

Preliminary Program

International Conference on

THE USE OF GEOSYNTHETICS in SOIL REINFORCEMENT AND DYNAMICS

September 5-8, 2004
Schloss Pillnitz, Dresden, Germany

In collaboration with Verein Deutscher Ingenieure (VDI, Düsseldorf, Germany)
Under the auspices of IGS (International Geosynthetics Society), and DGGT (Deutsche Gesellschaft für Geotechnik e. V.)

Conference Chairs

Prof. Dr.-Ing. Herbert Klapperich
Freiberg University of Mining and Technology, Germany

Dr.-Ing. Daniele Cazzuffi
President of International Geosynthetics Society (IGS)

Dr.-Ing. Ludwig Vollrath
VDI - Gesellschaft Kunststofftechnik, Düsseldorf, Germany

Prof. Dr. Robert M. Koerner
Geosynthetic Institute, Folsom, Pennsylvania, USA

Honorary Chair

Prof. Dr. Rudolf Floss
Head of Geosynthetics Chapter, DGGT, Germany

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Sunday, 5 September 2004

- 17:00 **Registration** (Hotel Lobby)
- 19:00 **Welcome Reception with Music** (Orangerie Rotunde)
- 21:00 **Dinner** (Hotel)

Monday, 6 September 2004

- 07:30 **Breakfast**
- 09:30 **Welcome** (Hotel)
H. Klapperich, *Conference Chair*
D. Cazzuffi, *Conference Chair*
L. Vollrath, *Conference Chair*
B. Körner, *Conference Chair*
B. Hickernell, *ECI Director*

Welcome Addresses

- D. Cazzuffi, *President, International Geosynthetics Society (IGS)*
F. Tatsuoka, *Vice President, ISSMGE*
H. Brandl, *Past President, ISSMGE-Europe*
G. Heerten, *Vice Chairman, Deutsche Gesellschaft für Geotechnik e. V. (DGGT)*

Opening Lecture – Conference Goals

- R. Floss, *Chairman German Chapter of IGS*

Keynote

- H. Klapperich, *Freiberg University of Mining and Technology, Germany*
Geosynthetics – An Innovative Tool (*proceedings*)

- 10:00 **SESSION A - REINFORCEMENT**
Chair: D. Cazzuffi (Italy)

State-of-the-Art Reports

- J.P. Gourc (France)

“Geosynthetic liner systems on slopes “

- B. Köerner (USA)

“Design of drainage systems for segmental retaining walls “ (*Proceedings*)

- G. Heerten (Naue Fasertechnik, Germany)

“Welded geogrids as the new generation of reinforcing products in geotechnical applications“

- W. Muller (BAM, Germany)

“Deposits“

Statements

V. Cuellar (CEDEX, Spain)

“Landfills“

M.X. Zhang (China)

“Prediction of critical length of reinforcement (neural networks)”

F. Scheele (University of Cape Town, South Africa)

“Lining system of the Bellvielle South Landfill”

W. Blümel and M. Heinemann (University of Hannover)

“Geogrids on vibro concrete columns for a road crossing a landfill“(proceedings)

Structured discussion

12:00

Lunch

13:00

Special Event - TECHNICAL EXHIBITION

(additional guests)

Opening Remarks

H. Klapperich

L. Vollrath (VDI)

A. Müller-Kirchenbauer

Welcome addresses

H. Feßenmayr

Bürgermeister für Stadtentwicklung und Bau - Landeshauptstadt Dresden

G. Enders (invited)

Präsident Sächsischer Bauindustrieverband e. V., Dresden

Dr. A. Kolbmüller (invited)

Präsident Ingenieurkammer Sachsen

Prof. K. Lieberenz

Hochschule für Technik und Wirtschaft (FH), Dresden

P. Dollowski

EBA, Bonn (German Rail Authority)

H. Denzer

DEGES, Berlin

Dr. R. Pöttler

Geschäftsführer des Planungsbüros ILF, Innsbruck, Österreich

Statements of Exhibitors

16:00

SESSION B – ENHANCED SOIL REINFORCEMENT APPLICATION

Chair: W. Blümel (Germany)

Presentations by exhibitors

- innovative products
- applications/case histories

Statements

D. Alexiew (Huesker, Germany)

“Piled Embankments –overview & significant case studies”

R. Pöttler (ILF, Austria) / P. von Wolffersdorff (Baugrund Dresden, Germany)

“Overbridging with Geosynthetics or Concrete Slabs”

Paper Presentations

H. Y. Jeon (Chonnam, National University, South Korea)

“Long-term Deformation Behaviours of Reinforced Geocomposites for Soft Foundation Soils”

S. Bajtl (Wercos, Croatia)

“Reinforced Soil Structures in Croatian Highways”

A.K. Darban (Tarbiat Modares University, Iran)

“The Effect of Asphalt Reinforcement with Geosynthetic on Fatigue Life and Crack Propagation of Asphalt Concrete Pavements”

K.M. Khan (Engg. University Taxila, Pakistan)

“Feasibility of Geosynthetics in Flexible Pavements”

F. Moghadas Nejad (Amirkabir University of Technology, Iran)

"A study on capability of Geosynthetics for reinforcement of overlay against reflective cracks "

17:30

SESSION D1 – DYNAMICS

Chair: S. Savidis (Germany)

Keynote

F. Tatsuoka (Japan)

“Behaviour of Geosynthetic-Reinforced Retaining Walls During Actual Earthquakes and Shaking Table Tests”

18:00

Nature Walk – opportunity for one-to-one communication

Wine Tasting

20:30

Dinner (at hotel)

Tuesday, 7 September 2004

07:30 **Breakfast**

09:00 **SESSION C1 – MATERIAL TECHNOLOGY**

Chair: J. Müller-Rochholz (Germany) / J. Greenwood (Great Britain)

State-of-the-Art Reports

J. Müller-Rochholz (Germany)
(title to be announced)

J. Greenwood (Great Britain)
(titled to be announced)

Paper Presentation

P. Albert (Budapest University of Technology and Economics, Hungary)
“Energy Based Design of Reinforced Soil Structures”

10:00 **SESSION C2 – Design Approach-Numerical Models**

Chair: P. Delmas (France)

Statements

G. Bräu (Germany)
“EBGEO – German Regulation”

P. Segrestin (France)
“A New Rationale for the Allowable Tensile Strength of Geosynthetic”

C. Jenner (Great Britain)
“Reinforced Soil, Design & Execution”

N. Moraci (Italy)
“Design Process – Check List”

A.Y.T. Lam
“Geoguide 6 Hong Kong”

Keynote

H. Konietzky (ITASCA, Germany)
“Numerical Modeling of Soil and Geogrid”

Paper Presentation

T. Aydogmus (TU BAF, Germany)
“Numerical Modeling – Appropriate Design”

M. Incecik, R. Iysian (Turkey)
“Reinforced embankments on sand columns”

12:00 **Coffee Break** (*Orangerie*)

12:30

SESSION C3 – Behaviour Versus Time & Failures – Case Histories

Chair: R. Floss (Germany)

State-of-the-Art Report

F.P. Jaecklin (Switzerland)

“Collapse of Retaining Walls”

Keynote

C.J.F.P. Jones (Great Britain)

“Major Collapses in Tennessee, USA & More”

Paper Presentations

C.V. dos Santos Benjamin (USP, Brazil)

“Non Woven Geotextiles”

S. Matsiy (Kuban State Agrarian University)

“Stop Protection from Aeration”

A. Li (AMEC, Canada)

“Performance of Two Geosynthetic Reinforced Test Embankments constructed on past deposits and design implications”

13:30

Excursion to TU Bergakademie Freiberg by boat on the Elbe and bus

(Lunch bags provided)

(Boat leaves promptly at 13:45)

16:00

Welcome

W. Voigt, *Vice President, TU BAF*

R. Schmidt, *President, Mining Authority Saxony*

SESSION C4: Experimental Investigations

Chair: H. Brandl (Austria)

Statements

N. Meyer (TU Clausthal, Germany)

T. Aydogmus (TU BAF, Germany)

E. Güler (Bogazici University Istanbul, Turkey)

F. Moghadas Nejad (Amirkabir University of Technology, Iran)

"Interaction between frictional soils and geogrid reinforcement"

Paper Presentation

U. Trunk, NN (Keller, Germany)

“EBGEO 6.9 Related”

Discussion Sessions C1 – C4

Lab-tour Geotechnical Institute TU BAF

Test Device (T. Aydogmus, Germany)

- 18:30 City Walk
Mining Museum
- 19:30 Dinner at “Alte Elisabeth” – Betstube Old Mining Site (Buffet and Bergbier)
- 22:00 Return to hotel by bus

Wednesday 8 September 2004

- 07:30 **Breakfast**
- 09:00 **SESSION D2 – SOIL REINFORCEMENT INTERACTION & DYNAMIC’S**
Chairs: S. Savidis (Germany) / H. Klapperich (Germany)

Keynote

N. Thom (Great Britain)

“Traffic Loading – Roads & Railways”

Statements

W. Rücker (BAM, Germany)

“Specific Dynamics – Railways”

A. Herold (Ingenieurbüro Herold, Germany)

“Design Recommendation EBGE0 – Factor A5”

N. Tamaskovics (TU BAF, Germany)

“Cone Models”

Structured Discussion

- 11:00 **Coffee Break**

- 11:30 **SESSION D3 – DYNAMICS**
Chair: F. Tatsuoka (Japan)

Statements

S. Blovsky, H. Brandl (Austria)

“Impact Loading on Geosynthetic Reinforced Fills”

Paper Presentations

F. Kopf, D. Adam (Austria)

“High Speed Railway Tracks”

S. Altun (Turkey)

“Cyclic Behaviour of Reinforced Sand”

A. Azad (Iran)
“Earthpressure / Earthquakes”

13:00

Conference Closure
H. Klapperich / D. Cazzuffi
Lunch and Departure