Soil Structure Interaction Studies with use of Geosynthetics in Soils beneath Footings", Manuscript Number: SUCI-D-16-00041, GeoMEast 2017 International Conference, 15-19 July 2017, Sharm El-Sheik, Egypt, Hosted by SSIGE, HBRC, Geoinstitute of HBRC and Egyptian Tunneling Society (ETS) [Abstract accepted].

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- 1) Shivashankar, R. and Bergado, D.T. (1996), "Lateral Pressures in a Mechanically Stabilized Earth Wall", Proc. Indian Geotechnical Conference 1996, Madras, pp.334-337.
- 2) Shivashankar, R., Bergado, D.T. and Balasubramaniam, A.S. (1997), "Multistage Pullout Testing", Proc. Indian Geotechnical Conference 1997, Vadodara, pp.589-590.
- 3) Shivashankar, R. and Reddy, A.C.S. (1998), "Reinforced Granular Bed on Poor Filled-up Shedi Ground", Proc. IGC 98, Vol.1, pp.301-304, New Delhi, 7-10 Dec 1998. **Adjudged Best Paper on "Geosynthetics and Allied Construction Products": published through the Indian Geotechnical Society (M/S Z-Tech Biennial Award).**
- 4) Shivashankar, R. (1998), "Welded wire Mechanically Stabilized Earth", National Workshop, IGS Golden Jubilee year Celebration, IGS Kanpur Chapter, IITKanpur, Aug 21-22, 1998.
- 5) Setty, K.R.N., Shivashankar, R. and Lakshman Rao Peshwe (1999), "Kethikal Slope Failure – a Case Study", Proc. Indian Geotechnical Conference 1999, Calcutta, pp.....
- 6) Shivashankar, R. and Setty, K.R.N.S. (2000), "Foundation Problems for Ground Level Storage Tanks in and around Mangalore", Proc. Indian Geotechnical Conference 2000, IIT Bombay, Mumbai.
- 7) Shivashankar, R., Suresh Babu, S.V. and Setty, K.R.N.S. (2002), "Soil Nailing – The Reinforcement Method of Natural Ground", Proceedings of the Indian Geotechnical Conference 2002, Allahabad, Vol.1, pp.633-636.
- 8) Shivashankar, R. and Sitaram Nayak (2005), "Geotechnical Practices in Coastal Karnataka", GEOPRACTICE-2005, Proc. National Conference on Case Studies in Geotechnical Engineering, July 25-26, 2005, I.I.Sc.(Bangalore), Interline Publishing, pp.105-110.
- 9) Nageshwar Rao, Ch., Varghese George, Shivashankar, R. and Vishweshwara, A.S. (2007), "Tests on Subgrade Strength using Portable Falling Weight Deflectometer and Dynamic Cone Penetrometer", Proc. of National Seminar on Roads 2007, IE(I) Belgaum Local Chapter, pp.147-155, March 1 & 2, 2007.
- 10) Jayalekshmi, B.R., Deepthi Poojary, V.G. Katta Venkataramana and Shivashankar, R. (2007), "Seismic Response of Reinforced Concrete Structures with Soil-Structure Interaction Effect of Soil Reinforcement", Proc. 4th Indian National Conference on Harbour and Ocean Engineering (INCHOE), NITK Surathkal, 12-14 Dec.2007, pp.
- 11) Jayalekshmi, Katta Venkataramana, Shivashankar, R. and Chandrashekar, A. (2007), "Soil-Foundation-Structure Interaction Effects on Static Respones of 3D Building Frames" , Proc. 4th Indian National Conference on Harbour and Ocean Engineering (INCHOE), NITK Surathkal, 12-14 Dec.2007, pp.
- 12) Arunkumar Bhat, K., Shivashankar, R. and Yaji, R.K. (2007), "Parametric Study of Stability Analysis of Layered Slopes by Optimization Technique using Janbu's Generalized Procedure of Slices", National Conference on Emerging Trends in Engineering, 11-12 May, 2007,
- 13) Varghese George, Nageshwar Rao, Ch. and Shivashankar, R. (2009), "Investigations on Unsoaked Blended Laterite using PFDW, PBT, DCP and CBR Tests", 70th Annual Convention of Indian Roads Congress, Patna, Bihar, Nov/Dec. 2009.
- 14) Ch. Nageshwar Rao, Varghese George and R. Shivashankar (2010), "Effect of Fines and Moisture Content on PFDW Resilient Modulus of Un-soaked Blended Laterite Sub-grades", 71st Annual Convention of Indian Roads Congress, Nagpur, 11-14 Nov. 2010.

- 15) **Renjitha Mary Varghese, B.R.Jayalekshmi, R. Shivashankar** (2010), "**Stress-Strain Characteristics of Reinforced Soil**", Ref.No.GT-2, Fourth National Conference on *Recent Advances in Civil Engineering (RACE 2010)*, 16-18 Sep 2010, CUSAT, Cochin.
- 16) Shivashankar, R. (2010), "Geotechnical and Foundation Practices in Coastal Karnataka", Piling and Deep Foundations Conference 2010 at Hyatt Regency, Mumbai, Oct 25-27, 2010, Organized by IQPC (International Quality and Productivity Centre, www.iqpc.ae).
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- 19) Gayathri G. Nair and Shivashankar, R. (2011), "Some Studies on Shrinkage Limit of Soils", National Conference on Advances in Engineering Geology and Geotechnical Engineering 2011 [GEOCON 2011], 29-30 March 2011, GCE Kannur, Kerala (Abstract only).
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- 22) Jisha, S.V., Jayalekshmi, B.R. and Shivashankar, R. (2012), "Dynamic Soil-Structure Interaction Effects in Tall Reinforced Concrete Industrial Chimneys", National Conference on Contemporary Civil Engineering Research and Practice – CCERP 2012, April 20-21, MIT Manipal, Paper No. STR08, pp.715-724.
- 23) Shivashankar, R., Jayalekshmi, B.R., Sitaram Nayak and Ravi Shankar, A.U. (2012), "Geosynthetics for Ground Improvement and Stability of Slopes", Two day workshop on 'Application of Optimization Techniques for Slope Stability Analysis and Recent Methods for Stabilization of Slopes, NMAMIT Nitte, 30-31 July 2012
- 24) Jisha, S. V., Jayalekshmi, B.R. and Shivashankar, R. (2012), "Contact Pressure Distribution under Raft Foundation of Tall Reinforced Concrete Industrial Chimneys due to Dynamic Soil-Structure Interaction", ISET Golden Jubilee Symposium, Indian society of Earthquake Technology, October 20-21, 2012, IIT Roorkee, Theme C, Paper No. C003, pg.69 in volume of abstracts.
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- 26) Shivashankar, R., Sitaram Nayak and Sunil, B.M. (2013), Geotechnical Engineering Practices: through case studies, A3C-12 Awards, Convention & Consultants Colloquium, January 11-12, 2013, Mangalore, India, Association of Consulting Civil Engineers, Mangalore Chapter.
- 27) Sastry, V.R., Nalini, R. and Shivashankar, R. (2013), "A study on surface displacements due to phasewise excavations with varying tunnel widths", Proceedings of National Conference on New horizons in Civil Engineering (NHCE 2013), 12-13 April 2013, MIT, Manipal, pp.316-326.
- 28) Jisha, S.V., Jayalekshmi, B.R. and Shivashankar, R. "Dynamic soil-structure interaction analyses of tall reinforced concrete industrial chimneys on piled raft foundations", under sub-theme of Earthquake Engineering, proceedings of the Indian Geotechnical Conference, IIT Roorkee, December 22-24, 2013 (Theme 5), pp.157-158. **Third author attended and presented the paper.**
- 29) Aswathy, M.S., Jayamohan, J. and Shivashankar, R. (2013), " Behaviour of prestressed geosynthetic reinforced granular bed overlying weak soil", Indian Geotechnical Conference, Roorkee, December 22-24, 2013; **presented by first author.**
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- 32) Nimi Ann Vincent, Lokesh, K. N. and Shivashankar, R. (2014), ""Electrical resistivity applications - a versatile testing technique in civil engineering", First Annual Conference on Innovations and Developments in Civil Engineering ACIDIC-2014 held during 19-20 May 2014 at NITK, Surathkal, Paper No. S-016-ACIDIC-2014.
- 33) Jayamohan, J. and Shivashankar, R. (2014), "**Analytical Modeling of Prestressed Reinforced Granular Beds overlying weak soils**" (ID "FACET1403001"), National Conference on 'Furthering Aspirations in Civil Engineering Techniques'-FACET'14, **26th-27th June 2014** at Govt. College of Engineering Kannur.

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- 35) Jisha, S. V., Jayalekshmi, B. R. and Shivashankar, R. (2014) "Dynamic Soil-Structure Interaction Analysis of Tall Chimney using Finite Element Method", *2014 ANSYS Convergence Conference*, 09 May 2014, Bangalore. (Extended paper accepted)
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- 38) R. Shivashankar, Krishnanunni, K. T., Biji Thomas and D.V. Reddy (2016), "Slope stability studies of excavated slopes in lateritic formations", Indian Geotechnical Conference, December 17-18, 2016, Chennai (organized jointly by Guindy Engg. College/Anna University and IIT Madras) (Paper accepted).