

# National Conference

## Geotechnical Engineering Practice and Sustainable Infrastructure Development (GEPSID-2014)

October 11 – 12, 2014

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### Session: S-1

Venue: Consultancy Hall

[11 October, 2014: 1545 to 1730 hrs]

Time (start)	Title of paper Author
1545hrs	Fibre-Reinforced Soils - Basic Developments <i>Sanjay Kumar Shukla, J N Jha</i>
1553 hrs	Significance of Geosynthetic Material in Mega Hydro Project <i>V K Mauriya, P K Yadav, V K Angra</i>
1601 hrs	Design and Construction of a Two-Tiered G-Strip® Reinforced Earth structure – A Case Study <i>Somnath Biswas, Atanu Adhikari, Swaroop B T</i>
1609 hrs	Settlement of Buildings in city of <i>Sunam</i> , district Sangrur Punjab - A Case Study <i>Parveen Chander, Rajesh Kumar, Bal Krishan</i>
1617 hrs	Case Studies on Failure of Retaining Walls <i>S K Prasad, N M Jagadeesh, C N Yadunandan</i>
1625 hrs	Settlement Behaviour of Piled-Raft Foundation in Clayey Soil <i>Kanwarpreet Singh, K S Gill, Prashant Garg</i>
1633 hrs	Experimental Study of Non-Destructive Test on Steel Fibre Reinforced Concrete <i>Mandeep Singh, Inderpreet Kaur</i>
1641 hrs	Model Study of Vertical & Batter Piles and Groups Subject to Lateral Load in Sands of Varying Density <i>Gurdeepak Singh, B S Walia, Pavitter Singh</i>
1649 hrs	Review of <i>Red Mud</i> derived Geo-Polymer-A Green Construction Material <i>Ranjit Prasad, Pritam Banerjee, Monu Kumri</i>
1657 hrs	Geotechnical Investigations for a Hydroelectric Project - A Case Study <i>R Chitra, Manish Gupta</i>
1705 hrs	Case Studies on Failure of Retaining Walls <i>S K Prasad, N M Jagadeesh, C N Yadunandan</i>
1713 hrs	Stability Assessment of <i>Chang Dam</i> <i>R Singh, D Roy</i>
1721 hrs	Design Charts for Simply Supported Slab-Beam System <i>Raghav Krishan Chadha, Ravinder Maurya, Amninder Singh Saini</i>
1730 hrs	Mechanical Properties of Fibre Reinforced Fly Ash Concrete <i>K. S. Bedi, Jashandeep Kaur, Tanu, Manu Nagpal</i>

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### Session: S-2

Venue: MBA Seminar Hall

[11 October, 2014: 1545 to 1730 hrs]

Time (start)	Title of paper Author
1545hrs	Geosynthetics Applications in Highway Construction In J & K: Sustainable Infrastructure Development <i>B A Mir</i>
1553 hrs	Granular Pile Anchors for Soft Marine Soils <i>Eswara Reddy O, Madhav M R, Saibaba Reddy, Saibara Reddy E, Vidyaranya B</i>
1601 hrs	Studies on the <i>Leachte</i> Characteristics of Compacted Fly ash Bed Treated with Lime Column <i>S Sangita, S P Singh</i>
1609 hrs	Embankments on Soft Ground: A Review <i>Madhira R Madhav, Abhishek Sakaleshpur</i>
1617 hrs	Effect on CBR Value and Ductility of Fine Grained Soil Stabilized with Sand & Human Hair as Natural Fibre <i>Y Prashar, Amandeep Singh, Harvinder Singh, J N Jha</i>
1625 hrs	Effect of Presence of Hard Strata on Bearing Capacity of Sand Subgrade <i>Abdresh Kumar Sinha, Kumari Sandhya, Anil Kumar Choudhary</i>
1633 hrs	Modeling of Liquefaction Phenomenon using Infinite Elements <i>Sunita Kumari, V A Sawant</i>
1641 hrs	Strength Evaluation of Subgrade Soil using In-Situ Tests <i>Daljeet Singh, J N Jha, K S Gill</i>
1649 hrs	Effect of Cement on Unconfined Compressive Strength of Clayey Soil <i>Ishfaq Ahmed Dar, Prashant Garg, K S Gill</i>
1657 hrs	Yield stresses of compacted soils: A comparative study <i>K Prakash, A Sridharan, H S Prasanna</i>
1705 hrs	Effects of Strength of Confining Material on Strength and Deformation of Stone Column <i>S P Singh, P K Chamling</i>
1713 hrs	Development of Environment Friendly and Low Cost Unburnt Stabilised Soil Bricks <i>Shakti, Rajesh Kumar</i>
1721 hrs	Effect of Phosphogypsum and Coir Fibres on Strength and Swelling Characteristics of Lime Stabilized Bentonite <i>Sujeet Kumar, Vidya Tilak B, Rakesh Kumar Dutta</i>
1730 hrs	Development of Intensity-Duration-Frequency Curves for the Rural Watersheds of Punjab <i>Sukhpreet Bhatia, Puneet Pal Singh Cheema, Akipeti S. Reddy</i>

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## Geotechnical Engineering Practice and Sustainable Infrastructure Development (GEPSID-2014)

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### Session: S-3

Venue: Workshop Seminar Hall

[11 October, 2014: 1545 to 1730 hrs]

Time (start)	Title of paper Author
1545hrs	Integrated Municipal Solid Waste Management Approach and Development of New Landfill Site for Jalandhar city, Punjab <i>M K Kaushik, Arvind Kumar, Ajay Bansal, Sanjeev Naval</i>
1553 hrs	An Adaptation of GIS Approach for Urban Planning and Sustainability <i>Prachi Shrivastva, Satya Prakash Maurya, Anurag Ohri</i>
1601 hrs	Comparative Study of Recycled Coarse Aggregate and Natural Aggregate <i>Gundeep Bansala, Rajesh Kumar</i>
1609 hrs	Discrete Optimisation of T-beam using Genetic Algorithm <i>Hatindera Singh, Hardeep Singh Rai, Jagbir Singh</i>
1617 hrs	Protective coating of Zn-Al alloy on TMT rebar for concrete application <i>Monalisa Kundu, S K Prasad, Virendra Kumar</i>
1625 hrs	Experimental Study of Shear Strength of High Strength Reinforced Concrete Beams <i>Balwinder Kaur, Harpal Singh</i>
1633 hrs	Utilisation of Hypo Sludge in M40 grade High Performance Concrete <i>Gurjit Singh Sidhu, Abhinandan Singh Gill</i>
1641 hrs	Shear Capacity of Self Compacting Concrete Beams: Experimental Study <i>Sukhwinder Singh, K S Bedi, Rajesh Kumar</i>
1649 hrs	Performance of Reinforced Concrete Buildings by Pushover Analysis <i>Virendra Kumar, Gopinath, Veeresh B Somnath</i>
1657 hrs	Fibre Reinforced Polymer in Reinforced Concrete Structures: Past, Present and The Future <i>Inderpreet Kaur, Hardeep Singh Rai, Harvinder Singh</i>
1705 hrs	Discrete Optimisation of RCC Beam and Cost Comparison between Ductile Detailing and without Ductile Detailing <i>Bikramjit Singh, Hardeep Singh Rai, Jagbir Singh</i>
1713 hrs	An Overview of Organic Corrosion Inhibitors for Steel in Concrete <i>Mamata Bal, Virendra Kumar, M M Prasad</i>
1721 hrs	Behaviour of Glass Fiber on Flexural Strength of Beam by Wet Bonding <i>Majid Jabbar, Inderpreet Kaur</i>
1730 hrs	A Comparative Study of Shear Wall Location/Configuration in a Framed System of Multi- Storey Building <i>Avnish Kumar, H S Rai, Harpal Singh</i>

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## Geotechnical Engineering Practice and Sustainable Infrastructure Development (GEPSID-2014)

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### Session: S-4

Venue: Consultancy Hall

[12 October, 2014: 0900 to 1045 hrs]

Time (start)	Title of paper Author
0900 hrs	Experimental and Analytical Studies on Under-reamed pile as Anchor Foundation in soft clay <i>Y S Golait, P PDahale, R N Jiwatode</i>
0908 hrs	30/6 Malin Landslide: A Case Study <i>Sarvade S M, Khadatare P S</i>
0916 hrs	Influence of Cement and Fly Ash on Compaction and Strength Properties of Clayey Soil <i>Manish Bhutani, B S Walia</i>
0924 hrs	Challenges and their Solution for Sustainable Infrastructure in India <i>Dinesh Kumar Malviya, S Ganesh, Nitin Sharma</i>
0932 hrs	Swelling and Compaction Characteristics of Black Cotton Soil mixed with Stone Dust <i>Vikas Malik, Akash Priyadarshee</i>
0940 hrs	An Experimental Investigations on CBR Improvement of Sand-Flyash Mix using Geogrid Layers <i>Rajiv Chauhan, R Sharma</i>
0948 hrs	Impact of Surkhi on GSB Layer as Replacement to the Stone Dust <i>Nishant Kumar, Vikas Kumar, Akash Priyadarshee, Anil Kumar Chhotu</i>
0956 hrs	Influence of Rise Husk Ash on the Properties of soil: A Review <i>Akash Priyadarshee, Arvind Kumar Agnihotri, Vikas Kumar, Anil Kumar Chootu</i>
1004 hrs	Strength Behaviour of Clayey Soil Reinforced with Human Hair as a Natural Fibre <i>Wajid Ali, B A Mir, J N Jha</i>
1012 hrs	Soil Characterization by Soil Resistivity Testing <i>Arvind Dhingra, Tejinder Singh, Ranjit Singh</i>
1020 hrs	Effect of <i>bagasse</i> ash stabilization of some properties of fine granular soils <i>Karan Gupta, J N Jha, B A Mir</i>
1028 hrs	Engineered Anti-erosion Works along the Banks of River <i>Ganga</i> <i>R Chitra, Manish Gupta</i>
1036 hrs	Utilization of Fly Ash with Plastic Wastes as Construction Materials in Flexible Pavement <i>A K Choudhary, Nimisha Roy, A K Sinha</i>
1045 hrs	Triaxial Tests on Fiber Reinforced Rice Husk Ash <i>V Srivastava, Charnjeet Singh, K S Gill, J N Jha</i>

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## Geotechnical Engineering Practice and Sustainable Infrastructure Development (GEPSID-2014)

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### Session: S-5

Venue: MBA Seminar Hall

[12 October, 2014: 0900 to 1045 hrs]

Time (start)	Title of paper Author
0900 hrs	Effect of Phosphogypsum and Coir Fibres on Strength and Swelling Characteristics of Lime Stabilized Bentonite <i>Sujeet Kumar, Vidya Tilak B, Rakesh Kumar Dutta</i>
0908 hrs	2-D Finite Element Modeling of Contaminant Transport in Saturated Media <i>R. S. Satavalekar, V. A. Sawant</i>
0916 hrs	Liquefaction Behaviour of Soils <i>Alok Ranjan, R. K.Swami, Uma Arun</i>
0924 hrs	Numerical Analysis of Slab with Opening <i>Pritpal Kaur, Harpal Singh</i>
0932 hrs	Characteristics of Pile-Raft Foundation in Sand: An Experimental Investigation <i>Abhishek, Prashant Garg, Gunpuneet Singh</i>
0940 hrs	Stabilization of Kaolinite Soil using Cement Kiln Dust <i>Gurdeepak Singh Kler, B.S.Walia, Sachin Chopra</i>
0948 hrs	Study of Liquefaction of Soil using Bore- Hole Data and Laboratory Test Results in Goa Region <i>Anup Naik, Raghvendra Prabhu, Gautami U Gaonkar</i>
0956 hrs	Increase in CBR Value of Clayey Soil by addition of Cement & Rubber Tyre Waste <i>Kamaljit Singh Wazir, B.S.Walia, Gurdeepak Singh Kler</i>
1004 hrs	Use of Rubber Tyre to Increase the Bearing Capacity of Soils <i>Rohin Kaushik, Ranjodh Singh</i>
1012 hrs	Utilization of Fly Ash with Plastic Wastes as Construction Materials in Flexible Pavement <i>A. K. Choudhary, Nimisha Roy, A. K. Sinha</i>
1020 hrs	Behavior of Piled-Raft Foundation in Layered Soil of Sand and Clay <i>Jatinder Pal Singh, Prashant Garg</i>
1028 hrs	Evaluation of Behavior of Polypropylene Fiber Reinforced Concrete Members <i>Lakhvir Kaur, Harjinder Singh</i>
1036 hrs	Effect of Pine Needle Stabilization on Strength Behavior of Clayey Soil <i>Sarfraz Ahmed Chowdhary, B. A. Mir, J. N. Jha</i>
1045 hrs	UASBR: Performance Evaluation for an Agro Industry Effluent Treatment <i>Rupinder Singh Litt, S. K. Sharma, Sharwan Kumar</i>



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## Geotechnical Engineering Practice and Sustainable Infrastructure Development (GEPSID-2014)

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### Session: S-6

Venue: Workshop Seminar Hall

[12 October, 2014: 0900 to 1045 hrs]

Time (start)	Title of paper Author
0900 hrs	Solid Waste Management through Composting: A Review <i>Preetinder Kaur, Amanpreet Kaur Sodhi, Prateek Singh</i>
0908 hrs	An Experimental Investigation of Raft Foundation with Friction Piles <i>Heena Malhotra, Prashant Garg, Harvinder Singh</i>
0916 hrs	An Overview Study of Water Cement Ratio, Admixtures and Curing on Carbonation of Concrete <i>Akshat Mahajan, Gaurav Nadda, Santokh Sra, K. S. Bedi</i>
0924 hrs	Performance Based Seismic Analysis of Symmetric RC Building considering Soil-Structure Interaction <i>Dhiraj Raj, Bharathi M, G. I. Prajapati</i>
0932 hrs	Mechanical and Durability Properties of Fly Ash Concrete Subjected to Elevated Temperature <i>Humaira Gulshan, K. S Bedi</i>
0940 hrs	Behaviour of Single Pile in Layered Soil <i>Prashant Garg, Ishfaq Ahmed Dar</i>
0948 hrs	Effect of Moisture Content in Carbonation of Silica Fume Concrete: Experimental Investigation <i>Harshdeep Singh, Nahida Nisar, K. S Bedi</i>
0956 hrs	Development of Intensity-Duration-Frequency Curves for the Rural Watersheds of Punjab <i>Sukhpreet Bhatia, Puneet Pal Singh Cheema, Akipeti S. Reddy</i>
1004 hrs	Perpetual Pavements - Redefining the Concept of Road Design and Construction <i>Sanjiv Kumar Aggarwal</i>
1012 hrs	Review on Suitability of Ground Improvement Techniques for Various Soils <i>Gurdeepak Singh, Manu Nagpal, Jashandeep Kaur</i>
1020 hrs	Recycled Concrete Aggregate: A Solid Wealth <i>Akshay Kaushal, Danish Malhotra, Jaspreet Singh, Leezu Goyal, Vivek Makkar</i>
1028 hrs	Effect of Soil Density on Bearing Capacity of Piled- Raft Foundation: An Experimental Study <i>Sukhminder Singh Toor, Abhishek, Prashant Garg</i>
1036 hrs	Effect of Bagasse Ash on Index Properties of Lime treated Black Cotton Soil <i>H. N. Ramesh, B. C. Udayashankar, S. Nethravathi, Lakshmi Priya</i>
1045 hrs	Investigation of Flow Behavior of Gases in Coal Matrix Sample by Simulation Model in Comsol Multi-Physics <i>Lalit Sirvi</i>