

PROGRAMME

14 OCTOBER AULA MAGNA, SCHOOL OF ENGINEERING AND ARCHITECTURE

- 8:00 Registration
9:00 OPENING CEREMONY Chair: G. Gottardi
P. P. Diotallevi, Dean of the School of Engineering and Architecture
F. Ubertini, Head of Department DICAM, University of Bologna
F. Tatsuoka, IGS Past President, Tokyo University of Science
S. Aversa, AGI President, Parthenope University of Napoli
H. I. Ling, Organizing Committee, Columbia University, New York
- 9:30 SPECIAL LECTURE Chair: F. Tatsuoka
D. Leshchinsky Framework for limit state design of geosynthetic-reinforced walls and slopes
- 10:30 Coffee
11:00 LABORATORY TESTING AND PHYSICAL MODELING I Chair: A. Klar
11:50 WALL/SLOPE DESIGN AND CONSTRUCTION I Chair: L. Callisto
12:50 Lunch
14:00 KEYNOTE Chair: G. Gottardi
D. Cazzuffi Geosynthetics engineering and vegetation growth in soil reinforcement applications
14:45 KEYNOTE Chair: J. Han
J.G. Collin Shored MSE Walls Research to Practice
- 15:30 Tea
16:10 PAVEMENT AND FOOTING Chair: N. Okine
17:00 BRIDGE AND VERTICALLY LOADED STRUCTURE Chair: E. Guler
17:50 End of session
20:00 Reception and Music Concert

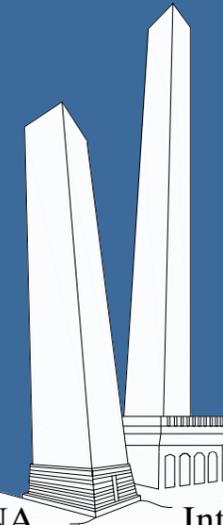
15 OCTOBER AULA MAGNA, SCHOOL OF ENGINEERING AND ARCHITECTURE

- 9:00 KEYNOTE Chair: H. Ling
J. Koseki Mitigation of disasters by earthquakes and rains/floods by means of geosynthetic-reinforced soil retaining walls
- 9:45 APPLICATION OF NUMERICAL METHODS Chair: L. Tonni
10:45 Coffee
11:15 WALL/SLOPE DESIGN AND CONSTRUCTION II Chair: J. Han
12:30 Lunch
14:00 Group photo by B. Leshchinsky
14:15 BISHOP LECTURE Chair: D. Leshchinsky
F. Tatsuoka The importance of good compaction of the backfill and the compaction control based on the dry density and the degree of saturation
- 15:00 LABORATORY TESTING AND PHYSICAL MODELING II Chair: A. Zhussupbekov
15:50 Tea
16:20 EMBANKMENT, SOFT GROUND AND GEOSYNTHETIC TUBE Chair: J. Collin
17:45 End of session
20:00 Gala Dinner

16 OCTOBER SALA TOPAZIO, PALAZZO DEGLI AFFARI, FAIR DISTRICT

- 9:30 OPENING OF THE 26TH ITALIAN NATIONAL CONFERENCE ON GEOSYNTHETICS
9:45 KEYNOTE Chair: S. Aversa
J.D. DiMaggio Geosynthetic-reinforced soil walls and slopes: best practices in design and construction and reality: why they differ
- 10:30 CASE HISTORIES OF WALL/SLOPE AND EMBANKMENT Chair: S. Aversa
12:30 Visit to SAIE Exhibition 2013
13:30 Lunch
14:45 KEYNOTE Chair: D. Cazzuffi
N. Moraci Soil-geosynthetic interaction: design parameters from experimental and theoretical analysis
- 15:30 CASE HISTORIES OF OFF-SHORE, ROAD AND RAILWAY CONSTRUCTION Chair: D. Cazzuffi
17:30 Closing Ceremony

PROGRAMME AND SESSIONS



sponsored by



MICHELETTO

TENAX



HUESKER
Ideen. Ingenieure. Innovationen.



MACCAFERRI
GEOSYNTHETICS



Tensar

ADAMA
ENGINEERING



BOLOGNA 14-16 October 2013 International Symposium on Design and Practice of Geosynthetic-Reinforced Soil Structures



SESSIONS

LABORATORY TESTING AND PHYSICAL MODELING I

M. Iacorossi, H. I. Ling, G. Gottardi, L. Li	Centrifuge modeling of earth-reinforced retaining walls
S. B. A. Mohamed, K. Yang W. Hung	Limit equilibrium analyses of two-tired geosynthetic-reinforced soil wall models in a geotechnical centrifuge
Y. Xu, J. Wang	Ground improvement with interlockable plastic bottles
H. M. Eldesouky, M. M. Morsy, M. F. Mansour	Strength parameters of sand reinforced with randomly-distributed geosynthetic fibers

WALL/SLOPE DESIGN AND CONSTRUCTION I

F. Vahedifard, D. Leshchinsky	Seismic external stability analysis of geosynthetic-reinforced earth structures using an integrated analytical approach
G. Yang, H. Liu, Y. Zhou, B. Xiong	Field instrumentations of a two-tired geogrid-reinforced soil wall backfilled with soil-rock mixture
N. N. S. Chou, A. Tang, and S. Wu	An application of the connecting system between MSE wall and soil nail
M. A. Stewart, J. S. McCartney	Model for predicting lateral face deflections of thermally active mechanically stabilized earth walls
R. J. Valentine	An assessment of the factors that contribute to the poor performance of geosynthetic-reinforced earth retaining walls

PAVEMENT AND FOOTING

J. Han, J. K. Thakur, R. L. Parsons, S. K. Pokharel, D. Leshchinsky, X. Yang	A summary of research on geocell-reinforced base courses
A. Zhussupbekov, T. Muzdybaeva, E. C. Shin	Experimental research of reinforced unpaved road under cyclic loading
S.K. Pokharel, I. Martin, M. Breault	Causeway design with neoweb geocells
T. Imajai, A. Sawangsuriya, M. Dechasakulsom	Effectiveness of geosynthetic-reinforced flexible pavements - full-scale testing and FE analysis

BRIDGE AND VERTICALLY LOADED STRUCTURE

Md. S. Rahman, J. Huang, S. Bin-Shafique, X. Yang	Numerical study of group shafts in mse wall under two loading conditions
S. Kawabe, F. Tatsuoka, T. Koroda, S. Yamaguchi, T. Matsumaru, K. Watanabe, and M. Koda	Seismic stability of geosynthetic-reinforced soil integral bridge evaluated by shaking table test
E. Guler, T. E. Ozturk	Dynamic behaviour of geosynthetic reinforced back to back retaining wall
S. Yazaki, F. Tatsuoka, M. Tateyama, M. Koda, K. Watanabe, A. Duttine	Seismic design of grs integral bridge
M. Koda, T. Nonaka, M. Suga, R. Kuriyama, M. Tateyama, F. Tatsuoka	Lateral cyclic loading tests of a full-scale grs integral bridge model

APPLICATION OF NUMERICAL METHODS

Z. Wang, F. Jacobs, M. Ziegler	DEM investigation of compound tensile test with one geogrid tensile member
S. Cuomo, L. Frigo, C. Tedesco	Modelling the displacements of geosynthetics reinforced geostructures
T. Meier, D. Alexiew, P. von Wolfersdorff, F. Brötzmann	Finite element safety analyses of a geosynthetic-reinforced dam under seismic impact
N. Attoh-Okine	Some data analytic issues in sensor-based geosynthetics application
A. D. Garini	Critical failure surfaces for tie-back and compound slope analysis

WALL/SLOPE DESIGN AND CONSTRUCTION II

F. Zhu	A study on mechanical function of facing units in geosynthetic-reinforced earth structures
P. Naughton, M. Scotto, P. Rimoldi, M. Vicari	External stability of reinforced soil walls
P. Rimoldi, D. Leshchinsky, M. Arrigoni, A. Bortolussi	Vertical wall with concrete panels facing and geostrips reinforcement: instrumentation and data reduction
B. Leshchinsky	Mechanically stabilized earth walls: parametric study of reinforcement tensile loads under limit state
A. Klar and E. Normand	Kinematic constraints based method for extensible reinforcement in MSE walls
D. Alexiew, F. Leite-Gembus, S. Jossifowa	Geogrid-reinforced segmental block walls for a highway intersection project: design and specific solutions

LABORATORY TESTING AND PHYSICAL MODELING II

F. Ferreira, C. Vieira, M. de Lurdes Lopes	Analysis of soil-geosynthetic interfaces shear strength through direct shear tests
G. Stoltz, N. Vidal	Alteration of friction characteristics of geosynthetic interfaces following successive slidings
H. Lin, H. I. Ling, L. Li, J. G. Collin, D. Leshchinsky, P. Rimoldi	Centrifuge modeling of gabion walls reinforced with geosynthetics
S. N. Moghaddas Tafreshi, B. Noori, O. Khalaj	Stress-strain response of multi-layered geocell reinforced soil by triaxial test

EMBANKMENT, SOFT GROUND AND GEOSYNTHETIC TUBE

S. Dutta and J. N. Mandal	Feasibility study on waste plastic water bottles as encasements of stone columns for ground improvement
A. Huckert, P. Villard, L. Briancon, P. Garcin	An experimental approach of the design of geotextile-reinforced embankments prone to sinkholes
E. Fedorenko, T. Vavrinuk	Determination of the strength of geosynthetic materials taking into account of consolidation of soil thawed
J. Gorniak, P. Villard, P. Delmas	Analytical design method to determine the vertical loading capacity of geosynthetic tubes filled with granular material
W. Guo, J. Chu, S. Yan	Design of geosynthetic tube resting on winkler foundation
R. Girout, M. Blanc, L. Thorel, D. Dias, M. Almeida	Geosynthetics impact on the reinforcement of compressible soil by rigid piles
K. Matsushima, Y. Mohri, K. Nakazawa, K. Yamada, T. Hori, M. Ariyoshi	The pilot test of countermeasure against wave erosion for road embankment in Bangladesh

CASE HISTORIES OF WALL/SLOPE AND EMBANKMENT

M. Vicari, M. Scotto, P. Rimoldi	Applications of steel and geogrid reinforcement for reinforced soil structures with lightweight fills
A. Suhendra, G. Saputra	Lesson learned from Indonesian case histories on retaining earth structure failures and its remedial structures
V. Herle	Poor protection against water-path to failure of reinforced soil wall
G. Giusti, G. Urciuoli	An earth reinforced embankment built on a scarp stabilized by soil nailing
M. P. Guerra-Escobar	Northumberlandia: reinforced soil structures used in the largest human landform
A. Paoletti, G. Battista Peduzzi, L. Griffini, P. Recalcati, A. Cantoni	A 60.0 m high geogrid reinforced slope in the Italian Alps
G. Federici, L. E. Russo, P. Fantini	Segmental retaining walls and steep slopes reinforced with PVA geogrids in the energy polo of Massa Martana
J. Davis, J. Phillips, R. Czapinski, E. Seissiger, P. Cignarella	Breakwater island creation: a 3-fold system
T. Yonezawa, T. Yamazaki, M. Tateyama, F. Tatsuoka	Various geosynthetic-reinforced soil structures for Hokkaido high-speed train line

CASE HISTORIES OF OFFSHORE, ROAD AND RAIWLAY CONSTRUCTION

S. Guandalini, W. Steiner, S. Irngartinger	Geosynthetics as support for a deposit of muck on soft clay
A. Alimardani Lavasan, T. Schanz	Bearing capacity and settlement of an isolated ring footing on sand reinforced with geogrid
S. Yamaguchi, M. Yanagisawa, S. Kawabe, F. Tatsuoka, Y. Nihei	Evaluation of the stability of various types of coastal dyke against over-flowing tsunami current
N. V. Karnati, S. Mandavkar, P. Rimoldi, M. Zurlo	A case history of construction of confined dredged material disposal island using geotextile tube dikes and innovative environmental dredging techniques
F. Tseng, A. Chien, A. Tang, V. Ho	Geotextile tube solution for barrier island's inlet restoration engineering in Taiwan
A. Nancey	Recent development and realisation on basal reinforcement
C. Doulala-Rigby	Use of geosynthetics in airfield applications
A. Rosen	The use of geocells for slope protection under special conditions
A. Herold, L. Vollmert	Greater safety for geosynthetic-reinforced earth (GRE) systems noise-protection impact and fire performance in full-scale trial