

## Professional Profile

---



**Dr. Chandresh H. Solanki**

**Professor**

**Applied Mechanics Department**



**SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY,  
SURAT – 395 007 (GUJARAT) - INDIA**

**Name** : **Dr. Chandresh H. Solanki**

**Designation and Address** : **Professor,**

Applied Mechanics Department,  
S V National Institute of Technology,  
SURAT – 395 007 (GUJARAT)

Mobile: +91 99252 07068

Fax: 0261-2228394

**E-mail:** chandresh1968@yahoo.co.in  
chs@amd.svnit.ac.in

**Specialization** : Geotechnical Engineering

**Date of Birth** : 29 November 1968

## Academic Qualifications:

Degree	Subject	Institute	Year
Ph. D	Geotechnical Engineering	S V National Institute of Technology, Surat, Gujarat, India	2008
M. E.	Geotechnical Engineering	R.E.C., SGU, Surat, Gujarat, India	1994
B. E.	Civil Engineering	L.D. College of Engg., Gujarat University, Gujarat, India	1990

**Teaching Experience** : 24 Years

### Awards:

IGS - Shri. M. S. Jain Biannual Award for Best Paper on "Innovations in Pilling and other Foundation Construction Techniques" published through Indian Geotechnical Society.

### Professional Interests:

Dr Chandresh H. Solanki field of specializations are Sub Soil Characteristics, Predictions in Geotechnical Engineering, Ground Improvement, Geo-environmental Engineering, Soil-Structure Interaction, Pile Foundations and Geotechnical Earthquake Engineering.

**Consultancy** : Geotechnical Consultancy in SV National Institute of Technology, Surat, 1994 onwards

**Ph. D Scholars and Research work** : 6 Completed & 9 on progressive

**M. Tech. Dissertations** : 35 Completed

### Other Professional Activities:

*Member of The Executive Committee, The Indian geotechnical Society (IGS) For The Term 2015-2016.*

## Research Publications:

---

### National Journals:

V. J. Sharma, S. A. Vasanvala, **C. H. Solanki.**, (2015) “Behaviour of Cushioned Composite Piled Raft Foundation under Lateral Forces”, *Indian Geotechnical Journal*, Springer, 45(1):89–97 DOI 10.1007/s40098-014-0110-x, January–March 2015.

Uma Chaduvula, Atul K. Desai, **C. H. Solanki.**, (2014) “Application of Traingular Polypropylene Fibers on Soil Subject to Freeze-thaw Cycles” *Indian Geotechnical Journal*, 44(3):351–356 DOI 10.1007/s40098-013-0088-9, July–September 2014.

Uttam Kumar, Yogendra Tandel, **Dr. C. H. Solanki**, (2013) “Behavior of Geosynthetic Encased Sand Column In Soft Soil”, *International Journal of Engineering Research & Technology (IJERT)* ISSN: 2278-0181, Vol. 2 Issue 6, June – 2013.

Gohil D.P., A. K. Desai, **C. H. Solanki**, (2013) “Behavior of geogrid reinforced soil under earthquake loading”, *Construction Engineering*, Vol-1, issue -1, April -2013.

Y.K. Tandel, **C.H. Solanki**, A.K. Desai., (2013) “Laboratory Experimental Analysis on Encapsulated Stone Column” *Archives of Civil Engineering*, 01/2013; 59(3). DOI: 10.2478/ace-2013-0020.

Divyangini, Gohil, **Solanki, Chandresh H.**, Desai, Atul K. (2012) “Numerical Model for Earthquake Wave Energy Flow and Distribution”, *Global Journal of Engineering and Applied Sciences*, ISSN: 2249-2631 Vol 2(1), 2012.

Sharma, V. J., Vasanvala, S. A. and **Solanki, C. H.** (2012) “Comparison of increase in E for Sand cushion with single layer and double layer of Geotextiles”, *Global Journal of Engineering and Applied Sciences*, Vol 2 (1), 2012.

Tandel, Y., **Solanki, C.**, Desai, A., (2012) “Prediction of Settlement Improvement Factor for the Embankment Constructed on the Reinforced Granular Column”, *Journal of central south university (JCSU)*, 2012.

Divyangini, Gohil., **Solanki, Chandresh H.**, Desai, Atul K. (2012) ”Foundation Isolation for Seismic Protection using Synthetic Liner”. *Journal of Engineering Research and Studies* Vol III/ Issue II/ April-June, 2012 ISSN.

Sharma, V. J., Vasanvala, S. A. and **Solanki, C. H.** (2011) “Effect of Cushion on Composite Piled-Raft Foundation”. *Journal of Engineering Research and Studies*, Vol II, Issue IV, Pages 132-135, Oct-Dec 2011.

Sharma, V. J., Vasanvala, S. A. and **Solanki, C. H.** (2011) “Recent Studies on Piled-Raft Foundation: State of Art”. *Journal of Information, Knowledge and Research in Civil Engineering* Vol 1, Issue 2, pages 38-46, Oct 2011.

Vashi, Jigisha M., Desai, A. K. and **Solanki, C. H.**, (2011) “Geosynthetics in Pavements- State of Usage and Economic Feasibility”. Journal of Civil Engineering and Construction Review (CE&CR), pp.108-114, May 2011.

**Solanki, C. H.**, and Desai, M. D, (2008) “Role of Atterberg Limits On Time Rate Settlement of Alluvial Deposits.” Journal of Engineering and Technology Sardar Patel University, Vol-21, December 2008.

**Solanki, C. H.**, Desai M. D. and Desai, J. A., (2008) “Empirical Correlations for Compressibility Parameters of Alluvial Deposits”, Indian Geotechnical Journal, 38(3), 355-362, July 2008.

### **International Journals:**

Shailendra Kumar, **C. H. Solanki**, and B. K. Pandey, (2015) “Behaviour of Prestressed Geotextile-Reinforced Fine Sand Bed Supporting An Embedded Square Footing”, Int. J. of GEOMATE, June, 2015, Vol. 8, No. 2 (Sl. No. 16), pp. 1257-1262 Geotech., Const. Mat. and Env., ISSN:2186-2982(P), 2186-2990(O), Japan.

Shukla. S. J., Desai A.K. and **Solanki C.H.**, (2015) “A Behavioural Study of Dynamic Soil Structure Interaction For Piled Raft Foundation with Variable Sub Soils by Time History FEM Model”, Int. J. of GEOMATE, June, 2015, Vol. 8, No. 2 (Sl. No. 16), pp. 1288-1292, Geotech., Const. Mat. and Env., ISSN:2186-2982(P), 2186-2990(O), Japan.

Chavda Jitesh, Desai A.K., **Solanki C. H.**, (2014) “Parametric Study on Pile Wall Used As Retention System for Deep Excavations”, International Journal of Soil Mechanics & Foundations– IJSMF, Volume 1: Issue 2, 30 September, 2014.

Anand M.Hulagabali., **C. H. Solanki**, G. R. Dodagoudar, (2014) “Contaminant Transport Modeling through Saturated Porous Media Using Finite Difference and Finite Element Methods”, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684, p-ISSN: 2320-334X, PP 29-33, 2014.

Hulagabali. A. M., Dodagoudar. G. R., & **Solanki. C. H.**, (2014) “Migration of Contaminant through a Soil due to an Instantaneous Source”, International Journal of Advanced Research in Civil, Structural, Environmental and Infrastructure Engineering and Developing Volume: 1 Issue: 3 08-Apr-2014, ISSN\_NO: 2320-723X.

Gohil D.P., **Dr. C.H. Solanki**, Dr. A.K. Desai., (2013) “Performance of Shallow Foundation for Building Constructed on Geogrid Improved Ground Subjected to Earthquake Forces” International Journal of Emerging Technology and Advanced Engineering, ISSN 2250–2459, Volume 3, Issue 10, October 2013.

Manish H. Sharma, **Dr. C.H. Solanki.**, (2013) “Liquefaction Susceptibility Criterias for Zonation” International Journal of Engineering and Technical Research (IJETR), ISSN: 2321-0869, Volume-1, Issue-7, September 2013.

Sharma V.J., Vasanvala S. A., **Solanki, C. H.**, (2013) “Effect on Modulus of Elasticity Due to Inclusion of Geotextile Double Layer in Sand Cushion”, *Newbuilding Material and Construction World*, vol 19, Issue 3, pg 162-166, September 2013

Vashi, Jigisha M., Desai, A. K. and **Solanki, C. H.**, (2013) “Behavior of geotextile reinforced flyash + clay-mix by laboratory evaluation”. *Geomechanics and Engineering*, Vol. 5, No. 4, 2013.

Uma Chaduvula, Dr. A. K. Desai, **C. H. Solanki.**, (2013) “Effect of polypropylene fibre reinforcement on soil subjected to freeze thaw resistance”, *International journal of civil engineering and Applications (IJCEA)* vol -3 number 5, 2013.

Jigisha M. Vashi, Atul K. Desai, **Chandresh H. Solanki** (2013) “Analysis of Geotextile Reinforced Embankment on Difficult Subsoil Condition” *International Journal of Scientific & Engineering Research* Volume 4, Issue May-2013ISSN 2229-5518.

Gohil. D.P., **C.H. Solanki**, A.K. Desai, (2013) “Behavior of Geogrid Reinforced Soil under Earthquake Loading”. *Journal of Construction Engineering* Vol 1, Issue 1, April 2013.

Sharma, V. J., Vasanvala, S. A. and **Solanki, C. H.**, (2013) “Composite Piled Raft Foundation with Intermediate Cushion in Layered Soil Under Seismic Forces”, *Computational Methods in Civil Engineering* Vol 3(2), 2013.

Maheshwari K, Desai A, **Solanki C**, (2013) “Bearing Capacity of Fiber Reinforced Soil” *International journal of civil engineering and technology (IJCIET)*, ISSN -0976-06308(print) ISSN-0976-06316 online, vol-4 issue- 1, pp159-164, Jan-Feb 2013.

Yogendra K. Tandel, **Chandresh H. Solanki**, and Atul K. Desai., (2013) “3D FE Analysis of an Embankment Construction on GRSC and Proposal of a Design Method”, *Hindawi Publishing Corporation ISRN Civil Engineering* Volume 2013, Article ID 348973, 11 pages <http://dx.doi.org/10.1155/2013/348973>.

Manish H. Sharma and **Dr. C.H. Solanki.**, (2013) “Liquefaction Hazard Mapping”, *International Journal of Civil Engineering and Technology (IJCIET)*, ISSN 0976 – 6308 (Print), ISSN 0976 – 6316 (Online) Volume 4, Issue 1, January- February (2013), © IAEME.

Sharma, V. J., Vasanvala, S. A. and **Solanki, C. H.**, (2012) “Behavior of Composite Piled Raft Foundation with Intermediate Cushion in Layered Soil Under Seismic Forces”, *International Journal of Applied Engineering and Technology* Vol 2(3), July-September 2012.

Rajagopal C. , Solanki C. H. , Tandel Y. K., (2012) “Comparison of Static and Dynamic Load Test of Pile”, *EJGE - Electronin Journal of Geotechnical Engineering*, Vol. 17, 2012, Bund. M.

Tandel, Y., **Solanki, C.**, Desai, A., (2012) “Reinforced Stone Column: Remedial of Ordinary Stone Column”, *International journal of advances in engineering and technology (IJAET)*, ISSN 2231-1963,vol.3, issue 2, pp. 340-348, May 2012.

Sharma, V. J., Vasanvala, S. A. and **Solanki, C. H.**, (2012) “Improvements in Modulus of Elasticity of Sand Cushion Using Single Layer of Geotextile”. International Journal of Multidisciplinary Research and Advances in Engineering Vol 4, No II, April 2012.

Sharma, V. J., Vasanvala, S. A. and **Solanki, C. H.**, (2012) “Composite Piled Raft Foundation With Intermediate Cushion In Layered Soil Under Seismic Forces”, Computational Methods in Civil Engineering, Vol. 3, 2 (2012) 15-28.

Jigisha M. Vashi , Atul K. Desai, **Chandresh H. Solanki**, (2012) “Assessment of reinforced embankment on soft soil with PET and PP Geotextile” International Journal of Civil And Structural Engineering, ISSN 0976-4399, vol. II, no.03,pp. 819-828, 2012.

Tandel, Y., **Solanki, C.**, Desai, A., (2012) “Reinforced Granular Column for Deep Soil Stabilization- A review”, International Journal of Civil and Structural Engineering, ISSN0976-4399, vol. II, no. 03, pp. 711-721, 2012.

Tandel, Y., **Solanki, C.**, Desai, A., (2012) “Numerical modeling of encapsulated stone column-reinforced ground”, International journal of civil, structural, environment and infrastructure engineering research and development (IJCSEIERD), ISSN 2249-6866, vol. II, issue 1, pp. 82-96, March 2012.

Gohil, D., Desai, A. and **Solanki, C.**, (2012) “Numerical model for earthquake wave energy flow and distribution”, Global journal of engineering & applied sciences (GJEAS), ISSN 2249-2623, vol.2, issue-1, 2012.

Gohil D, **Solanki C**, Desai A (2011) “Evaluation of the Interactive Forces and the Moment for the Soil-Geosynthetic-Foundation-Building System under Earthquake Loading”, EJGE, Vol. 16 [2011], Bund C.

Shukla, S., Desai, A. and **Solanki, C.**, (2011) “Behavioural study of piled raft foundation in alluvial deposits of south Gujarat region”, International journal of advanced engineering technology (IJAET), ISSN 0976-3945, 2011.

Vashi, J., Desai, A. and **Solanki, C.**, (2011) “Mixtrue of soil & flyash as RE wall backfill”, Australian geomechanics journals, ISSN 0818-9110, vol. 46, no.4, pp. 103-106, December 2011.

Vashi, Jigisha M., Desai, A. K., Desai, M. D. and **Solanki, C. H.**, (2011) “Significance of Creep Compatibility Study for Geosynthetics in Compacted Fill”, International Journal of Earth Sciences and Engineering ISSN 0974-5904, Volume 04, No 06 SPL, October 2011.

Dalal, N., **Solanki, C.**, and Desai, A., (2011) “Low pressure cement grouting to improve bearing capacity of old waste dump site for economical foundations of low cost housing “, New building materials & construction world, NBM&CW, ISSN 0973 – 0591, vol.17, issue-4, pp.190-200, October 2011.

Maheshwari, K. and Desai, A. and **Solanki, C.**, (2011) “Performance of Fiber Reinforced Clayey Soil”, International Journal of Geotechnical Engineering (IJGE), vol. 16, June 2011.

Vashi, J., Desai, A. and **Solanki, C.**, (2011) “Study on cohesive soil and fly a Ash mixture as reinforced earth wall filling material”, New building materials & construction world NBM & CW, ISSN 0973 – 0591, vol. 16, issue 10, pp. 220-224, April 2011.

Dalal, Nehal Gaurav., Solanki, **Chandresh H.**, Desai, Atul K., (2011). “Cement Grouting: An Alternative Ground Improvement Technique for Municipal Waste Dump Site”. World Applied Sciences Journal 12 (8): 1240-1244, 2011.

Shukla, S., Desai, A. and **Solanki, C.**, (2011) “Behavioural study of piled raft foundation in layered soil deposits”, International journal of advanced engineering technology (IJAET), ISSN 0976-3945, Vol.II, Issue IV, October-December, 2011/191-195.

Dalal, N., **Solanki C.**, and Desai, A., (2011) “Plate load tests on municipal solid waste dump site to assess ground improvement alternatives”, Journal of environmental science and engineering, USA, ISSN 1934-8932, pp. 910- 914, July 2011.

Vashi, J., Desai, A. and **Solanki, C.**, (2011) “Geosynthetics in pavement state of usage and economical feasibility”, Journal of civil engineering and construction review (CE&CR), ISSN 0975-9034, pp.108-114, May 2011.

Vashi, J., Desai, A. and **Solanki, C.**, (2011) “Creep Compatibility Study for Geosynthetics in Compacted Fill”, International journal of advanced engineering technology (IJAET), ISSN 0976-7916, vol. II, issue IV, 2011.

Vashi, J., Desai, A. and **Solanki, C.**, (2011) “Review on factors considered & rarely considered in design of earth retaining structures”, world applied science journal (WASJ), ISSN 1818-4952, vol. 14, no.1, pp. 114-120, 2011.

Maheshwaei, K., **Solanki, C.** and Desai, A., (2010) “A study on design and cost of flexible pavement in fiber reinforced highly compressible clay”, International journal of applied engineering research, ISSN 0973-4562, vol. 05, no. 03, pp. 431-439, 2010.

**Solanki. C.H.**, Desai. M. D., Desai. J.A., (2010) “Quick Settlement Analysis of Cohesive Alluvial Deposits using New Empirical Correlations”, Journal of Civil Engineering Research and Practice. Vol 7, No 2, 2010, ISSN: 1729-5769.

Siddharth G. Shahb, Desai.J.A., **Solanki.C.H.**, (2010) “Effects of Pylon Shape on Seismic Response of Cable Stayed Bridge with Soil Structure Interaction”, International journal of Civil & Structural Engineering, ISSN 0976 – 4399, Vol-1, No-3, 2010, pp 667- 682.

Maheshwari, Kalpana and **Solanki, C. H.**, (2009) “Behavior of Fiber Reinforced Soil”, Australian Geomechanics, Vol 44 no 4, December 2009.

**Solanki, C. H.**, Desai M. D. and Desai, J. A., (2008) “Statistical Analysis of Index and Consolidation Properties of Alluvial Deposits and New Correlations”, International Journal of Applied Engineering Research, Vol. 3 (5), June 2008.

## **Conference / Seminar**

---

---

### ***National Conference / Seminar***

Manish H. Sharma, **Solanki. C. H.**, (2013) “Evaluation of Liquefaction Potential of an Area”, Short Term Training Programme on Geotechnical Investigation, Interpretations and Improvements, (GIII-2013), Surat October 2013.

Uma Chaduvula, Dr. A. K. desai, **Dr. C. H. Solanki.**, (2013) “Application of Triangular Polypropylene Fibers on Soil Subjected to Freeze Thaw Cycles”, National Seminar on Advances in Geotechnical Engineering , SVNIT, Surat, June 2013.

K. V. Maheshwari, Dr. A. K. desai, **Dr. C. H. Solanki.**, (2013) “Innovative ground improvement method for road construction”, National Seminar on advances in Geotechnical Engineering, SVNIT, Surat, June 2013.

Vashi, J., M., Desai, A., **Solanki. C. H.**, (2013) “Reinforced Earth Embankment with Fly Ash Backfill”, 2<sup>nd</sup> National Seminar cum Workshop on Use of Flyash in Construction, UFAC 13, Surat 2013.

Manish H. Sharma, **Solanki. C. H.**, (2013) “Liquefaction Susceptibility Criteria’s for Zonation Mapping”, Advances in Geotechnical Engineering (AGE-2013), Surat 2013.

Gohil D. P., Dr. A. K. desai, **Dr. C. H. Solanki.**, (2013) “Shear stress response under shallow foundation rest on reinforced soil against seismic loading“ National Seminar on advances in Geotechnical engineering , SVNIT, Surat, June 2013.

Shailendra Kumar, **Solanki. C.H.**, (2013) “Bearing Capacity Improvement of Embedded Square Footing on Geotextile Reinforced Sand” National Seminar on Advances in Geotechnical Engineering, SVNIT, Surat, June 2013.

Nehal G. Dalal, Dr. A. K. desai, **Dr. C. H. Solanki.**, (2013) “Numerical analysis of improvement of bearing capacity of open waste dump site using geo synthetics“ National Seminar on advances in Geotechnical engineering , SVNIT, Surat, June 2013.

Doshi D. P, Dr. A. K. desai, **Dr. C. H. Solanki.**, (2013) “Innovative techniques of micro piles for Embakement Foundation”, National Seminar on advances in Geotechnical engineering , SVNIT, Surat, June 2013.

Doshi, D., Desai, A., **Solanki. C. H.**, (2012) “Micropiling For Retrofitting Of Structures”, Structural Engineering Convention (SEC-12), SVNIT, Surat, 19-21 December.



Gohil, D., P., Desai, A., **Solanki. C. H.**, (2012) “Effect of Soil-Geosynthetic Structure Interaction”, Structural Engineering Convention (SEC-12), SVNIT, Surat, 19-21 December.

Maheshwari, K., V., Desai, A., **Solanki. C. H.**, (2012), “Analytical Modeling Of Foundation Resting On Fiber Reinforced Clayey Soil”, 8<sup>th</sup> Biennial Conference on Structural Engineering Convention (SEC-12), SVNIT, Surat, 19-21 December 2012.

Shukla, S., J., Desai, A., **Solanki. C. H.**, (2012), “Behavioural Study of MultiStorey Building with Piled Raft Foundation over Raft Foundation for Static Loading”, Structural Engineering Convention (SEC-12), pp: 529-533, SVNIT, Surat, 19-21 December.

Tandel, Y., K., Desai. A., **Solanki. C. H.**, (2012) “Application Of Pervious Concrete For Strengthening Of Stone Column For Ground Improvement”, Structural Engineering Convention (SEC-12), SVNIT, Surat, 19-21 December.

Vashi, J., M., Desai, A., **Solanki. C. H.**, (2012) “Geotextile Reinforced Steep Embankment (GRSE) on weak ground”, Structural Engineering Convention (SEC-12), SVNIT, Surat, 19-21 December 2012.

Sharma V.J., Vasavalva S. A., and **Solanki. C. H.**, (2012) “Effect of Elasticity Modulus of Cushion on Properties of Composite Pile Raft Foundation”, Structural Engineering Convention (SEC-12), pag: 549-553, SVNIT, Surat, 19-21 December 2012.

Manish H. Sharma, **Solanki. C. H.**, (2012) “Liquefaction Hazard Mapping”, Structural Engineering Convention (SEC-12), SVNIT, Surat, 19-21 December 2012.

Vashi, J., Desai, A., **Solanki. C.**, Desai, M., (2011) “Gabion GRS walls for Raising Solid Waste Dump Site at Surat-Case Study”, Indian Geotechnical Conference, Kochi, Kerala, 15-17 December 2011.

Maheshwari, K, **Solanki. C.H.**, Desai, A.K., (2011) “Application and Modeling for Fiber Reinforced Soil”, Proceeding of Indian Geotechnical Conference, Kochi, Kerala, pp: 497-500, December 2011.

Dalal, N., **Solanki, C.** and Desai, A., (2011) “Geosynthetics used as a ground improvement technique for the municipal solid waste landfill site”, National seminar on advance in geotechnical engineering (AGE), Indian geotechnical society, AMD, SVNIT, Surat, 8-9 October 2011.

Vashi, J., Desai, A., **Solanki. C.**, (2011) “Effect of strain rate on stress strain characteristics of geotextile”, Two days national workshop: Advances in geotechnical engineering- AGE, AMD, SVNIT, Surat, 08-09 October 2011.

**Solanki. C.H.**, (2011) “Study on Recent Development in Sand Column”, Two Days National Workshop – AGE Advances in Geotechnical Engineering, SVNIT, Surat, October 2011.

Maheshwari, K., Desai, A, **Solanki. C.H.**, (2011) “Fiber Reinforced Earth for Canal Lining”, Two Days National Workshop – AGE Advances in Geotechnical Engineering, SVNIT, Surat, October 2011.

Dipali joshi, Dr. A.K. Desai, **Dr C.H. Solanki**, (2011) “Multi Helix Micropile for Retrofitting of Bridge Foundations”, Innovation in Piling and other Foundation Construction Techniques, IGS (2011), Kochi, page no 247 to 250. (**Best Paper Award**)

Vashi, J., Desai, A., **Solanki, C.**, (2011) “Important properties emphasis to GRS structures”, National conference on new horizon for sustainable tomorrow (NHST), at Surat, 18-19 February 2011.

Maheshwari, K., Desai, A, **Solanki. C.H.**, (2011) “Actual Full Scale Load Test on Fiber Reinforced Clayey Soil”, National Conference on Recent Advances in Ground Improvement Techniques, CBRI, Roorkee, Feb 2011.

Tandel, Y., **Solanki, C.**, Desai, A., (2011) “Recent Advance in Reinforced Stone Column Technique”, National Conference on Recent Advances in Ground Improvement Techniques, CBRI, Roorkee, Feb 2011.

Berawala, K. S., **Solanki, C. H.**, (2010) “Empirical Correlations of Expansive Soils Parameters for the Surat Region”, Indian Geotechnical Conference-2010, GEOTrendz, December 16–18, 2010, IGS Mumbai Chapter & IIT Bombay.

Maheshwari, K, **Solanki. C.H**, Desai, A.K., (2010) “Model Footing Tests on Fiber Reinforced Soil”, Indian Geotechnical Conference, Geotrendz, pp: 16-18, Bombay, December 2010.

Gohil, D., **Solanki. C.H.** & Desai, A., (2010) “Model Earthquake Wave Energy Flow and Distribution”, Indian Geotechnical Conference, IIT Bombay, December 2010.

Dalal, N., **Solanki, C.** and Desai, A, Desai M. D., (2010), “Pilot study to improve bearing capacity of open dump waste site for low rise housing”, India Geotechnical Conference – 2010, GEOTrendz, IIT Bombay, December 16-18, 2010.

Dalal, N., **Solanki, C.** and Desai, A. (2010), “Pilot Studies for feasibility of Open waste dump site to improve the bearing capacity for low cost housing”, Indian Geotechnical Conference’10, IITB December 2010.

Vashi, J., Desai, A., **Solanki, C.**, Desai, M., (2010), “State of art: Factor influenced in design of earth retaining structure”, Indian geotechnical conference, at IITB, Mumbai, 16-18 December 2010.

Vashi, J., Desai, A., **Solanki, C.**, Desai, M., (2010) “Geosynthetic material and its properties for reinforced earth structure”, All India Seminar on Geosynthetic in Civil Engineering, The Institution of Engineers (India), Ahmedabad, 27-28 November 2010.

Vashi, J., Desai, A., **Solanki, C.**, Desai, M., (2010) “Fly ash as backfill material for reinforced earth structure”, National conference on fly ash/Futuristic materials in civil engineering construction for sustainable development, at V.V. Nagar, Anand, 12 August.

Shukla, S., Desai, A. and **Solanki, C.** (2010) “A detailed literature review of behavior of piled raft foundations”, Proc. Of national conference on improvement techniques in civil engineering (ITCE), Alagappachettiar college of engineering and technology, Karaikudi, 9th April 2010.

Dalal, N., **Solanki, C.** and Desai, A. (2010) “Engineering properties of municipal solid waste landfill site: An overview”, current trends of research & development in civil & environmental engineering (CRDCE), SVIT, Vasad, Gujarat, 21-22 January 2010.

Gohil, D., **Solanki, C.** and Desai, A. (2010), “A study: To improve ground by geosynthetics”, Current trends of research & development in civil & environmental engineering (CRDCE), SVIT, Vasad, Gujarat, 21-22 January 2010.

Gohil, D., **Solanki, C.** and Desai, A., (2009) “Application of Geosynthetics for Ground Improvement: An Overview”, Indian Geotechnical Conference, Geotechniques in Infrastructure Development [GEOTIDE], Guntur, Andhra Pradesh, 17-20 December 2009.

**Solanki, C.H.**, (2009) “Empirical Model for Settlement of Shallow Foundation of Alluvial Deposits”, Indian Geotechnical Conference, Guntur, December 2009.

Maheshwari, K., Desai, A. and **Solanki, C.**, (2009) “Fiber reinforced soil – innovative modern technique”, National conference on current trends in technology (NUCONE), pp: 109-112, Nirma institute of technology, Ahmadabad, 25-27 November 2009.

**Solanki, C.H.**, (2009) “FEM Analysis and Design of Diaphragm Type Cellular Cell Using Straight Web Steel Sheet Pile”, ACSGE, BITS Pilani, 2009.

**Solanki, C.H.**, (2009) “Expansive Soils In India- Properties, Problems and case Study”, International Conference on Infrastructure Development on Expansive Soil-INDEX-09.

Nishant & **Solanki, C.H.**, (2006), “Study of Preconsolidation Pressure for Varying Compressible Soils”, National Conference on Corrective Engineering Practices in Troublesome Soils (CONCEPTS), IGS, Kakinada, July 2006.

**Solanki, C.H.**, (2006) “Soil Index and Consolidation Properties of Alluvial Soils-New Correlations”, IGC-2006, IIT, Madras, December 2006.

**Solanki, C.H.**, (2005) “Prediction and Performance of Consolidation Settlement of Shallow Foundations”, Indian Geotechnical Conference, Ahmedabad, 2005.

Shukla, S. J. & **Solanki, C.H.**, (2005) “Stone Column A Rational and Viable Solution for Environment and Economy”, Indian Geotechnical Conference, Ahmedabad, 2005.

**Solanki. C.H.**, (2001) “Modification of Geotechnical Characteristics of Strata for Suitability for Integrated Solid Waste Management Project”, Indian Geotechnical Conference, Indore, 2001.

### **International Conference / Seminar**

**Solanki. C.H.**, (2014) “Consolidation Parameters From Atterberg Limits- New Correlations”, Fourth International Conference on Geotechnique, Construction Material and Environment, GEOMATE 2014 organized by the University of Southern Queensland, Australia & GEOMATE International Society, Brisbane, Australia, 19-21 November 2014.

Sharma, V. J., Vasavalala, S. A. and **Solanki, C. H.**, (2014) “Behaviour of Load Bearing Components of Cushioned Composite Piled Raft Foundation”, Elsevier, Proceedings of 3<sup>rd</sup> International Conference on Recent Trends in Engineering & Technology (ICRTET’2014), pag: 821-828, Chandwad, 2014.

Jigisha M. Vashi, Atul K. Desai, **Chandresh H. Solanki**, (2013) “Evaluation of PET and PP Geotextile Reinforced Embankment on Soft Soil”, Chemical, Civil and Mechanical Engineering Tracks of 3rd Nirma University International Conference, Elsevier (2013) 19 – 24.

Dalal, N., **Solanki, C.** and Desai, A., (2013) “Geotechnical Properties of Old Municipal Solid Waste Site”, International Conference on Computing, Engineering and Technology Sciences, Bangkok, Thailand, March 2013.

Kalpna Maheshwari, Dr. Atul Desai & **Dr. C. H. Solanki**, (2012) “Analytical Modeling of Flexible Pavement Resting on Fiber Reinforced Clayey Soil”, Indian Geotechnical Conference, December 13-15, 2012, New Delhi.

Jigisha M. Vashi, Atul K. Desai and **Chandresh H. Solanki**, (2012) “Feasibility Studies Of Geotextile Reinforced Steep Embankment On Poor foundations As Alternative To Reinforced Earth Wall In Indian Environment” Proceedings of the International Conference on Ground Improvement and Ground, Wollongong, Australia, ISBN: 978-981-07-3560-9, November-2012.

Vashi, J., Desai, A., **Solanki, C.**, (2012) “Espousal of fly ash+ clay as innovative backfill material for construction of reinforced bridge embankment”, 2nd International conference ICCEBS, at Bali, Indonesia, 30 June- 1st July 2012.

Vashi, J., Desai, A., **Solanki, C.**, (2011) “Geosynthetic - Alternative material for low cost pavement”, 2nd International conference (NUiCONE) at nirma institute of technology, Ahemdabad, 08-10 December 2011.

Gohil, D., **Solanki, C.**, Desai, A., (2011) “The interactive forces and the moment for the soil-geosynthetic-foundation-building systems under earthquake loading”, international symposium on advances in ground technology and geo-information (IS-AGTG), Singapore, 1-2 December 2011.

Vashi, J., Desai, A., **Solanki, C.**, (2011) “Significance of creep compatibility study for geosynthetic compacted field”, International conference on advanced civil engineering (ICACE), Vaddeswaram, Guntur, A.P., India, 21- 23 October 2011.

Kalpana Maheshwari, Dr. Atul Desai & **Dr. C. H. Solanki**, (2011) “New Technique for Ground Improvement for Road and Building Construction”, Geo-Innovation Addressing Global Challenges, 14th Pan-American Conference on Soil Mechanics and Geotechnical Engineering October 2-6, 2011, Toronto, Ontario, Canada.

Gohil, D., **Solanki. C** and Desai, A., (2010) “Geosynthetics for ground improvement: An overview”, Sixth international congress on environmental geo-techniques, New Delhi, India. 8-12 November 2010.

Dalal, N., **Solanki, C.** and Desai, A., (2010) “Geotechnical Aspects of Municipal Solid Waste Landfill Site: A case Study of Surat City”6th International Congress on Environmental Geotechnics at New Delhi, 8th to 12th November, 2010.

Vashi, J., Desai, A., **Solanki, C.**, (2010) “Innovative Environment Friendly New Material for the Road Construction”, International Conference, Cairo, Egypt, 2010.

**Solanki. C.H.**, (2010) “Quick Computation of Settlement for Shallow Foundation of Alluvial Deposits”, International Conference on Chemical, Civil and Environment Engineering (ICCEE-2012), Dubai (UAE), March 2010.

Dalal, N., **Solanki, C.** and Desai, A., (2009), “State of the art Review of Seismic Behavior and Field Performance of Cover and Liner systems of Solid Waste Landfills”International conference on Advances in Concrete, Structural and Geotechnical Engg., Bits Pilani, Rajasthan, 25-27, Oct. 2009.

Maheshwari, K., **Solanki, C.** and Desai, A., (2009), “performance of the fiber reinforced soil”, International Conference on Advances in Concrete, Structural and Geotechnical Engineering (ACSGE), Bits pilani, India, 25-27 October 2009.

**Solanki. C.H.**, (2008) “Preconsolidation Pressure from Soil Index and Plasticity Properties”, The 12<sup>th</sup> International Conference of International Association for Computer Methods and Advances in Geomechanics (IACMAG), Goa, October 2008.

**Solanki. C.H.**, (2008) “Coefficient of Consolidation from Plasticity Characteristics of Soil”, Proceedings of the BGA International Conference on Foundation, Dundee, Scotland, June 2008.

**Solanki. C.H.**, (2008) “Significance of Atterberg Limits on Compressibility Parameters of Alluvial Deposits- New Correlations”, Australian Geomechanics, Australia, March 2008.

### **Expert Lectures:**

---

<b>Sr. No.</b>	<b>Title</b>	<b>Venue</b>	<b>Month/ Year</b>
1.	Geotechnical Information's	STTP on Advances in Geotechnical	December

		Engineering, SVNIT, Surat	2008 January 2009
2.	Empirical Model for Settlement of Shallow Foundation	STTP on Advances in Geotechnical Engineering, SVNIT, Surat	December 2008 January 2009
3.	Foundation for Structure	Advances in Steel Structures	August 2009
4.	Geotechnical Resources	STTP on Geotechnical Investigations, Interpretations and Improvements, SVNIT, Surat	August 2009
5.	Geotechnical Investigations	STTP on Geotechnical Investigations, Interpretations and Improvements, SVNIT, Surat	January 2010
6.	Research Paper Review	STTP on Geotechnolgy for Infrastructure Development, SVNIT, Surat	January 2010
7.	Geotechnical Investigations & Parameters	National Workshop on Soil Exploration and Foundation Design, IGS Baroda	June 2010
8.	Sub Soil Geotechnical Investigation for Infrastructure projects	STTP on Geotechnical Investigations, Interpretations and Improvements, SVNIT, Surat	October 2013
9.	Predictions in Geotechnical Engineering	STTP on Geotechnical Investigations, Interpretations and Improvements,	October 2013
10.	Quick Settlement analysis of cohesive alluvial deposits using new empirical correlations for compressibility parameters	STTP on Geotechnical Investigations, Interpretations and Improvements, SVNIT Surat	October 2013
11.	Geotechnical Resources	STTP on Geotechnical Investigations, Interpretations and Improvements, SVNIT Surat	October 2013
12.	Geotechnical Investigations and parameters	L D College of Engineering, Ahmedabad	November 2013
13.	Geotechnical investigations for Structures	Datte Mega Engineering College, Navi Mumbai	December 2013
14.	Geotechnical Investigations and weak deposits	Mukesh A Patel Testing Laboratory, Ahmedabad	January 2014
15.	Geotechnical Investigations and identification of weak deposits	Finishing School cum Workshop on Ground Improvement Techniques, SVNIT, Surat	February 2014
16.	Geotechnical Earthquake Engineering- Liquefaction	Surat Urban Development Authority- SUDA, Surat	29 November 2014

**No. of Seminar / Conference / Workshop / Programme Organized:**

Sr. No.	Name of Conference / Seminar/ Programme	Venue	Month/ Year
1	Winter School for Staff Development on Advances in Geotechnical Engineering	SVNIT, Surat	29 <sup>th</sup> –December 2008 to 2 <sup>nd</sup> January 2009
2	Short Term Training Programme on Geotechnical Investigations, Interpretations and Improvements	SVNIT, Surat	10 <sup>th</sup> -14 <sup>th</sup> August, 2009
3	Short Term Training Programme on Geotechnology for Infrastructure Development	SVNIT, Surat	4 <sup>th</sup> -8 <sup>th</sup> January, 2010
4	Geotechnical Investigation & Case Studies	SVNIT, Surat	5 <sup>th</sup> June 2010
5	Short Term Training Programme on Advances in Geotechnical Engineering (AGE - 2011)	SVNIT, Surat	08-09 October 2011
6	Structural Engineering Convention (SEC-12), ,	SVNIT, Surat	19-21 December 2012
7	One Day Finishing Scholar on Overview of Ground Improvement Techniques	SVNIT, Surat	23 <sup>rd</sup> April, 2013
8	National Seminar on Advances in Geotechnical Engineering	SVNIT, Surat	7 <sup>th</sup> -9 <sup>th</sup> June, 2013
9	5 Days STTP on Geotechnical Investigations, Interpretations and Improvements	SVNIT, Surat	18 <sup>th</sup> -22 <sup>nd</sup> October, 2013
10	Finishing School Cum Workshop on Ground Improvement Techniques	SVNIT, Surat	11 <sup>th</sup> -12 <sup>th</sup> February, 2014
11	Short Term Training Programme on Advances in Geotechnical Engineering (AGE - 2014)	SVNIT, Surat	25 <sup>th</sup> June- 4 <sup>th</sup> July 2014
12	Finishing school cum workshop On Geotechnical aspects of foundation engineering	SVNIT, Surat	9 <sup>th</sup> -11 <sup>th</sup> October 2014

**Membership of Technical Societies:**

Sr. No.	Name of Association / Society	Category	Membership No.
1.	Indian Society of Technical Education	Life Member	10487
2.	Institution of Engineers (India)	Life Member	122233-8
3.	Indian Geotechnical Society	Life Member	LM- 2408
4.	International Society of Soil Mechanics & Geotechnical Engineering	Member 2006-09	IND060177

**Books & Edited Proceedings:**

---

<b>Sr. No.</b>	<b>Publication Details</b>	<b>Title of the Book</b>
1.	Lambert Academic Publications German, ISBN-13: 978-3-659-52607-7, 2014	Contaminant Transport Modeling through Saturated porous media using finite element and finite difference methods
2.	Scholar's Press, ISBN: 978-3-639-66152-1, 2014	New Empirical Correlations For Compressibility Parameters Of Alluvial Deposits
3.	Excel Indian Publishers, ISBN: 978-93-82062-40-0	Advances in Geotechnical Engineering (AGE-2013)

**Paper Reviewer in International and National Journals / Conferences / Seminars:**

*Total papers reviewed: Journals and Conferences- 25*

*Research thesis evaluation of other Institutes - 04*

1. Advances in Environmental Research - An International Journal ( Techno Press)
2. 3rd International Conference on recent trends in Engineering and Technology
3. National conference on Emerging Vistas of Technology in 21st Century