

***GEO*trendz**

Indian Geotechnical Conference

IGC-2010



December 16 – 18, 2010

IIT Bombay, Powai, Mumbai 400076, India



GEOtrendz



**Sessions Schedule
for
Indian Geotechnical Conference – 2010
(IGC – 2010)**

**December 16 – 18, 2010
IIT Bombay, Powai, Mumbai – 400 076, India**

Thursday, December 16, 2010

Time	Event	Venue	Chair/Co-Chair
8.00 am onwards	Registration	*CONVO FOYER	-
9.00 am to 10.30 am	Inaugural Session	Convocation Hall	-
	Awards by IGS	Convocation Hall	-
	Award by SP Foundation	Convocation Hall	-
10.30 am to 11.00 am	Inauguration of Exhibition and INAGURAL TEA	GUEST HOUSE LAWNS	-
11.00 am to 12.15 pm	32 nd IGS Annual Lecture – Dr. V. M. Sharma	PC SAXENA AUDITORIUM	Er. M. Bidasaria / Shri Jaibhagwan

* It is only for limited duration; Registration will be there at SOM Foyer.

Note: Proceedings/CD need to be collected separately using Coupons from the Author Desk in GG001 of Gaitonde Complex.

December 16, 2010

12.15 pm to 1.00 pm: Plenary Session 1

Keynote 1: Performance Monitoring of Vacuum Preloading for Stabilising Soft Foundations for Transportation and Port Infrastructure

Prof. Buddhima Indraratna

Corporate 1 (IVRCL Infrastructures & Projects Limited)

Venue: PC SAXENA AUDITORIUM

Chair/Co-Chair: Prof. M. R. Madhav / Maj. Gen. S. N. Mukherjee

1.00pm to 2.00 pm: LUNCH

Venue: GUEST HOUSE LAWNS

2.00 pm to 4.00 pm: Plenary Session 2

Keynote 2: Past and Future of Liquefaction

Prof. Shamsheer Prakash

Keynote 3: Seismic Design of Pile Foundations

Prof. S. P. Gopal Madabhushi

Keynote 4: Some Aspects of Soil-Structure Interaction in Geotechnical Engineering

Dr. Michael Lisyuk

Corporate 2 (Shapporji Pallonji and Company Ltd.),

Corporate 3 (AIMIL Ltd.)

Corporate 4 (ITD Cementation Ltd.)

Venue: PC SAXENA AUDITORIUM

Chair/Co-Chair: Prof. A. Sridharan / Prof. A. V. Shroff

4.00 pm to 4.30 pm: TEA

Venue: SOM WELL

4.30 pm to 6.00 pm: Parallel Session 1: Theme 1: Geotechnical issues of urban infrastructure (5 Contributed papers)
+ Theme 3: Tunnels and underground construction (4 Contributed papers)

December 16, 2010

Venue: PC SAXENA AUDITORIUM

Chair/Co-Chair: Shri Shyamal Mukherjee / Dr. Sunil S. Basarkar

Sr. No.	Abstract No.	Title of the Paper	Authors
T1P1	62	A Study of Behaviour of Piled Raft Foundation For Tall Building	S. J. Shukla, Desai A. K. and Solanki C. H.
T1P2	126	Challenges and Issues in the Modern Day Piling – Indian Scenario	S. S. Basarkar, R. R. Havaladar, Manish Kumar, and S. Salunkhe
T1P3	132	Control of swell – shrink behaviour of expansive clays using geosynthetics	V. K. Stalin, E. Ravi, and R. B. Arun Murugan
T1P4	257	Stabilization of Subgrade of Flexible Pavement with Admixtures	Gourhari Biswas, S. P. Mukherjee, B. C. Chattopadhyay and Sankar Chakraborty
T1P5	354	Technology for rooftop harvesting for urban centres based on geotechnical aspects	M. D. Desai, Pratima A. Patel and Ravin M. Tailor
T3P6	15	Behaviour of circular tunnel under varying soil medium	Kumar Venkatesh
T3P7	30	Challenges and Strategies in Tunnelling in Himalayan Region	Vinod Kumar Mauriya, Praveen Kumar Yadav And Vinod Kumar Angra
T3P8	233	Ground Respose Studies for the Design of Head Race Tunnel (HRT) of Chuzachen Hydroelectric Project, Sikkim	K. S. Rao, Varun M. and T. P.Thaker
T3P9	388	Innovative Support System for Tunneling Below Arabian Sea	Tarun Datta, Renu R. Mahuli and Uday Kulkarni

4.30 pm to 6.00 pm: Parallel Session 2: Theme 2 (Site investigation by non-invasive techniques and site characterization)
(9 contributed papers)

December 16, 2010

Venue: IRCC AUDITORIUM

Chair/Co-Chair: Shri. P. Jagannatha Rao / Prof. Sanjeev Kumar

Sr. No.	Abstract No.	Title of the Paper	Authors
T2P1	48	A Multi-Frequency GPR Approach to Non-Invasive Subsurface Mapping	B. Divya Priya, G. Prashanth and G. Venkatachalam
T2P2	112	Site characterization at ekambareswara temple complex, kanchipuram, Tamilnadu	G. Kalyan Kumar, L. Kanagarathinam and G. R. Dodagoudar
T2P3	243	Hyperspectral Variable Band Selection Methodology to Assess Soil Salinity	M. Kala Muthumari and R. Vidhya
T2P4	265	On incorporating nonlinear soil response into seismic hazard zonation	T. V. N. Srinivas and Bhruti Sharma
T2P5	270	Applications of Non- Invasive Techniques for Site Investigations and Site Characterization of River Valley Projects	Khanna Rajesh and Alex Varughese
T2P6	283	Soil characterization based on Digital image analysis	Karisiddappa, Ramegowda and Shridhara.S.
T2P7	306	Need for Relook at Design Practice for Reinforced Earth Wall Foundations	Nirav B. Umrvavia, Jigisha M. Vashi and M. D. Desai
T2P8	356	CBR Predicted by Index Properties for Alluvial Soils of South Gujarat	Rashmi S. Patel and M. D. Desai
T2P9	407	Understanding level at acceleration and peak particle velocity – A Case Study	A. R. Katti, R. R. Mahuli and U.V. Kulkarni

4.30 pm to 6.00 pm: Parallel Session 3: Theme 4 (Geotechnical Earthquake Engineering)
(14 contributed papers)

December 16, 2010

Venue: GG101, GAITONDE COMPLEX

Chair/Co-Chair: Prof. A. Boominathan / Prof. S. K. Prasad

Sr. No.	Abstract No.	Title of the Paper	Authors
T4P1	17	Analysis of Reinforced Soil Wall – Effect of Kinematics and Non-Linear Backfill Response	G. V. N. Reddy, M. R. Madhav and E. S. Reddy
T4P2	40	Earthquake wave energy flow and distribution	Gohil D. P., C. H. Solanki, and A. K. Desai
T4P3	73	Seismic Behavior of RCC Shear Wall under Different Soil Conditions	Anand N., Mightraj C. and Prince Arulraj G.
T4P4	74	Yield deformation of a cohesive embankment	A. K. Dey
T4P5	185	Seismic hazard analysis for Chennai using kernel density estimation	Chethanamba K. R. and G. R. Dodagoudar
T4P6	199	Seismic site characterization in India and rock depth Issues	Anbazhagan P. and A. Parihar
T4P7	232	Seismic Hazard Analysis for Surat City and Surrounding Region, Gujarat	T. P. Thaker, K. S. Rao and K. K. Gupta
T4P8	236	Shear Wave Velocity Profiling for Lucknow Urban centre using Seismic Refraction Survey	Abhishek Kumar, P. Anbazhagan and T. G. Sitharam
T4P9	256	Seismic response of geosynthetic reinforced soil slopes	G. Madhavi Latha and N. Varman
T4P10	315	Seismic slope stability analysis of tailings earthen dam using TALREN4	D. Chakraborty and Deepankar Choudhury
T4P11	357	Behaviour of soil under cyclic loading	M. E. Raghunandan and A. Juneja
T4P12	360	A Critical Study on Seismic Design of Retaining Structures	Amey D. Katdare and D. Choudhury
T4P13	405	Seismic displacement of retaining wall with reinforced backfill	S. K. Saran and M. N. Viladkar
T4P14	314	Computation of fundamental period of soil deposit – A Comparative study	K. V. Vijayendra, S. K. Prasad, and Sitaram Nayak

4.30 pm to 6.00 pm: Parallel Session 4: Theme 5 (Earth and earth retaining structures)
(9 Contributed papers)

December 16, 2010

Venue: GG002, GAITONDE COMPLEX

Chair/Co-Chair: Prof. Nitin N. Som / Prof. K. S. Beena

Sr. No.	Abstract No.	Title of the Paper	Authors
T5P1	3	State of Art : Factors influencing design of earth retaining structures	Vashi, Jigisha M., Desai A. K., Solanki C. H. And Desai M. D.
T5P2	293	Modified two wedge failure mechanism for reinforced soil walls	P. K. Jayasree, K. Rajagopal and Sibi Joy
T11P3	342	3D-Simulation of underground excavation process	Moataz A. A., N. K. Samadhiya and M. N. Viladkar
T11P4	353	Effect of non-homogeneity of ground on ultimate pullout capacity of granular pile anchors	B. Vidyaranya , M. R. Madhav and M. Kuma
T11P5	182	Numerical Modelling of rigid faced reinforced soil walls under seismic shaking	A. Bhattacharjee and A. Murali Krishna
T11P6	371	Constitutive modeling of anisotropic behavior of natural clays	Martin D. L., J. S. Vinod and B. N. Indraratna
T6P7	399	Prediction of shear strength parameter for prototype riverbed rockfill material using index properties	N. P. Honkanadavar and K. G. Sharma
T6P8	408	Experimental and fem analysis of the geotextile geotube	N. K. DAS, T. N. Mandal and J. N. Mandal
T4P9	376	Influence of flexible ground on seismic performance of structures	Prasad S. K. and Srikanta Prasad S.

6.30 pm onwards: Annual General Body Meeting (AGM) – Indian Geotechnical Society

Venue: PC SAXENA AUDITORIUM

7.00 pm to 8.00 pm: Presentation on Yoga by Prof. Shamsheer Prakash

Venue: IRCC AUDITORIUM

Chair: Prof. E. P. Rao

8.00 pm onwards: BANQUET DINNER

Venue: THE OLYMPIAD, HIRANADANI BUSINESS PARK, POWAI, MUMBAI- 400 076

Friday, December 17, 2010

Time	Event	Venue
8.30 am onwards	Registration	SOM FOYER

9.00 am to 11.00 am: Plenary Session 3

Keynote 5: Geotechnical Problems, Design and Construction of Cofferdam on Narmada River for Indira Sagar Project
(A Case - Study)

Er. Mahavir Bidasaria

Keynote 6: New Two Parameter Model with Uncoupled Moduli for Ground

Prof. M. R. Madhav

Keynote 7: Modified Stabilization Design Incorporating Clay Mineralogy of Soil

Prof. A. J. Puppala

Special 1: Fly Ash – Production, Variability and Possible Complete Utilization

Prof. R. C. Joshi

Corporate 5 (HEICO),

Corporate 6 (Maccaferri),

Corporate 7 (Mahavir Roads and Infrastructure Pvt. Ltd.)

Venue: PC SAXENA AUDITORIUM

Chair/Co-Chair: Prof. T. Ramamurthy / Prof. Vijay K. Puri

11.00 am to 11.30 am: TEA

Venue: SOM WELL

11.30 am to 1.00 pm: Special Session 1: Deep Foundations

Special 2: Design of Axially and Laterally Loaded Piles for the Support of Offshore Wind Energy Converters

Prof. Dr.-Ing. M. Achmus

Theme Speaker 1: Changing Scenario for the Piling Industry in India

Er. Manish Kumar

Contributed papers (8 No's)

Corporate 8 (Simplex Infrastructures Ltd.)

Venue: PC SAXENA AUDITORIUM

Chair/Co-Chair: Shri. Subrata Ray / Dr. V. Balakumar

December 17, 2010

Sr. No.	Abstract No.	Title of paper	Authors
T11P1	268	Effect of piles on response of raft foundations	Sandeep Rai and Baleshwar Singh
T11P2	138	Nonlinear 3D Finite Element Analysis of Pile Group Subjected to Lateral Load	K. B. Ladhane and V. A. Sawant
T11P3	247	Effect of compressive load on uplift capacity of pile groups embedded in sand	K. Shanker, P. K. Basudhar and N. R. Patra
T4P4	174	Seismic response of soil-pile foundation-structure system	Rajib Saha
T11P5	296	Lateral Response of Pile Groups Under Combined Loading in Sandy Soil	S. Karthigeyan
T11P6	302	Model Study of Vertical Rigid Piles Subjected To Central Inclined Loads	N. H. Joshi
T11P7	348	Dynamic soil-pile interactions and pile cap-soil-pile interactions in triangular pile groups	P. K. Emani and B. K. Maheshwari
T1P8	369	Group Efficiency Factor for Pile Groups in Clay Under Uplift Loading	R. Ayothiraman

December 17, 2010

11.30 am to 1.00 pm: **Special Session 2:** Ground Improvement**Special 3:** Ground Improvement Applications and Quality Control**Dr V R Raju****Theme Speaker 2:** Innovative Soft Clay Improvements Using Vacuum and Dynamic Compaction**Prof . R Y Liang**

Contributed papers (6 Nos.)

Corporate 9 (Keller Ground Engineering India Pvt. Ltd.)**Venue: IRCC AUDITORIUM****Chair/Co-Chair: Prof. S. R. Gandhi / Dr. Bindumadhava**

Sr. No.	Abstract No.	Title of paper	Authors
T8P1	100	Some Environmental Benefits of Dry Vibro Stone Columns in a Gas Based Power Plant Project	G. R. Chawla, V. R. Raju and Y. H. Krishna
T8P2	116	Strength and compressibility response of plastic waste mixed soil	G. L. Sivakumar Babu, S. Chouksey, G. Anoosha and K. Geetha Manjari
T8P3	99	Creep Rates of Granular Pile Reinforced Ground	M. R. Madhav, K. Suresh and E. C. Nirmala Peter
T8P4	339	Behaviour of Reinforced Stone Columns in Soft Soils: An Experimental Study	K. Ali, J. T. Shahu and K.G. Sharma
T8P5	341	Ground Improvement Using Displacement Type Sand Piles	M. Samanta, V. A. Sawant and G. Ramasamy
T8P6	11	Performance of drainage well in electro-osmotic consolidation experiment	J. H. S. Yee and Shenbaga R. Kaniraj

1.00 pm to 2.00 pm: LUNCH**Venue: GUEST HOUSE LAWNS**

2.00 pm to 4.00 pm: Parallel Session 5: Theme 8 (Ground Improvement - 1)
(12 Contributed papers)

December 17, 2010

Theme Speaker 3: Soil conditions and geotechnical solutions adopted for different structures
constructed at Visakhapatnam Port Trust
Er. K. Ramachandra Rao

Venue: PC SAXENA AUDITORIUM

Chair/Co-Chair: Prof. G. V. Rao / Prof. K. Ilamparuthi

Sr. No.	Abstract No.	Title of the paper	Authors
T8P1	2	Effect of Lime-Coir Fiber on Geotechnical Properties of Black Cotton Soil	H. N. Ramesh, K. V. Manoj Krishna and H. V. Mamatha
T8P2	4	Strength, durability and microstructural analysis of stabilized fly ash	Kishan Dharavath, N. Dindorkar, R. Srivastava and Tikaram Kafley
T8P3	8	Improvement of Clayey Sub Grade Using Waste Sand from English Indian Clay Limited	Shemy S. Babu, S. M. Nair, P. B. Rohit, N. Soman, M. Mohankumar and Gadha Hari
T8P4	46	The Effect Of Lime Stabilization On Properties Of Black Cotton Soil	K. Nadgouda and R. A. Hegde
T8P5	53	Prediction of Heave of Expansive Clay Reinforced with Granular Pile Anchors	A. Sreerama Rao and V. Padmavathi
T8P6	58	Improvement Of B. C. Soil Using Geofom Prefabricated Vertical Drain	P. B. Daigavane, G. M. Dawande, S. W. Gulhane and N. D. Chaudhari
T8P7	69	Bearing capacity of reinforced granular bed on soft nonhomogeneous clay	K. Rajyalakshmi, M. R. Madhav and K. Ramu
T8P8	70	Response Of Strip Footings Supported On Granular Trench	N. Unnikrishnan, A. S. Johnson, and S. Rajan
T8P9	71	Road construction in Assam by using coirmat	Utpal Kumar Baruah, B. D. Saikia and P. K. Bora
T8P10	98	Strength and Compressibility of Soft Clay after Vacuum Preloading	G. Sridhar and R. G. Robinson
T11P11	72	Performance of Footing on Sand Bed With and Without Reinforcement	W. Mohamed and Ilamparuthi K.
T10P12	207a	Case Study: Ground Improvement Using Stone Columns and PVD	Eldho.C. A

Parallel Session 6: Theme 11 (Numerical and Physical Modelling – 1)
(16 Contributed papers)

December 17, 2010

Venue: IRCC AUDITORIUM

Chair/Co-Chair: Prof. V. S. Chandrasekaran / Dr. G. R. Dodagoudar

Sr. No.	Abstract No.	Title of Paper	Authors
T11P1	12	Interference Effect of Two Nearby Square and Rectangular Footings	Priyanka Ghosh and Anirudh Sharma
T11P2	26	Model Footing Tests on Fiber Reinforced Soil	Maheswari K. V. , A. K. Desai and C. H. Solanki
T11P3	29	Experimental Study on Load Settlement Behaviour of Sand Foundation	T. K. Nagaraj and P. B. Ullagaddi
T11P4	45	Computation of Sodium and Chloride Migration through Layered Soil Media Using FDM	R. Chakraborty and Ambarish Ghosh
T11P5	65	Uplift Capacity of Plate Anchors With Reinforcement	Supia Khatan and B. C. Chottopadhyay
T11P6	109	Strain Contours for Footing in Finite Layer	Madhav Madhira and Lakshman Rao
T11P7	110	Numerical simulation of hypoplastic constitutive model for sand	Adarsh S. C. and G. R. Dodagoudar
T11P8	111	Granular anchor pile system for resisting uplift forces	V. A. Sawant, Pradeep Kumar and Gopal Ranjan
T11P9	121	Stability of Tall Structures Founded on Soft In-Elastic Ground	V. Padmavati, Madhira R. Madhav and N. Saha
T11P10	150	Interactive Analysis of Plane Frames on Non-Homogeneous Soils	S. Vernekar, N. Naik and G. R. Velingkar
T11P11	205	Estimation of liquid and plastic limit using artificial neural network models	Yeetendra Kumar, Vijay Kumar and K. Venkatesh
T11P12	209	Study of Edge Stresses and Deflections in Whitetopping Overlay on Winkler Foundation	D. R. Jundhare, K. C. Khare and R. K. Jain
T11P13	226	Development of empirical equation for compressibility of marine clays	Balla Satyanarayana and C. N. V. Satyanarayana Reddy
T11P14	229	Numerical simulation of direct shear test for rock	A. K. Shrivastava and K. S. Rao
T11P15	230	Estimation of contact area undergoing shearing for the rock mass	A. K. Shrivastava and K. S. Rao
T11P16	392	Endochronic modeling of static triaxial response of sand	Krishna Kumar S. and A. Boominathan

2.00 pm to 4.00 pm: Parallel Session 7: Theme 6 (Recent developments in Experimental Geotechnics-1)
(14 Contributed papers)

December 17, 2010

Venue: GG101, GAITONDE COMPLEX

Chair/Co-Chair: Prof. Dinesh R. Katti / Dr. G. Madhavi Latha

Sr. No.	Abstract No.	Title of Paper	Authors
T6P1	34	CBR value estimation using dynamic cone penetrometer	K. S. Gill, J. N. Jha, and A. K. Choudhary
T6P2	50	Laboratory evaluation of five quartzites	Hasan Abdullah and Sukhdev Singh
T6P3	120	Shear strength behavior of kaolinite with different microfabric	R. J. Pillai, R. G. Robinson and A. Boominathan
T6P4	154	Indirect Tensile Strength Test of Stabilized Fly Ash	K. Bandyopadhyay and S. Bhattacharjee
T6P5	246	Piled raft behaviour based on 1g model studies	V. Balakumar and K. Ilamparuthi
T6P6	251	Methodology for evaluation of hydro-mechanical behaviour of clay based landfill covers in a geo-centrifuge	B. V. S. Viswanadham and S. Rajesh
T6P7	255	Modified CBR Tests on Geosynthetic Reinforced Soil-Aggregate Systems	M. N. Asha and G. Madhavi Latha
T6P8	264	A realistic way to obtain equivalent young's modulus of layered soil	P. Brahma and S. P. Mukherjee
T6P9	271	Effect of additive on geotechnical properties	M. R. Patil, S. S. Quadri and Lakshmikantha H.
T6P10	277	Study of consolidation accelerated by sand drains	G. Radhakrishnan, M. Anjan Kumar, G. V. R. Prasada Raju, D. S. V. Prasad and Venkateswarlu
T6P11	279	One dimensional consolidation of soft cohesive soil under cyclic loading	Monideepa Paul , R. B. Sahu and S. K. Biswas
T6P12	329	Effect of alternate wetting and drying on laterite and their engineering behavior	R. A. Hegde and Daware S. N.
T6P13	358	Effect of sample preparation on strength of sands	A. Juneja and M. E. Raghunandan
T6P14	380	Transitional States in 1D Slurry Consolidation	C. Ghosh

2.00 pm to 4.00 pm: Parallel Session 8: Theme 7 (Geoenvironmental Engineering)
(15 Contributed papers)

December 17, 2010

Venue: GG002, GAITONDE COMPLEX

Chair/Co-Chair: Prof. P. V. Sivapullaiah / Prof. Ambarish Ghosh

Sr. No.	Abstract No.	Title of Paper	Authors
T7P1	6	Effect of crude oil on some properties of clayey soil	D. K. Talukdar and B. D. Saikia
T7P2	47	Effect of Industrial Wastes on the Physical and Engineering Properties of Soils	Sobha Cyrus, T. G. Santhosh Kumar, B. M. Abraham, A. Sridharan and B. T. Jose
T7P3	64	Influence of physical properties on engineering properties of class F fly ash	S. K. Pal and A. Ghosh
T7P4	135	Assessment of Soil Contamination Using GIS	V. K. Stalin, R. Balakumaran and S. Thenmozhi
T7P5	161	Performance of geotextiles in dewatering high water content sludges	Nandhitha Shinde and Ilamparuthi K.
T7P6	183	Contaminant transport modelling through landfill liners	R. Praveen Kumar, G. R. Dodagoudar and S. S. Quadri
T7P7	200	Low cost adsorbents for heavy metal removal	M. Arif Ali Baig and P. V. Sivapullaiah
T7P8	204	Mineralogical and morphological changes with alkali treatment of soils	P. Hari Prasad Reddy and P. V. Sivapullaiah
T7P9	238	Coal and chemical composition of fly ash and its significance for Road	R. K. Panigrahi, U. K. Guru Vital and Sudhir Mathur
T7P10	317	Contaminant Transport from MSW Landfill: A Case Study	K. S. Beena and Meril George
T7P11	319	Leaching studies of lime-stabilized fly ash mixes	G. Sridevi, A. Sreerama Rao and S. Sai Vara Prasad
T7P12	320	Geotechnical characteristics of hubli-dharwad black cotton soils mixed with flyash – an experimental evaluation	U. D. Hakari
T11P13	365	Modelling of pollutant movement through saturated porous media: Centrifuge study	P. Rajasekhar, B. V. S. Viswanadham and T. I. Eldho
T7P14	370	Geotechnical Characterisation of Wastes at Zinc Manufacturing Plants	C. N. V. S. Reddy and B. Sanghamitra
T7P15	393	A Scanning Electron Microscopy Study on Flue Gas Conditioned Fly Ashes Collected from Thermal Power Stations	S. Shanthakumar, D. N. Singh and R. C. Phadke

4.00 pm to 4.30 pm: TEA

Venue: SOM WELL

4.30 pm to 6.00 pm: Parallel Session 9: Theme 10 (Case studies in Geotechnical Engineering -1)
(13 Contributed papers)

December 17, 2010

Venue: PC SAXENA AUDITORIUM

Chair/Co-Chair: Prof. N. K. Samadhiya / Shri I. V. Anirudhan

Sr. No.	Abstract No.	Title of Paper	Authors
T10P1	25	Use of Geosynthetic Material to Enhance and Sustain Sub grade Characteristics	M. S. Dixit and K. A. Patil
T10P2	49	Ground Improvement Techniques for Mitigation of Liquefaction Hazard	B. V. Sushma
T10P3	56	Embankment Construction over Reclaimed Land Using Pre-Fabricated Vertical Drains	R. Radhakrishnan and N. S. Suriyanarayanan
T10P4	78	Stabilization of Slope for Hill Road at Chorla Ghat	V. M. Karpe, P. Y. Sarang and N. Dias
T10P5	124	Static and Dynamic Stability of Jointed Rock Slope Evaluated by UDEC	K. S. Rao and G. W. Rathod
T10P6	131	Behaviour of flyash reinforced subbases on expansive soil subgrades under cyclic loading	D. S. V. Prasad, M. Anjan Kumar, G. V. R. Prasada Raju and V. Kondayya
T10P7	248	Analysis and Construction of Cross Passage of Delhi Metro	B. C. B. Hsiung, Y. Y. Tsai and C. C. Tsai
T10P8	312	Computation of Settlements of Buildings on Soft Soils with Account of Shear Strains Development in Time	V. M. Ulitsky, A. G. Shashkin, K. G. Shashkin and M. B. Lisyuk
T10P9	324	3D Stability Analysis of Chenab Bridge Abutments	Alex Varughese, G. W. Rathod and K. S. Rao
T10P10	363	Cyclic Pile Load Test on Large diameter Piles, A Case Study	Anil A Kamat and R. R. Mahuli
T10P11	389	Novel Method for Side Wall Protection for Deep Excavation Adjacent to Sea	R. R. Mahuli, U. V. Kulkarni and A. R. Katti
T4P12	160	Site Specific Ground Response and Liquefaction Analyses for a Project Site in New Madrid Seismic Zone	Sanjeev Kumar
T10P13	86	Correction of Laterite hill slide in Goa	Digambar Janardhan Ketkar

4.30 pm to 6.00 pm: Parallel Session 10: Theme 8 (Ground Improvement -2)
(14 contributed papers)

December 17, 2010

Venue: IRCC AUDITORIUM

Chair/Co-Chair: Prof. M. D. Desai / Prof. H. N. Ramesh

Sr. No.	Abstract No.	Title of Paper	Authors
T8P1	166	Swell – Shrink Behaviour of Expansive Soils Under Fly Ash Cushions	M. Rama Rao and A. Srirama Rao
T8P2	167	Behaviour of Model Footings on Reinforced Soil System	G. Radhakrishnan, C. V. S. Narayana, R. Dayakar Babu and D. Venkateswarlu
T8P3	203	Shear Strength Characteristics of Fiber Reinforced Fly Ash	A. K. Choudhary, J. N. Jha and K. S. Gill
T8P4	272	Alternative technique to induce faster lime stabilization reaction in deeper expansive strata	S. Bhuvaneshwari, T. Thyagaraj, R. G. Robinson and S. R. Gandhi
T8P5	276	Effect of strong chemicals on the swell properties of an expansive clay	Manchikanti Srinivas and G. V. R. Prasada Raju
T8P6	286	Application of geonatural spoils in subbase for road construction	Joyanta Maity, B. C. Chattopadhyay and S. P. Mukherjee
T8P7	287	Innovative Techniques in Ground Improvement Laboratory Study on Stabilized Flyash Subbases	M. A. Kumar, D. S. V. Prasad and G. V. R. Prasada Raju
T8P8	210	Use of DFR Fly ash Cushion in Minimizing Heave of Expansive Clay Beds	R. D. Babu and K. Ramu
T8P9	259	Improved foundation system for BC soil using Horizontal Geofabric Layers	P. B. Daigavane, M. S. Pawar, R. P. Borkar and Morge Bagra
T8P10	352	Laboratory Investigation On Reinforced Subgrade Soils	Nagrale Prashant P. and P. H. Sawant,
T8P11	382	Effect of smear on consolidation of sand columns in soft clay subsoils	S. S. Pusadkar
T8P12	383	Strength Behaviour of Composite Ground Reinforced with Sand Columns	A. Juneja and B. A. Mir
T8P13	410	Innovative Soft Clay Improvements Using Vacuum and Dynamic Compaction	B. A. Mir and A. Juneja
T8P14	240	Role of lime content on soil-lime reaction under thermal curing	N. Amir Asad, M. Muttharam and K. Ilamparuthi

December 17, 2010

4.30 pm to 6.00 pm: Parallel Session 11: Theme 9 (Geohazards - Landslides, Subsidences, Tsunamis and Shore erosion) (6 Contributed papers)
+ Theme 13 (Risk assessment and Reliability in Geotechnical Engineering) (4 Contributed papers)

Venue: GG101, GAITONDE COMPLEX

Chair/Co-Chair: Prof. G. L. Sivakumar Babu / Prof. Chandan Ghosh

Sr. No.	Abstract No.	Title of Paper	Authors
T9P1	33	Landslide Hazard Zonation Incorporating Geotechnical Characteristics: A Case study of Wayanad District in Kerala	Gouri Antherjanam, S. Chandrakara and S. Adarsh
T9P2	284	Multiple Model for Landslide Hazard Zonation	M. H. Nafuti,
T9P3	301	Shear Strength of Unsaturated Residual Soils of Hills in Guwahati	U. K. Das and B. D. Saikia
T9P4	400	Assessment of Damages Induced by Recent Landslides in Ooty, Tamilnadu	S. S. Chandrasekaran
T9P5	37	Stability analysis of Flow type Landslide with a new approach in Lower Himalayan belt located at Arunachal Pradesh	G. K. Bayan
T9P6	299	Detailed Stability Analysis of Slopes by Finite Element Method	Sukumar Saha
T13P7	77	Reliability based design of slopes under seismic load : Load Resistance Factor Design (LRFD) approach	S. Haldar
T13P8	139	Probabilistic analysis of load –displacement response of shallow foundation on sand using kalman filter approach	V. P. Patil and G. L. Sivakumar Babu
T13P9	244	Reliability evaluation of earth slopes based on first order reliability method	G. Bhattacharya and Sukanta Dey
T13P10	372	Reliability Analysis for the Stability of Slope in Mumbai Region	Huzefa H. Sukeriwala and R. A. Hegde
T11P11	366	Physical Model Study of Scouring Effects on Pier Foundations of Bridges	Eldho T. I., B. V. S. Viswanadham and B. A. Vijayasree.

6.30 pm to 8.30 pm: CULTURAL PROGRAM “Feel Le Geo-Rhythm”

Venue: CONVOCATION HALL

8.30 pm onwards: CONFERENCE DINNER

Venue: GUEST HOUSE LAWNS

Saturday, December 18, 2010

Time	Event	Venue
8.30 am onwards	Registration	SOM FOYER

9.00 am to 11.00 am: Plenary Session 4

Keynote 8: Case Studies on Soil Nailed Retaining Systems for Deep Excavations

Prof. B. R. S. Murthy

Keynote 9: Assessing Risks of Breaching of Earth Dams and Natural Landslide Dams

Prof. Liming Zhang

Keynote 10: MEMS Based Real-Time Monitoring System for Geotechnical Structures

Prof. Tarek Abdoun

Special 4: Management of Ash Disposal

Dr. D. N. Naresh

Corporate 10 (Pratibha-Ostu-Stettin JV),

Corporate 11 (Shreepati Infra Realty Limited), and

Corporate 12 (Sohams Foundation Engineering Pvt. Ltd.)

Venue: PC SAXENA AUDITORIUM

Chair/Co-Chair: Prof. K. S. Rao / Prof. S. P. Mukherjee

11.00 am to 11.30 am: HIGH TEA

Venue: SOM WELL

11.30 am to 1.00 pm: Parallel Session 12: Theme 11 (Numerical and Physical Modelling -2)
(12 Contributed papers)

December 18, 2010

Venue: PC SAXENA AUDITORIUM

Chair/Co-Chair: Prof. K. G. Sharma / Dr. J. T. Shahu

Sr. No.	Abstract No.	Title of Paper	Authors
T11P1	234	Use of infinite elements in the dynamic analysis of rigid pavement resting on two parameter soil medium	V. A. Patil, V. A. Sawant and Kousik Deb
T11P2	235	Settlement prediction of Geocell-Reinforced clay foundation	Sireesh Saride
T11P3	242	Deformability and settlement of jointed rock mass	Rajbal Singh, D. V. Sarwade and V. K. Kapoor
T11P4	245	3D Finite element analysis of railway tracks	L. S. Sowmiya, J. T. Shahu and K. K. Gupta
T11P5	274	Simplified Non-Linear Theory of vertical Consolidation of Thick Clay Layers	P. Ayub Khan, M. R. Madhav and E. Saibaba Reddy
T11P6	309	Mesh-free modeling of non-homogeneity in the rock mass structure	S. M. Binesh and H. Rahnema
T11P7	316	Optimal design of composite channels considering slope stability criterion	Adarsh S. and M. Janga Reddy
T11P8	334	Mechanism of encased stone columns	S. N. Malarvizhi and K. Ilamparuthi
T11P9	133	Uplift Load Carrying Capacity of Piles in Sand	A. K. Verma and Ronak K. Joshi
T4P10	149	Rational pseudo-static stability analysis of embankments	S. S. Kandolkar, S. S. Aldonkar and P. P. Savoikar
T5P11	367	Pseudo-Static Seismic Stability of Basal Reinforced Embankment with Oblique Pull	V. K. Chakaravarthi and K. Ramu
T5P12	114	Analysis of a braced excavation using hardening soil model	A. Usmani, G. V. Ramana and K. G. Sharma

11.30 am to 1.00 pm: Parallel Session 13: Theme 10 (Case studies in geotechnical engineering – 2) (2 Contributed papers)
Theme 12 (Field testing, instrumentation and monitoring) (8 Contributed papers)

December 18, 2010

Theme Speaker 4:

Potential of plastic waste in geotechnical construction

Prof. G. L. Sivakumar Babu

Venue: IRCC AUDITORIUM

Chair/Co-Chair: Prof. J. M. Kate / Dr. K. S. Prakasha

Sr. No.	Abstract No.	Title of Paper	Authors
T10P1	298	Geotechnical Problems of Jack-Up Rig Deployment in Offshore West Bengal and Mahanadi Area of Indian Offshore- Case Studies	Rupam Mahanta, K. S. Prakasha and A. K. Mishra
T10P2	391	Case Studies of Failure of Basements during Monsoon	D. V. Karandikar
T8P3	368	Dynamic Compaction to Mitigate Liquefaction Potential	Sanjay Gupta
T12P4	19	Evaluation of Pile Integrity using Cross Hole Sonic Logging Testing	Ravikiran Vaidya
T12P5	20	Pile foundation as settlement reducer for large MS storage tanks	Anirudhan I. V and Balakumar V.
T12P6	23	High Strain Dynamic Pile Testing and Static Load Test – A Correlation Study	S. Y. Mhaskar, Makarand G. Khare and Ravikiran Vaidya
T12P7	136	Effect of saturation on the stiffness of finite sand stratum under vertical vibrations	H. N. Ramesh, Prathap Kumar M. T. and Raghavendra Rao M. V.
T12P8	142	Comparative Study between Laboratory and Field CBR by DCP and IS Method	S. Bhattacharjee and K. Bandyopadhyay
T12P9	202	Analysis of Filed Control Tests Data for Reliability at S.E.Z Project, Surat, Gujarat	Nehal Desai, M. D. Desai and Jaydeep Patel
T12P10	260	Geotechnical Instrumentation in Earth and Rock-fill Dams	Vinod Kumar Mauriya
T12P11	281	Performance evaluation of an underground penstock bifurcation – A case study	Hanumanthappa M. S., Rizwan Ali, Shyamli Paswan, S. G. Chaphalkar and S. Govindan

1.00 pm to 2.00 pm: LUNCH

Venue: GUEST HOUSE LAWNS

2.00 pm to 4.00 pm: Parallel Session 14: Young Geotechnical Engineers Session
(14 selected contributed papers authored by Young Research Students)

December 18, 2010

Venue: IRCC AUDITORIUM

Chair/Co-Chair: Prof. S. P. Gopal Madabushi / Dr. J. S. Vinod

Sr. No.	Abstract No.	Title of Paper	Authors
T2P1	313	A Study on Wetting Soil-Water Characteristic Curve of a Sandy Soil	C. Malaya and S. Sreedeeep
T12P2	282	Designing and Construction of Piles Under Various Field Conditions	B .P. Naveen, S. Nayak and K. L. Pujar
T2P3	184	A Methodology for Detecting Buried Solids in Second-use Sites using GPR	A. Hebsur, N. Muniappan, and E. P. Rao, G. Venkatachalam
T8P4	22	Pull-out Factors of Reinforcing Strips Embedded in Cement Modified Marginal Soil Walls	V. Ramana Murty and G. V. Praveen
T11P5	307	Effect of Depth of Footing and Water Table on Bearing Capacity of Soil	M. S. Dixit and K. A. Patil
T8P6	7	Reduction of Swelling Pressure of Expansive Soils using EPS Geofoam	A. P. Shelke and D. S. Murty
T5P7	144	Centrifuge modeling of wrap-around geogrid-reinforced soil walls	Abhinav Mane and B.V.S.Viswanadham
T11P8	216	Design Hints for Buried Pipes to Resist Effects of Blast	A. J. Olarewaju
T11P9	406	Numerical modeling of piled raft foundation in soft clays	B. Gopinath, A. Juneja and A. Agarwal
T10P10	297	Evaluation of Optimum Spacing of Stone Columns	Lakshman Rao and M. Madhira
T7P11	349	Pilot Study to improve Bearing Capacity of Open Dump Waste Site for Low Rise Housing	Nehal Gaurav Dalal, Chandresh H. Solanki, Atul K. Desai and M. D. Desai
T10P12	280	Ground Movement Prediction For Braced Excavation in Soft Clay	King Shuk Dan and R. B. Sahu
T15P13	263	Geotechnical Education and Professional Practices	Satyendra Dubey and Bhruvi Sharma
T8P14	153	Swelling and Strength Characteristics of Expansive Soil Treated with Stone Dust and Fly Ash	T. L. Ramadas, N. Darga Kumar and G. Aparna

2.00 pm to 4.00 pm: Parallel Session 15: Theme 14 (Remote sensing, GIS and GPS applications) (6 Contributed papers)
+ Theme 15(Geotechnical education and professional practice) (5 Contributed papers)

December 18, 2010

Venue: PC SAXENA AUDITORIUM

Chair/Co-Chair: Prof. R. K. Srivastava / Prof. V. K. Stalin

Sr. No.	Abstract No.	Title of Paper	Authors
T14P1	39	Remote Sensing & GIS in Soil & Land Use for Resources Management in Two Semi-Arid States of Brazil	H. S. Teotia
T14P2	194	Sustainable Water Resource Management of Pawas Watershed using Remote Sensing And GIS	A. J. Shirke, R. A. Suryawanshi and D. V. Potdar.
T14P3	327	Use of Geomatic Technology for Disaster Management (Tsunami Disaster Damage Detection - Case Study in Sri Lanka)	Reshma Raskar
T14P4	364	Sedimentation analysis of Gangapur reservoir	M. B. Nakil, M. V. Khire and M. S. Mundhe
T14P5	59	Reservoir Capacity Loss Estimation Using Satellite Data – A Case Study	Uday C. Roman, Suneeta Jatwa and M. N. Singh, S. Selvan
T14P6	311	Assessment of groundwater recharge potential zone - A GIS based approach	S. Singh, A. B. Samaddar and R. K. Srivastava
T15P7	38	Development of Spreadsheet for Correlation of Soil Properties	S. J. Shah, P. Abdurahiman and S. H. Shah
T15P8	215	On the nature of secondary compression in soils	S. K. Jain and Atul Nanda
T15P9	258	Interpretation of geotechnical report	Sanjeev Gupta
T15P10	275	Are finishing schools necessary for the geotechnical engineering profession?	Manchikanti
T15P11	152	Geotechnical Investigations in Adverse Geological Occurrence in HRT of Tala H.E. at Kalikhola, Bhutan	Mahabir Dixit, S. K. Babbar and B. Kumar

4.00 pm to 4.30 pm: TEA

Venue: SOM WELL

4.30 pm to 6.00 pm: VALEDICTORY FUNCTION

Venue: PC SAXENA AUDITORIUM

6.00pm onwards: VALEDICTORY TEA

Venue: SOM WELL

List of Themes:

- T1** – Geotechnical issues of urban infrastructure
- T2** – Site investigation by non-invasive techniques and site characterization
- T3** – Tunnels and underground construction
- T4** – Geotechnical earthquake engineering
- T5** – Earth and earth-retaining structures
- T6** – Recent developments in experimental geotechnics
- T7** – Geo-environmental engineering
- T8** – Innovative techniques in ground improvement
- T9** – Geo-hazards-landslides, subsidence, tsunamis and shore erosion
- T10** – Case studies in geotechnical engineering
- T11** – Numerical and physical modeling
- T12** – Field testing, instrumentation and monitoring
- T13** – Risk assessment and reliability in geotechnical engineering
- T14** – Remote sensing and GIS, GPS applications
- T15** – Geotechnical education and professional practice