

IGS NEWS



NEWSLETTER OF THE INTERNATIONAL GEOSYNTHETICS SOCIETY

Dedicated to the scientific and engineering development of geotextiles, geomembranes, related products, and associated technologies

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President's Corner: "Educate the Educator" (on Geosynthetics)



Jorge Zornberg

Dear Members of the IGS,

The big audacious goal that the IGS Council adopted during the 2010 strategy meeting in Guarujá, Brazil, is ***"That geosynthetics become indispensable to the point that they are regularly included in engineering curricula and relevant design standards."*** With this long-term goal in mind, a specific objective established for the IGS 4 year-plan is to ***"Begin our efforts to increase geosynthetic education at the undergrad level."***

I am pleased to report that these efforts are now being initiated with a pilot program that addresses the educational needs in the country of one of our youngest chapters: Argentina. Specifically, the "Educate the Educator" (indeed, "Educando al Educador," as the course will be in Spanish) will take place in Villa Carlos Paz, Argentina, from May 26 to 28, 2013. This is a good example of a joint effort between an IGS Chapter (IGS-Argentina in this case) and the IGS (through its Pan-American Activities and Education Committees). The focus of this program is on undergraduate education with the overall goal that every civil engineering student graduating from a civil engineering program in Argentina will have received a basic exposure to geosynthetics. Yes, the goal is perhaps a simple, one hour-long exposure class, but offered to every single civil engineering undergraduate student in the country. As part of this effort, 30 civil engineering professors will receive a fellowship that will cover expenses to participate in a premier training program on geosynthetics. This pilot program will benefit from the involvement of the Argentinean Council on Civil Engineering Curriculum (CODIC), an agency that has encouraged the development of this educational program.

A terrific precedent of training civil engineering professors exists with a training program that was previously implemented in North America over fifteen years ago. The program was masterfully led by Prof. David Elton during five consecutive years (1994-1998). Each year, 25 professors were competitively selected to participate in the courses, conducted at Auburn University (USA). Attendees had only to arrange their travel to and from Auburn. Meals, housing, and handouts were all provided to participants. The format of the Professor Training Course for Geosynthetics included lectures by well known professors who reviewed extensive class notes prepared as handouts for the course. The lectures covered polymers, manufacturing, erosion control, steepened slopes, landfills, mechanically stabilized backfill, pavement applications, embankments over soft ground, and filtration and drainage (Elton 1996). The concept of "modular notes" was used, in which the notes were broken into many stand-alone parts. In this way, different components of the course could be easily integrated geosynthetics material into existing courses.

After over 15 years since the excellent experience in North America, education on geosynthetics at the undergraduate level still remains a current, worldwide need. The IGS is not alone in recognizing this important need. Indeed, the Geosynthetic Institute (GSI), with its major educational arsenal on geosynthetics, and the Geosynthetic Materials Association (GMA), with its capability of mobilizing the geosynthetics industry, are equally engaged in promoting basic geosynthetic education. The opportunity exists for significant synergism in this undergraduate educational effort.

I encourage IGS Chapters to consider leading an "Educate the Educator" initiative in your country, as this is at the cornerstone of the IGS goals. The IGS is ready to allocate resources and provide logistic support. Feel free to contact us for additional information on how the IGS can help with materializing this important educational initiative in your country. Undergraduate students in every civil engineering program deserve to receive a basic exposure to the types, functions, and applications of geosynthetics.

All best regards



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IGS President

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General Information for IGS Members

Members-Only Proceedings Library Now on the IGS Website



**Elizabeth
Peggs**

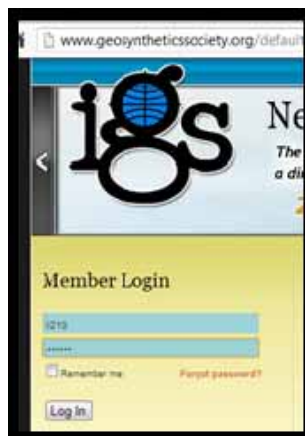
The IGS Technical Committee on Soil Reinforcement and the IGS Website Task Force have combined their efforts to develop a new online resource for IGS Members: a proceedings library! Beginning in early 2012 various committee members of the IGS began to obtain copyright permission and execute the digitization of IGS Conference proceedings. This is a huge undertaking and will take some time. As new proceedings are added to the searchable library below IGS Members will be notified.

The new proceedings library houses downloadable

papers from IGS conferences (and in some cases from conferences held under the auspices of the IGS). While all internet users will be able to see titles and abstracts of the papers proceedings the full papers will only be accessible to IGS Members who are logged in to the IGS website.

The benefits of this resource are clear. The library will become both a historical archive as well as a tool for the continued development of geosynthetic-related technologies. *Thank you to the IGS Technical Committee on Soil Reinforcement, the Website Task Force and particularly Professors Otani, Bathurst, Miyata and and G. Bräu for their work on this project.*

Please consider for one moment the extraordinary value of just the publication benefits associated with IGS Membership. **\$30-\$45/annum provides you access to both IGS Journals and now the proceedings library!** Separately, these publications are worth hundreds annually and thousands over the lifetime of your career! The IGS achieves this amazing success through the hard work of our volunteers. **Please take a moment to consider contributing to the growth of our society through the contribution of your time.** If you would like to volunteer to support this or any other IGS project, please contact the Secretary's office – we will find just the task for you!



Log-in



Click:
Proceedings Library



Search the papers!



Reported by
Elizabeth Peggs, IGS Secretary

IGS Council Elections Results: Term 2012 to 2016

The IGS, in accordance with its bylaws, held a mid-term election in 2012. IGS Members elected eight Council Members from an excellent field of 12 candidates. Each of the elected members will serve a four-year term, beginning on 11 December 2012.

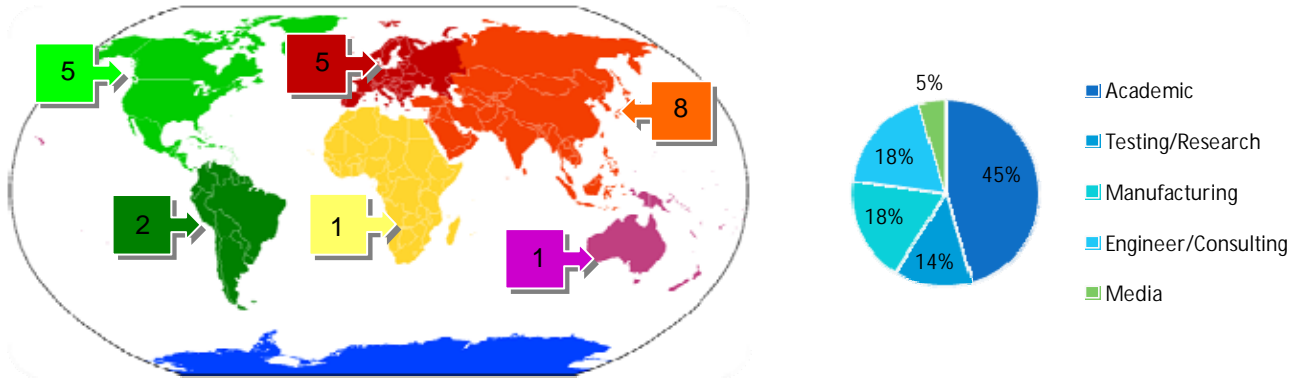
The successful candidates in the 2012 election are (alphabetically by family name):

- Dennes T. Bergado, Thailand (2nd term)
- Erol Güler, Turkey
- Warren Hornsey, Australia
- Jiro Kuwano, Japan (2nd term)
- Nicola Moraci, Italy

- Victor Pimentel, Brazil (2nd term)
- Boyd Ramsey, USA
- Kent von Maubeuge, Germany

These 8 candidates join the existing council and elected officers for a total of 22 current members.

IGS Council Overview



Congratulations to all of the successful candidates, and thank you to all candidates who ran. The IGS is a volunteer organization and without the dedication and hard work of the volunteers we could not move forward!

*Reported by
Elizabeth Peggs, IGS Secretary*

Valencia – Host to EuroGeo 5 and So Much More!

Every fourth year the IGS has a very, very busy year. These are years defined by Regional Conferences, mid-term elections, and all around a lot of activity. At each regional conference, we take the time to honor regional members who have worked to support the IGS and our discipline: long-standing Corporate Members, Student Award winners, and Individual Members who have been nominated by their Chapters to receive the Chapter Achievement Award.

Awards and Recognition of IGS Members

This year has been exceptional in all instances. In Valencia the IGS had the privilege of recognizing 11 Student Award Winners! Awards were presented by Dr. Nathalie Touze-Foltz, Student Award Program Chair and Dr. Jorge Zornberg, IGS President.

- Ms. Anne Ravaska, [Finnish Chapter](#)
- Ms. Carlota Pons, [French Chapter](#)
- Ms. Shabnam Meshkinghalam, [German Chapter](#)
- Ms. Laura Carbone, [Italian Chapter](#)
- Mr. Herman-Jaap Lodder, [Netherlands Chapter](#)
- Mr. David Carlos, [Portuguese Chapter](#)
- Ms. Alla Kusnetsova, [Russian Chapter](#)
- Ms. Irene Nyirenda, [South African Chapter](#)
- Dr. Maria de los Angeles Crespo, [Spanish Chapter](#)
- Dr. Hakki Ozhan, [Turkish Chapter](#)
- Ms. Katazyna Zamara, [UK Chapter](#)



Dr. Nathalie Touze-Foltz; Ms. Katarzyna Zamara (UK); Ms. Carlota Pons (France); Dr. Hakki Ozhan (Turkey); Ms. Irene Nyirenda (South Africa); Dr. Maria de los Angeles Crespo (Spain); Mr. Herman-Jaap Lodder (The Netherlands); Ms. Laura Carbone (Italy); Ms. Shabnam Meshkingham (Germany); Dr. Jorge G. Zornberg

Unavailable for the photo: Ms. Anne Ravaska (Finland); Mr. David Carlos (Portugal); Ms. Alla Kuznetsova (Russia)

Crystal vases commemorating 20+ years of continual support to the IGS were presented by Ing. Pierpaolo Fantini, Corporate Committee Chairman & Dr. Jorge Zornberg, to three IGS Corporate Members:

- [CETCO](#), accepted by Mr. Patrick Carpenter
- [Cofra](#), accepted by Mr. Paul van der Hom
- [Tenax](#), accepted by Mr. Cesare Beretta



Corporate Members Winners representing Tenax, Cofra, CETCO

Last but absolutely not least, two of the European chapters of the IGS nominated members to receive the Chapter Achievement award. This award is presented quadrennially to individual members who provide outstanding service to their chapter. Please help us to congratulate the two recipients of the IGS Chapter Achievement Award in Europe.



Dr. Hugues Girard; FGS (French Chapter)



Prof. Michele Maugeri (Italian Chapter)

IGS Meetings: Council Committees, Technical Committees & Task Forces

In addition to the additional member-related activities on the main stage of EuroGeo 5 there were a number of additional working meetings held. Historically, there have been two IGS Council meetings in this four-year cycle, one meeting pre-election and one post-election. In 2012 those meetings are held in conjunction with the GeoAmericas conference (Peru, May) and Geosynthetics Asia (Bangkok, December). However, EuroGeo 5 was not left out! In addition to a full day of IGS Officers meetings, EuroGeo hosted working meetings of almost every IGS committee, Technical Committee and IGS task force during the conference. This is noteworthy as it is possibly the first time so much work has been done at a conference between council meetings! Thanks to all of the conference chairs, members and the EuroGeo 5 organizers for making this happen.

*Reported by
Elizabeth Peggs, IGS Secretary*

News from the Technical Committees of IGS

IGS Technical Committee on Soil Reinforcement – TC-SR Meeting at GeoAmericas 2012

IGS Technical Committee on Soil Reinforcement – TC-SR organized a special session during the 2nd International Conference on Transportation Geotechnics on 10 September, 2012. This conference was organized by the Japanese Geotechnical Society, under the auspices of International Society for Soil Mechanics and Geotechnical Engineering, with the support of Hokkaido University, Geo-Institute of ASCE, International Geosynthetics Society, and Transportation Research Board in the USA.

The IGS special session was chaired by Prof. Jun Otani (Japan) who is Chair of TC-SR. The focus of the session was on geosynthetics applications in transportation geotechnics. Technical papers were presented on the topics of rural road maintenance using geotextiles, subbase reinforcement using geogrids, pavement drainage with geocomposites and seismic mitigation using geogrids. Prof. Otani reviewed the current activity of the TC and opened the session. Prof. Kimura (Kyoto Univ., Japan) reported an excellent case history on rural road maintenance techniques which are available in developing countries. Engineering approaches for rural engineering and the applicability of different soil types were discussed. Dr. Hirakawa (National Defense Academy, Japan) gave a presentation on residual deformation properties of geogrid-reinforced subbases in asphalt pavements subjected to traffic loading. The influence of traffic loading type and geogrid type were discussed. Dr. Savoie (Laval Univ., Canada) showed the effectiveness of geocomposite drainage techniques through laboratory



TC-SR special session at 2nd International Conference on Transportation Geotechnics

and field experiments. Geocomposite type and frost problems were also discussed. Dr. Chao (National Ilan Univ., Taiwan) gave a presentation of a P wave alarm system and numerical modeling of a geogrid reinforced soil wall. The importance of creep reduction factor in comparisons between calculated and predicted reinforcement loads was discussed. Dr. Tsuji (Maeda Corp., Japan) reported the results of dynamic centrifuge model test results on geogrid reinforced double wall systems. The validity of the modeling was discussed.

TC-SR held a committee meeting at the time of EuroGeo 2012. The meeting was organized by Gerhard Bräu (Germany) who is co-chair of TC-SR. A total of 20 persons were in attendance from many different countries. The meeting was started by Gerhard Bräu with a reminder of the objectives of the committee. Prof. Bathurst (Canada) who is co-chair of TC-SR and Ms. Elizabeth Peggs (USA) reported on progress towards the current primary objective of the committee which is the creation of an on-line repository of past geosynthetics-related conference proceedings dating back to 1977. The remainder of the meeting was a technical presentation by Gerhard Bräu. He presented current progress on European standard design methods for geosynthetic reinforced structures. ISO/TC 221 (geosynthetics) is planning to form a working group on these design methods. The topic of his presentation was timely and of great interest to our committee members. Those in attendance exchanged opinions on how the IGS can collaborate with ISO. The next meeting of the committee will be held in Bangkok on the occasion of GeoAsia 2012.



TC-SR meeting at EuroGeo5

Reported by

Y. Miyata, Secretary of IGS TC-SR

IGS Technical Committee on Filtration – TC-F

Questionnaire on Geotextile Filters

The IGS TC on Filtration has created a survey (<https://www.surveymonkey.com/s/W9NTJMC>) on geotextile filters which is available at the IGS website (www.geosyntheticssociety.org/) to collect experiences, impressions, opinions and suggestions from academics and practitioners on the use of geotextile filters. The survey will update the state of practice on the use of such filters in different parts of the world and will contribute to a better understanding and use of geotextile filters. IGS members are most welcome in participating in the survey. So, take a few minutes of your time and give your important contribution to a better design, specification and use of geotextile filters in geo-technical and geoenvironmental applications.

Technical Session on Drainage and Filtration at GA2012

The TC on Filtration is helping organizing the technical session on Drainage and Filtration of the 5th Asian Regional Conference on Geosynthetics - Geosynthetics Asia 2012 (GA2012), to be held in Bangkok, Thailand, 13 to 16 December 2012. A variety of papers will be presented examining the use of geosynthetics in drainage of slopes and embankments, prefabricated vertical drains in soft soils, combination of vacuum and geosynthetics in drainage, electro-osmosis, etc. The high quality of the papers to be presented ensures that the session will be very interesting and members of IGS and professionals in general are highly encouraged to attend GA2012 and the technical session on drainage and filtration.

Reported by

Ennio M. Palmeira, R. Jonathan Fannin and Nicola Moraci, IGS TC on Filtration Co-Chairs

IGS Technical Committee on Barrier Systems - TC-B updates the Members at GeoAmericas

A session, sponsored by the IGS Technical Committee on Barriers was held during EuroGeo5 in Valencia Spain in September. The September 19th session was attended by the IGS-TCB leadership; Kent von Maubeuge (Naue, Germany), Boyd Ramsey (GSE, USA) and Dr. Nathalie Touze-Foltz (Irstea, France). The presentations included a brief discussion on the activities of the committee, which are further detailed below and were discussed during a working committee meeting held on the 18th. Presentations during the technical session included:

- “State of practice for geosynthetics in Spanish landfills” by García de Cortázar Ruiz de Aguirre, A., Terranova, Bilbao, Spain
- “Geosynthetic Barriers in the 21st Century-Room for improvement?” by Thomas Sangster, Downley Consultants, Ginebra, Switzerland and
- “Use of geosynthetics for technical safeguards in transport infrastructure for soil and groundwater protection” by D. Heyer, E. Birle of the Technical University Munich, Bavaria, Germany.



TC-B special session at EuroGeo5

During the committee session, discussions were held on the activities of the committee. A major focus of the committee is currently an effort to create a centralized data base listing the various barrier regulations that are in place in different countries around the world. This information (and web links) is being compiled for publication on the IGS website (<http://www.geosyntheticssociety.org>). There are multiple ways you can support these efforts; just to list a few:

- You can supply information, technology descriptions and papers to any of the many technical forums available
- You can participate in the regulations survey (email to kvmaubeuge@naue.com) and other informational exchanges sponsored by IGS and the TCB
- You can promote the proper use of barrier geosynthetics to those who need education

We welcome your contributions and participation!

The TC-Barrier group will have a session during the following upcoming events:

- Geosynthetics Asia GA2012, Bangkok, 13. – 16. Dec. 2012
- ISSMGE Conf., Paris, Sept. 2013 September 2-5, 2013

Further it is planned to have a road show on geosynthetic barriers in 2013 in Chennai, India and Kuala Lumpur, Malaysia with invited speakers. This is still in preparation and details will follow once the program is finalized.

New topics of the group will be to integrate designated young regional leaders to support with information from various regions and start preparing generic publications and presentations on geosynthetic barriers as well as installation procedures. A focus in future will also be the mining industry.

Please do not hesitate to contact the TC-B board at any time:

Kent von Maubeuge	Nathalie Touze-Foltz	Boyd Ramsey
kvmaubeuge@naue.com	nathalie.touze@irstea.fr	bramsey@gseworld.com

*Reported by
Boyd Ramsey and Kent von Maubeuge*

12th Baltic Sea Geotechnical Conference “Infrastructure in the Baltic Sea Region” 31 May – 2 June 2012, Rostock, Germany



Between May 31 and June 2, 2012 the 12th Baltic Sea Geotechnical Conference was held at the Stadthalle in Rostock, Germany. The conference was organized by the German Geotechnical Society (DGGT) in cooperation with the University of Rostock under the auspices of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE).

This series of conferences is the most important geotechnical event for the Baltic Sea Region. In former times the conference was a regional Baltic conference to bring knowledge within soil mechanics, geotechnical engineering and related areas to north-eastern countries. It was a long way after the fall of the iron curtain before the eastern and western countries really came to-

gether.

The main theme of the 12th Baltic Sea Conference was “Infrastructure in the Baltic Sea Region”.

In the forefront a total of 145 papers were submitted, and two reviews were necessary to bring together 47 papers of a high level dealing with maritime engineering, geotechnical problems of ports, offshore and onshore structures and windenergy.

The conference attracted more than 210 researchers, practitioners and students, most of them from countries in the Baltic Sea Region, but also from many other countries like Japan, the USA and Brazil.



Attentive listeners of one of the technical presentations

It was a special honor for the conference that Professor Jean-Louis Briaud, President of the ISSMGE, and Professor Ivan Vanicek, Vice President Europe of ISSMGE, attended the conference.

In addition to the conference an exhibition covered an area of 170m² in the foyer of the Stadthalle Rostock and displayed some of the geotechnical equipment and services available for researchers and professional engineers. 23 exhibitors presented their latest products and developments.



Group photo of Professor Briaud and Professor Heerten with some of the students from German universities

Before the official start, the event began in the evening of Wednesday, May 30 with a special kind of highlight. To encourage the young geotechnical students and engineers to develop a broader scope in geotechnical engineering, a meeting between the ISSMGE President Professor Jean-Louis Briaud and geotechnical students and young participants took place.

Altogether 46 students took the opportunity to come to Rostock, 29 from the German universities of Darmstadt, Berlin, Weimar, Hannover and Rostock and even 17 from the Polish universities of Szczecin and Gdansk. For about one and a half hour Professor Briaud told the young participants about the ISSMGE, listened

about what they had to say and shared his view with them and the students were able to ask questions and exchange ideas.

This meeting was followed by another highlight, the Mercer lecture. The Mercer lecture is named after Dr. Frank Brian Mercer, inventor of original geosynthetic products. It is a biennial lecture that is sponsored by Tensar International with the aim to help promote information exchange between the geotechnical engineering profession and the geosynthetics industry.

In Rostock, the Mercer lecture for the period 2012/2013 with the title "Geosynthetics for waterways and flood protection structures – controlling the interaction of water and soil" was presented by Dr.-Ing. Michael Heibaum, BAW (Federal Waterways Engineering and Research Institute), Karlsruhe, Germany.

The German Geotechnical Society supported the young participants by organizing their journey to Rostock and providing free admission to the meeting with the president and the Mercer Lecture on Wednesday.

The welcome reception and the opening of the exhibition in the evening completed the first day.

The next day started with the official opening ceremony. Welcoming addresses were given by Professor Heerten, chairman of the DGGT, as well as Professor Wolfgang Schareck, Rector of the University of Rostock, and Roland Methling, Mayor of the City of Rostock, followed by the welcoming speeches of Professor Jean-Louis Briaud, President of the ISSMGE, and Professor Ivan Vanicek, Vice President Europe of ISSMGE.



Mercer Lecture presented by Dr.-Ing. Michael Heibaum, BAW

Following the opening ceremony Keynote lectures were presented by Dr. Manfred Zeiler (Germany) about offshore wind energy and Project Manager Jens Kammer (Denmark) who described the geotechnical investigations concerning the Fehmarnbelt Fixed Link.

47 technical presentations were given in the following six sessions on Thursday and Friday:

- Traffic Infrastructure
- Research and development projects
- Constructions in soft subsoil
- Harbour construction
- Coast protection
- Foundations for offshore wind energy plants

Speakers from 13 countries talked about their experiences in the field of geotechnical engineering and present case studies. The conference provided an opportunity for the exchange of experiences and about theoretical and practical aspects.

Presentations about traffic infrastructure showed that there are similar problems in Poland and Germany and that they can benefit from the other's experiences.

Land reclamation in harbour construction was an important aspect of the conference in the context of the problems associated with settlement, ground water level and creep in sand and also with regards to climatic changes.

One of the other major important topics of the conference was the increase in generating capacity derived from wind energy over the next few years in the Baltic Sea Region. A whole session dealt with gravity based foundations, lab, chemical and mechanical tests, filter layer and geotextile sand filled containers and different versions of wind energy plants.

In several papers the increasing use of Geosynthetics in Geotechnical / Hydraulic and Coastal Engineering has been highlighted.

- Design, construction and monitoring of embankments with basal reinforcement founded on Geotextile Encased Columns (GEC) – Experience report from a special highway site in Poland
Raithel M., Sobolewsk J., Friedl G., Küster V.
- Quality control and rehabilitation of railway tracks using multi-functional geosynthetic products
Klompaker J., Niessen J., Westhus S.
- Mobile technology for the dewatering of dredged materials in geotextile tubes – the Verden trial
Cantré S., Adameit J.
- Geotextile sand-filled containers as structures against erosion of sandy coasts - a comparison to rock material relating design, functionality, eco-effectiveness and costs
Bleck M., Werth K.

In the closing ceremony Professor Vanicek invited the delegates to various other conferences in the Baltic Sea area and it was revealed that the next Baltic Sea Geotechnical Conference will be held in Lithuania in 2016.

Apart from the interesting technical program and the exhibition, a well organized social events program was also provided. The welcome reception which took place in the foyer of the Stadthalle Rostock on Wednesday, gave the attendees the opportunity to get into contact with other attendees or exhibitors.

Furthermore, the participants could enjoy a technical visit to the Seaport of Rostock and had the opportunity to go on a night-watchman walk to visit cultural and historical monuments in Rostock as well as visit an organ concert in the St. Marien Church in Rostock.



Shanty chorus "Breitling"

A Conference Dinner was held in the evening of 31 May and offered a tasteful selection of German cuisine with regional accents and a special performance of the Shanty chorus "Breitling" at the beginning and Jazz music during the dinner.

The technical visit to the Seaport of Rostock on the closing day of the conference, showing the extension by seaside land reclamation on the example of the maritime trade territory III, was the crowning event and the perfect end of a remarkable conference.

The accepted papers are published on a CD which was distributed at the conference. Further CDs can be ordered. Please visit our website www.12bsgc.de for information.

Reported by

*Dr. K. Laackmann (Managing Director of DGGT) and D. Busch (Secretary of DGGT)
DGGT Deutsche Gesellschaft für Geotechnik, German Geotechnical Society, Germany*

EuroGeo5 5th European Geosynthetics Conference Valencia, Spain, 16 - 19 September 2012



The Fifth European Geosynthetics Conference, EuroGeo5, was held on 16 to 19 September 2012, at the Convention and Exhibition Centre of Valencia, Spain.

EuroGeo5 was organized by the IGS Spanish Chapter, under the auspices of IGS International, and with the collaboration of public and private entities and scientific associations. More than 830 delegates from all over

the world participated in the conference, which was a great success.

The Honorary Committee was presided by His Royal Highness, The Prince of Asturias, Felipe de Borbón, and consisted of the President of the Valencian Community, the Mayoress of Valencia, several Ministers of Central and Local government, the Director of CEDEX and the President of IGS. The conference was opened by a representative of the President of the Regional Government and another representative of the Mayor of Valencia.

Three days of technical sessions followed, with nearly 300 papers about hydraulic structures, soil reinforcement, environmental applications, mining, erosion control, transport and building construction. These sessions were held parallel in two auditoriums and three rooms and were chaired by prominent professionals. The IV International Symposium on Water Reservoirs was concurrently held.

Prior to the opening of the conference, two short courses, organized by the IGS Spanish Chapter, were held. One of the courses was given by members of the IGS Spanish Chapter and the other one by members of the IGS Portuguese Chapter.

The conference provided:

- Four Keynote Lectures, given by Jean Pierre Giroud, Jorge Zornberg, Nathalie Touze-Foltz, and Manuel Blanco together with Angel Leiro.
- Three Educational Sessions given by Russell Jones, Martin Ziegler together with Gerhard Bräu, and Adam Bezuijen together with Luciana das Neves.
- Two panel discussions.
- A special session for the eleven students awarded at the conference.

The exhibition was also very successful, with 62 companies from all over the world, distributed in their stands located in three floors of the venue. There were three kinds of sponsors: Platinum (Cetco, Huesker and Tencate), Gold (Firestone, Geotexam, Interma, Laborcontrol, Sotrafa and Tensar) and Silver (E'grid, Fibertex, Maccaferri, Renolit, Seven States, Tenax, Thrace and Typar). The organization wishes to thank all of them for their collaboration.

At the same time, meetings of the IGS Council and of CEN/TC 189 WG 4 were held. Some companies also took the opportunity for having a meeting during the conference.

All lunches and coffees were served in the halls of the venue and attendees could taste traditional dishes from Valencia.

There was also a social programme with a welcome cocktail, a business cocktail and the congress dinner which was held in a restaurant on the Alboraya, Valencia beachfront, where the delegates could savour the traditional paella.

The conference provided a platform to discuss the most important issues of the various applications of geosynthetics, as well as the subjects related to the research and development of new products and uses. In addition, the Eurogeo5 provided a parallel exhibition area featuring the major manufacturers of geosynthetics and other related companies. All of this happened in a very good atmosphere, which helped the attendees to relate and to enjoy the events.

*Reported by
Beatriz Mateo, Assistant Secretary of IGS Spanish Chapter
Angel Leiro, President of IGS Spanish Chapter*



Opening of the conference



Plenary session



Welcome cocktail in the garden at the conference venue



Conference venue



Jorge Zornberg at IGS Awards ceremony



Keynote lecturer J.P. Giroud



Students award session



Jorge Zornberg, Pedro Abad and Angel Leiro at closing ceremony



Angel Leiro at congress dinner



Cocktail of the congress dinner

2nd International Conference on Transportation Geotechnics (2nd ICTG)

Sapporo, Hokkaido, Japan, 10 - 12 September 2012



The Second International Conference on Transportation Geotechnics (2nd ICTG) was successfully held in Sapporo, Japan, 10 – 12 September 2012, under the auspices of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), organized by the Hokkaido Branch and the TC202 national committee of the Japanese Geotechnical Society (JGS), in association with the International Technical Committee ISSMGE-TC202 “Transportation Geotechnics”, and with the support of the International Geosynthetic Society (IGS), Geo-

Institute of ASCE and Transportation Research Boarding (TRB). Thirty one international and local companies sponsored this event with ten exhibitors.

After the successful first ICTG held at the University of Nottingham, UK, in 2008 under the auspices of the International Technical Committee ISSMGE-TC3 “Geotechnics of Pavements” (currently ISSMGE-TC202), the 2nd ICTG was organized to establish new academic frameworks called “Transportation Geotechnics,” focused more to practical issues such as design, construction and maintenance management of transportation infrastructure like roads, railways, and airfields. The main subjects of the 2nd ICTG were:

- Geotechnics for Pavement, Rail Track and Airfield
- Geomaterial, including Nontraditional Materials
- Asphalt Mixtures and Hydraulically-bound Materials
- Earthworks for Transportation Facilities
- Application of Geosynthetics
- Laboratory Testing and In-situ Testing
- Modeling and Numerical Simulations
- Design, Construction and Maintenance
- Performance Evaluation and Quality Control
- Sustainability of Management and Rehabilitation
- Risk Assessment and Environmental Issues.

The participants were 243 (more than the 1st ICTG) from 30 countries: i.e., Australia (11), Belgium (2), Brazil (2), Canada (4), China (14), Egypt (2), Finland (5), France (7), Germany (1), Greece (2), Indonesia (1), Iran (4), Ireland (2), Italy (2), Japan (136), Kazakhstan (1), Kenya (1), Malaysia (1), Nepal (1), Norway (1), Pakistan (2), Portugal (5), Republic of Korea (10), Taiwan (2), Tanzania (3), Thailand (3), UK (7), USA (8), Vietnam (2) and Zambia (1).



Group Photo in front of Conference Hall of Hokkaido University, Sep. 11, 2012

Three pre-conference workshops were held on:

- Intelligent Compaction
- Challenges in Transportation Geotechnics in Extreme Climates and
- Geotechnical Challenges in Rail Track and its Transitional Zones.

The opening address was made by Prof. Seiichi Miura, Chairperson of the organizing committee, followed by the addresses by Dr. Toru Sueoka, President of the JGS, Prof. Hiroshi Saeki, President of Hokkaido University, Prof. António Gomes Correia, Chairman of ISSMGE-TC202, Prof. Fumio Tatsuoka, Immediate Past President of IGS, and Prof. Askar Zhussupbekov, Vice President of ISSMGE for Asia.

The invited lectures were; Prof. António Gomes Correia, University of Minho, Portugal, Prof. Seiichi Miura, Hokkaido University, Japan, Prof. Buddhima Indraratna, University of Wollongong, Australia, Prof. Fumio Tatsuoka, Immediate Past President of IGS, Japan, Prof. Erol Tutumluer, University of Illinois, USA, Prof. Hervé Di Benedetto, University of Lyon, France and Prof. Delwyn G. Fredlund, Golder Associates Ltd, Canada.

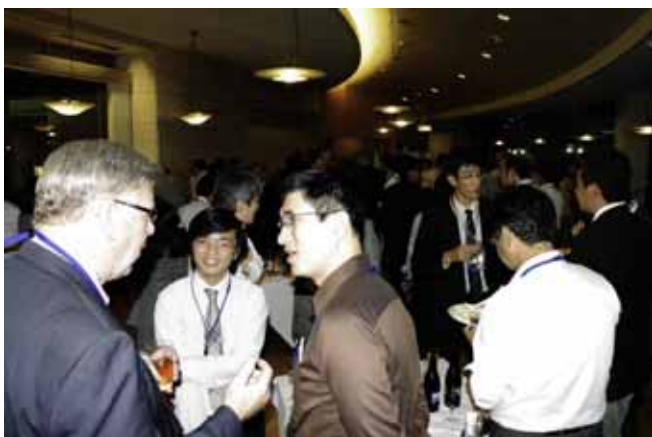
140 papers were orally presented in the technical sessions, including several special sessions organized in close liaison with ISSMGE-TC101 (Laboratory Stress-Strain Strength Testing of Geomaterials), ISSMGE-TC106 (Unsaturated Soils), and ISSMGE-TC216 (Frost Geotechnics) to discuss some specific issues essential for further developments of Transportation Geotechnics (i.e., unsaturated soils, frost geotechnics and advanced laboratory testing). The topics discussed include: asphalt mixtures and hydraulically bound materials, laboratory testing and in-situ testing, sustainability of management and rehabilitation and risk assessment and environmental issues, applications of geosynthetics in transportation Geotechnics including rural road maintenance with geotextile, subbase reinforcement with geogrid, pavement drainage with geocomposite and seismic mitigation with geogrid. Prof. Jun Otani (Chairperson of IGS Technical Committee on soil reinforcement) introduced the on-going activities of the TC.



Opening Ceremony: (from left to right): Prof. Seiichi Miura, Dr. Toru Sueoka, Prof. Hiroshi Saeki, Prof. António Gomes Correia, Prof. Fumio Tatsuoka, and Prof. Askar Zhussupbekov.



Keynote lecture by Prof. Fumio Tatsuoka



Welcome Party at the restaurant "ELM" in Hokkaido University



Banquet in Sapporo Grand Hotel



Koto performance at the Banquet



Flower arrangement by accompanying person's program

The conference was closed by an address of Dr. Nobuyuki Yoshida, Co-chairperson of the organizing committee, appreciating great efforts of the committee members including Prof. Takashi Ono, Dr. Tatsuya Ishikawa and Prof. Yukihiro Kohata. Finally, an announcement of the next ICTG in Guimarães, Portugal, 2016 was made by Prof. Correia.

The conference proceedings, which contain the invited lecturers and 140 reviewed papers, were published by CRC Press Taylors & Francis / A.Balkema.

Reported by

Tatsuya Ishikawa, Hokkaido University, Secretary general of 2nd ICTG

REMTECH EXPO 2012

6th Remediation Technology Exhibition and Conferences

Ferrara, Italy, 19 - 21 September 2012

From Wednesday 19 to Friday 21 September 2012, the 6th edition of **RemTech Expo** – Remediation Technologies Exhibition and Conferences, took place in Ferrara, Italy, with the auspices of various leading societies, including the IGS Italian Chapter (AGI-IGS) .

RemTech Expo is an unique event entirely dedicated to remediation techniques and to territory requalification, the ideal place for meetings between operators, manufacturers, contractors, institutions and academics, in order to build together workable solutions for the environment. Other qualifying elements of this 6th edition was the special section **Coast Expo 2012**, 3rd edition, dedicated to coastal protection and in particular to dredging issues, and also the special section **Inertia 2012**, 1st edition, dedicated to construction and demolition waste recycling issues.

RemTech 2012 was able to capture at Ferrara Exhibition Centre a growing number of exhibitors and visitors: if the firsts grown from 130 to 162 in comparison with the previous year, visitors passed from 3.000 in 2011 to 3.600 in 2012 (+20%).

Renewed exhibition area was characterized by 162 booths, coming from the sectors of: characterization, analysis, remediation, monitoring, demolitions, general contractors, dredging, geosynthetics, asbestos, requalification, insurances, services, design companies and environmental communication firms.

At least 10 booths were related to geosynthetics manufacturers, distributors and applicators; for the first time, there was also a booth of the International Geosynthetics Society (IGS).

At the end of the Opening Conference chaired by Daniele Cazzuffi, coordinator of the RemTech Scientific Committee and IGS Past President, the ceremony of the fourth RemTech Degree Awards took place. The Awards were assigned to the seven best theses discussed in Italian Universities from 1 January 2011 to 15 July 2012 and related to reclamation technologies items: in particular, two were related to PhD thesis, while five were referred to Master thesis.



Remtech 2012 Awards Presentation

The focus of RemTech was not only represented by the exhibition, but also by 8 Official Conferences, coordinated by the Scientific Committee, and by 8 Special Events coordinated by the Advisory Committee.

The **Proceedings of the Official Conferences** (editors: Daniele Cazzuffi and Ilaria Pietrini) are available on a CD-Rom (with ISBN number) containing 51 papers for a total of 422 pages published by DEA Edizioni: the proceedings are available at a cost by contacting info@deaedizioni.it

Fifteen countries were represented at RemTech 2012, with official delegations coming from China (12 experts), Russia (5 experts), Turkey (3 experts), Algeria (5 experts), Egypt (5 experts), Morocco (4 experts) and Tunisia (6 experts): these official delegations were respectively organized by the Emilia-Romagna region and by the Italian Trade Promotion Agency (ICE).

Following a tradition started in 2011, a Gala Dinner was organized on Thursday 20 September in one of the most beautiful old and historical buildings in Ferrara: the atmosphere was quite unique and resulted in a great success of the evening.

RemTech has confirmed his own place vocation where institutions, specialized companies, associations of category, university world (teachers, but also students and researchers), contractors and operators can dialogue, compare and collaborate at most high levels, creating a true community in the broad and interdisciplinary field of remediation technologies.

Next edition of **RemTech** (www.remtechexpo.com) will be in **Ferrara from 18 to 20 September 2013**.

See you at RemTech 2013 in Ferrara!

Reported by

Daniele Cazzuffi, IGS Past President, and Coordinator of RemTech Scientific & Advisory Committees

XXV Italian National Conference on Geosynthetics Bologna, Italy, 18 October 2012

The XXV Italian National Conference on Geosynthetics was held on 18th October 2012 in Bologna.

The Conference theme was **"Sustainable applications for the defense of the territory and the protection of environment"** concerning the use of geosynthetics for civil, geotechnical and environmental engineering applications.

The Conference was organized by the Italian Chapter of the IGS (AGI-IGS), with the participation of CTD (Technical Committee Landfills), GITISA (Italian Group of Environmental Engineering) and IWWG (International Waste Working Group), under the auspices of the School of Specialisation and Research Centre for the Conservation of Historic Places in Unstable Territories (Alta Scuola), the Bologna Engineers and Architects Association (ASSIABO) and the Department DICAM of the Bologna University.

The Conference, held in the frame of the huge SAIE Exhibition, the main event in Italy of the constructions and civil engineering sector, was divided in two different sessions.

The first session was chaired by Stefano Aversa (President of AGI, the Italian Geotechnical Society) and focused on **"Sustainability and applications to the territory"**. One keynote lecture, one invited lecture and four papers were presented.

The keynote, presented by IGS Vice-President Dr. Russell Jones (Golder Associates, Ltd., Nottingham, United Kingdom), illustrated an overview of the impact of geosynthetics on sustainable development and focuses on the view from the UK and Europe.

The other four contributions of the first session were devoted to the fundamentals of the design methods for different applications in which geosynthetics are used with reinforcement, drainage and filtration function.

The second session was chaired by Daniele Cazzuffi (AGI-IGS President and IGS Past President) and focused on the **"Durability and environmental protection"**. Also in this case one keynote lecture, one invited lecture and four papers were presented.



R. Jones, IGS Vice President, S. Aversa, AGI President,
D. Cazzuffi, AGI-IGS President

The keynote, presented by Dr. Jan Retzlaff (GEOscope GmbH & Co. KG, Steinfurt – Germany) was mainly addressed to the identification of the degradation mechanisms of the raw materials of geosynthetics, in order to develop test procedures to assess the durability of geosynthetics within a reasonable time.

The other four contributions focused on the use of geosynthetics in the design of landfills and on real case studies of hydraulic protection of dykes of river.

At the end of each session, a fruitful and interesting discussion on the different topics took place.

The next XXVI Italian National Conference on Geosynthetics will be organised in Bologna in October 2013 and will be specifically dedicated to the use of geosynthetics in reinforcement applications.

Reported by

Daniele Cazzuffi (AGI-IGS President and IGS Past President) and Nicola Moraci (AGI-IGS Secretary)

Announcements of Conferences of IGS

10th International Conference on Geosynthetics – 10ICG Berlin, Germany, 21 – 25 September 2014



The German Geotechnical Society (DGGT) and the International Geosynthetics Society (IGS) German Chapter, as a special group within the DGGT, cordially invite you to participate in the 10th International Conference on Geosynthetics (10ICG) in 2014 in Berlin, Germany.

The conference will be held from 21 to 25 September 2014 in direct connection with the 33rd Baugrundtagung (German Soil Mechanics Conference) of DGGT (23 to 26 September 2014).

As the Baugrundtagung expects 1200 participants, great synergy and interaction is expected between these events, especially in the co-organized, co-located exhibition.

The overlapping of lectures from both events will also attract many additional experts from the geotechnique and geosynthetics professions.

Venue

The 10ICG will be held in the south-eastern part of Berlin at the ESTREL convention centre, just 15 minutes from the new international airport Berlin-Schönefeld.

ESTREL offers about 50 rooms for lectures and meetings in different sizes, integrated exhibition halls (approx.

5000 m²) and a 4-star hotel (1125 rooms).

Travelling time from there to the centre of Berlin is about 20 minutes.

Language

The official language of 10ICG will be English.

Exhibition

The 5000 m² technical exhibition space is directly connected to the conference rooms and is half-way between the hotel and the lecture rooms inside the centre.

The exhibition space will be used both by 10ICG and the Baugrundtagung event.

Berlin

Berlin is the capital city of Germany and offers a tremendous number of interesting cultural events, museums and sightseeing attractions directly in the city and its surrounding area.

Berlin is the "gateway" to the eastern part of Europe. The city is easily reachable and the site of many significant political milestones not only in the history of Germany but of Europe and the world.

More than 6.5 million visitors per year experience Berlin. The 10ICG programme for accompanying persons will cover guided city tours, visits to museums and galleries - such as the Museumsinsel (a "World Cultural Heritage" site of UNESCO since 1999) and the Brandenburg Gate – as well as special offers for individual trips and visits to the surrounding area (e.g., Spreewald, Potsdam, Mecklenburg Lakes).

10ICG Conference Themes

- Green Engineering, Sustainability and Durability with Geosynthetics
- Use of Geosynthetics for Renewable Energy
- Mining, Waste Management, Contaminated Sites and Environmental Protection
- Roads, Railways and Other Transportation Applications
- Reinforcement in Walls, Slopes, Embankments and Base Courses
- Flood Control, Levee and Canals, Dams, Reservoirs and Other Hydraulic Applications
- Drainage and Filtration Properties of Geosynthetics
- Geomembrane and Geosynthetic Clay Liner Barrier Systems
- Case Histories and Innovative Uses of Geosynthetics
- Quality Control, Quality Assurance and Accreditation
- On-site Installation Technologies and Monitoring Programs
- Soil-Geosynthetic Interaction and Large-Scale Performance Testing
- Design Approaches
- Regulations and Recommendations
- Looking to the Future with New Geosynthetic Products

Call for Paper

You are invited to send in your abstracts for the conference dealing with the use of geosynthetics in the topics above **starting in January 2013**. The **deadline** for the submission is **15 May 2013**. Please find all necessary information in time on the conference webpage.

Exhibition

The 5000 m² technical exhibition space is directly connected to the conference rooms, being located half-way between the hotel and lecture rooms and accessed without having to leave the centre. The exhibition space will be used both by 10ICG and the Baugrundtagung event. The **reservation period** for the exhibition will start in **May 2013**.

For more information

Please visit the website that will be updated in due time: www.10icg-berlin.com

For further information please contact:

Gerhard Bräu (Gerhard.Braeu@bv.tum.de)

Dr. Kirsten Laackmann (service@dggt.de)

Announcements of Regional Conferences of IGS

Geosynthetics Asia 2012 5th Asian Regional Conference on Geosynthetics Bangkok, Thailand, 13 - 16 December 2012



The Fifth Asian Regional Conference on Geosynthetics (GA2012) will be held at Centara Grand Lardprao Hotel in Bangkok, Thailand from 13 to 15 December 2012. GA2012 will be hosted by the International Geosynthetics Society-Thailand (IGS-Thailand), Asian Center for Soil Improvement and Geosynthetics (ACSIG) and Suranaree University of Technology (SUT) under the auspices of the International Geosynthetics Society (IGS).

The theme of this Conference is "Geosynthetics for Sustainable Adaptation of Climate Change". The Conference theme includes the following:

Keynote Lectures

- Keynote 1: Embankments on Soft Ground and Ground Improvement (J. Chu)
- Keynote 2: Riverbank and Coastal Protection (C. Lawson)
- Keynote 3: Geosynthetics for Environmental Protection (T. Katsumi, BVS Visvanathan, N. Kotake)
- Keynote 4: Geosynthetics Innovation for Sustainable Engineering (H.Y. Jeon)
- Keynote 5: Reinforced Soil Wall (J. Kuwano)
- Keynote 6: Geosynthetic Reinforced Soil Wall (C.S. Yoo)

Theme Lectures

- PVD/Drainage (J. C. Chai)
- Erosion Control (T. W. Yee)
- Barrier/Environmental (A. Bouazza/Y. M. Chen)
- Natural Fibers and Innovation (K. Rajagopal)
- Reinforcement (J. Otani)
- Case Histories (M. Sadlier)

Important Dates (Deadlines Extended!)

15 November 2012 - Deadline of Author Registration

30 November 2012 – Deadline of Participant Registration

Welcome Dinner

13 December 2012 at Bua Restaurant (Limit: 100 persons)

Gala (Closing Dinner)

15 December 2012 (Limit: 100 persons)

Site Visits and Sightseeing

- Visit 1: Breakwater Construction and Crocodile Farm (US\$ 70)
(Limit: 30 persons)
- Visit 2: Flood Control and Bangpain Palace (US\$ 70)
(Limit: 30 persons)

Short Course on Geosynthetics Properties and Applications

12 December 2012 (Krungthep 2, Centara Grand Lardprao Hotel) (Registration Fee: US\$ 70) ; (Limit: 50 persons)

Resource Persons and Topics of the Short Course:

- Separation, Filtration, Drainage and Geotubes/Geobags for Erosion Control (Ir Chris Lawson)
- Geosynthetics Earth Reinforcements and Applications (Prof. Rajagopal)
- PVD Soft Ground Improvement and Vacuum Preloading (Prof. JC Chai)
- Geosynthetics for Mining Applications (Prof. M. Bouazza)
- Creep Analysis and Applications of Geosynthetic Reinforcement (Prof. HY Jeon)
- Applications of Geosynthetics for Landslides Mitigations (Prof. CS Yoo)
- Seismic Stability of reinforced Soil Wall (Prof. J Kuwano)
- Steel Grids Earth Reinforcements and Applications (Prof. Suksun Horpibulsuk)

- Applications of GCL Impermeable Membrane (Dr. Suttisak Soralump)
- Geomembrane Applications for Reservoir Liners and Covers (Ir John Cowland)
- Geosynthetic Reinforcement of Pavements on Soft Ground (Dr. Sompote Youwai)
- Creep Characteristics of Geogrids (Dr. Warat Kongkitkul)

Language

The official language of this conference will be English

For more information

For further information, please contact: GA2012 Secretariat

Email: geosyntheticsasia2012@gmail.com or bergado@ait.ac.th

Website: <http://www.geosynthetics-asia2012.com/>

Phone: +66-2 524 5500/5512

2nd African Regional Conference on Geosynthetics GeoAfrica2013 Accra, Ghana, 09 - 12 Dec 2013

The 2nd African Geosynthetic Congress, GEOAFRICA 2013, will take place in Accra, the Capital City of Ghana, from 9 to 12 December 2013. Ghana offers a warm and friendly people and a high degree of personal safety for this IGS - African Regional Conference.

As a new oil exporting country, infrastructural development is key on the agenda. In Ghana, and Africa in general, it is certain that geosynthetic use will rise in the coming years. It is therefore critical that we provide a technical venue to support geosynthetic education, communication and networking. As such, we invite geosynthetic manufacturers and practitioners to make an early foothold in the country.

For more Information

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Kwame Nkrumah University of Science and Technology, Kumasi-Ghana

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Announcements of Conferences under the Auspices of IGS

3rd Int. Conference on Geotechnical Engineering (ICGE'13) Hammamet, Tunisia, 21 - 23 February 2013



The Geotechnical Engineering Research Team (Unité de Recherche Ingénierie Géotechnique-URIG) has the pleasure to invite you for the participation in the third International Conference on Geotechnical Engineering (ICGE'13) to be held at Hammamet (Tunisia) February 21 - 23, 2013, under the auspices of the IGS.

The ICGE'13 provides a forum for exchange ideas and discussions on topics related to Geotechnical Engineering. Senior and young researchers, scientists and engineers from overseas are invited to attend this conference, to share and to exchange their knowledge.

ICGE'13, also, includes three workshops:

- 1. Workshop on "Sustainable Construction",
- 2. Workshop on "Geosynthetics",
- 3. Workshop on "Micromechanical Experimentation and Modeling of Granular Soils".

Aims and Scopes

The objectives of the ICGE'13 are to promote good relationship and cooperation between geotechnical researchers and engineers. Such an international event also provides an opportunity for the exchange of experiences and information about theoretical, practical and technical aspects related to Geotechnical Engineering. The conference is also an occasion to look at the developments, advances and innovation achievements in soil mechanics, rock mechanics and applied geophysics. ICGE'13 represents a world forum for the presentation and the publication of theoretical contributions, numerical computations and experimental investigations in the field of Geotechnical Engineering.

Main Topics

- Soil behavior
- Soil improvement
- Foundations and underground constructions
- Analysis and management of seismic risk
- Rock mechanics and slope stability
- Environmental geotechnics
- Unsaturated soils
- Hydraulic works

Keynote Lectures

- Advances in the Use of Geosynthetics in Geotechnical Engineering, J. G. Zornberg. (U.T. at Austin, USA)
- Stabilization of Problematic Soils: Sustainability and Durability Assessments, A. J. Puppala (The University of Texas at Arlington, Texas, USA).
- Analysis of Dynamic Loading and Penetration of Soils - Applications to Site Investigation and Ground Improvement, J. Carter (University of Newcastle Callaghan, Australia)
- Structural Formation of Transportation Infrastructure in China, Y. Qiu (Southwest Jiaotong University, Chengdu, China).
- Micromechanical Modeling and Analysis of Saturated Granular soils, M. Zeghal (Rensselaer Polytechnic Institute in Troy, New York, USA).
- Centrifugal Modeling of Soil Contamination and Remediation, J. N. Meegoda (New Jersey Institute of Technology, Newark, USA).

Important Dates

Notification of Paper Acceptation	30 November 2012
Reception of Ready Papers	31 December 2012
Conference Date	21 - 23 February 2013

Languages

English is the official language of the conference.

Nevertheless a limited number of papers written in French may be accepted.

Simultaneous translation to French is affordable during the main sessions of ICGE'13.

For more Information

Further information can be found at: <http://www.icge13.com>

Geosynthetics 2013

Long Beach, California, USA, 01 – 04 April 2013



Geosynthetics 2013 is co-locating with the Southwest Geotechnical Engineers Conference and will also feature the Geosynthetic Research Institute's GRI-25 Conference. It will be held under the auspices of the IGS.

About the Southwest Geotechnical Engineers Conference

The Southwest Geotechnical Engineers Conference is one of the Federal Highway Administration's (FHWA) most successful geotechnical technology transfer activities. State departments of transportation (DOT) and FHWA personnel who participate in this conference consider it one of the best and most productive technical sessions they attend each year.

The agenda includes a variety of geotechnical topics and case histories—deep foundations, embankments, earth retaining structures, landslides, soil stabilization, and rock fall, among others. Participants for this conference rep-

resent members from nine state DOTs: Kansas, Oklahoma, Louisiana, Texas, Nevada, California, New Mexico, Hawaii, and Arizona. Other attendees include FHWA and Army Corps (USACE) personnel, contractors, consultants, and suppliers.

The conference is typically two and a half days long including a half-day technical field trip. The participants also find this event a great opportunity to interact with colleagues from various parts of the country and to share their experiences. That networking will be particularly effective at Geosynthetics 2013.

About the GRI-25 Conference

In 2013, the GRI-25 conference will include a 25-year anniversary: "Retrospectives on the geosynthetic industry and glimpses into the future."

The conference will reflect on where the geosynthetics industry has been and peek into the future. GRI-25 will explore geosynthetics history and future during four distinct sessions:

Session 1—Geosynthetic Structure, with presentations on resins, additives, manufacturing, specifications, testing, design, and installation.

Session 2—Geosynthetic Materials, with presentations on geosynthetic reinforcement, geotextile filters, geomembranes, geonets/geocomposites, geosynthetic clay liners, and geofoam.

Session 3—Geosynthetic Systems, with presentations on walls and slopes, liner systems, waterproofing systems, heap leach mining, pavements, and erosion control.

Session 4 —Geosynthetic Organizations, with presentations on IFAI/GMA, IGS, federal agencies, ASTM, *Geosynthetics* magazine, and GSI.

Written papers will be collected in a proceedings (with no limit on the amount of detail), followed by relatively short presentations at the conference in Long Beach, Calif.

About the Geosynthetics 2013 schedule

The Geosynthetics 2013 conference will also include plenary lectures, short courses, technical sessions, panel discussions, a large exhibit hall, lunches in the exhibit hall, an opening night reception in the exhibit hall, and many networking opportunities.

About lodging

Registration and housing options are now open—book early for the best hotel rates. We have negotiated special conference rates at the Hyatt, Renaissance, and Westin hotels in Long Beach. Please go to the Geosynthetics 2013 website's housing page for booking information: www.geosynthetics2013.com/housing_travel.cfm

About Long Beach

Long Beach, Calif., is south of central Los Angeles, settled along more than five miles of sandy coastline. It is the quintessential getaway, boasting both the ambience of a sophisticated urban center and the charm of a seaside community.

Located 20 miles south of Los Angeles, California's fifth-largest city offers visitors a range of oceanfront hotels, attractions, shopping, recreational activities, art and culture, restaurants, and nightly entertainment that make it an ideal destination any time of the year.

The Geosynthetics 2013 conference is at the Long Beach Convention and Entertainment Center. Getting to Long Beach is easy, with direct flights into the Long Beach Airport (LGB) from many cities. If you prefer to fly into Los Angeles (LAX) or Orange County (SNA), Long Beach is about a 30-minute drive from either airport.

Make your plans now to attend Geosynthetics 2013 in Long Beach.

For more information

Conference webpage: <http://www.geosynthetics2013.com/>

For further information please contact:

Technical Program Co-Chairs: Shobha Bhatia Syracuse University, skbhatia@syr.edu
Stan Boyle Shannon & Wilson, srb@shanwil.com

Technical Program Manager: Barbara Connett, bjconnett@ifai.com

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

This symposium is held to honor the research achievement of Prof. Dov Leshchinsky. He is a world-renown researcher and educator on reinforced soils and has been a professor of geotechnical engineering at the University of Delaware for more than 30 years.

The symposium will be held under the auspices of:

- the International Geosynthetics Society
- the Italian Geotechnical Association
- TC 101 & TC 305 of the International Society of Soil Mechanics and Geotechnical Engineering
- Department of Civil, Environmental and Materials Engineering (DICAM), University of Bologna
- Japanese research institutes (Public Works Research Institute, Railway Technical Research Institute and National Institute for Rural Engineering).

Symposium topics

- Geosynthetic-reinforced soil retaining walls
- Geosynthetic-reinforced soil slopes
- Construction of reinforced embankments over soft soil
- Geotextile tubes
- Geosynthetic-reinforced soil structures for railways and highways
- Properties of backfill soils, geosynthetics, and soil-geosynthetic interaction

Special and keynote lectures

- Leshchinsky, D. (USA): Design approaches to geosynthetic-reinforced walls and slopes
- Cazzuffi, D. (Italy): Geosynthetics engineering
- DiMaggio, J.D. (USA): Geosynthetic-reinforced soil walls and slopes: Best practices in design and construction and reality: Why they differ
- Koseki, J. (Japan) & Shibuya, S. (Japan): Mitigation of disasters by earthquakes and rains/floods by means of geosynthetic-reinforced soil retaining walls
- Nicola Moraci (Italy): Soil-geosynthetic interaction: Design parameters from experimental and theoretical analysis
- Tatsuoka, F. (Japan): Laboratory stress-strain tests for developments in geotechnical engineering research and practice (Bishop Lecture revised for Geosynthetics Engineering)

Abstracts should be submitted online with further instructions available at

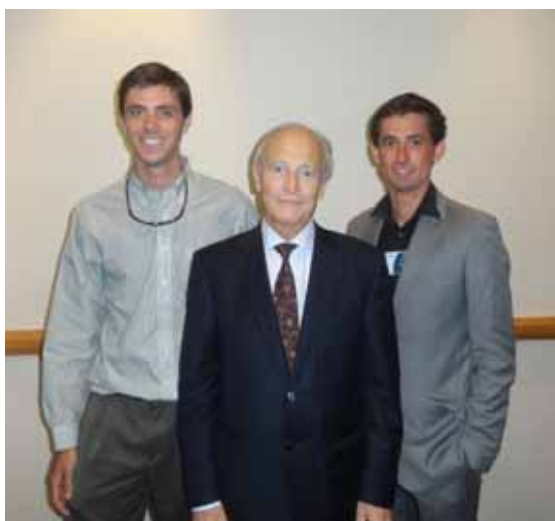
<http://www.civil.columbia.edu/bologna2013>

Organizing Committee

- Fumio Tatsuoka, Tokyo University of Science, Japan
- Guido Gottardi, University of Bologna, Italy
- Hoe I. Ling, Columbia University, USA
- Jie Han, University of Kansas, USA

News from the IGS Chapters and the Membership

One-Day Seminar “Filtration and Lessons Learned from Structures Containing Geosynthetics”



The experienced and the new faces of geosynthetics, Dr JP Giroud with seminar attendees Preston Kendall and Dan Wisshaw.

The recent success of the geosynthetics seminars saw the ‘father of geosynthetics’, Dr JP Giroud, presenting to packed houses in Brisbane, Sydney, Melbourne and Perth.

The Australian Chapter of the International Geosynthetics Society hosted the national seminars, which were sponsored by Geofabrics Australasia Pty Ltd.

Dr Giroud was accompanied by fellow experts in the geosynthetics field, representatives from Golder Associates, Monash University, SMEC, SKM, Queensland TMR and Geofabrics presented their experiences with geosynthetics.

The one day seminar was titled ‘Filtration and Lessons Learned from Structures Containing Geosynthetics’.

- In the filtration session Dr Giroud presented the ‘Terzaghi’ lecture defining the state of the art in terms of geotextile filter design.
- The second session Dr Giroud and guest

speakers presented on the types of failures which can occur when using geosynthetics and how to avoid similar occurrences.

Delegates were eager to hear how the use and knowledge about geosynthetics has evolved from the first geotextiles used in dams in 1970 to experiences with geomembrane damage from kangaroos in 2011.

Each presentation added value to the field and can be used as an educational tool for engineers when dealing with geosynthetics. The seminar attracted engineers from a wide range of disciplines from roads and geotechnical engineering to mining. An encouraging aspect of the seminar was the number of young engineers (and engineering students) who attended the seminars who learned a great deal from the presenters and who will hopefully become the "face" of geosynthetics in the future.

Reported by

Dijana Stangolev, Australasian IGS Chapter

IGS Brazil makes Efforts to strengthen the Standardization Process in Brazil

Since May this year, when a meeting was held to install the Commission of Special Studies on Geosynthetics of the Brazilian Association of Technical Standards - ABNT/CEE-175, an intensive review of existing Brazilian standards is being carried out, having been approved for Public Consultation during this period about 8 review texts and 2 new drafts. This ABNT Commission was requested by IGS Brazil and will be a mirror of ISO / TC 221 Geosynthetics. The first phase of the Commission's work is mainly focused on the standards concerning test methods for determining geosynthetics's characteristics.

Besides that, it was held in September, in São Paulo, the first meeting of the Working Group to discuss the draft IGS Brazil Recommendation pr002/2012- Requirements for Geosynthetics Applications - Part 1: Geotextiles & Geotextiles Related Products and Part 2: Geosynthetic Barriers. According to Professor Delma Vidal, vice president of IGS Brazil and coordinator of the WG, the purpose of the group is to prepare an IGS Brazil Recommendation to indicate the requirements to be met by manufacturers and distributors aiming the presentation of properties of a product, and to offer designers, end users and other interested parties, tools and guidelines that could assist them in the specification, reception and acceptance of the products.

The proposed draft presents the characteristics required for the use of geosynthetics and their relevance in specific applications, the appropriate test methods and the procedures for assessing conformity and durability.

Reported by

Carolina Carvalho, Brazilian IGS Chapter

2nd National Congress IGS Mexican Chapter Mexico City, Mexico, 11 - 13 October 2012



Jorge Zornberg, IGS President

The Congress theme was "Los Geosintéticos y el Desarrollo Sostenible" (The Geosynthetics and the Sustainable Development). The Congress was organized by the Mexican Chapter of the IGS under the auspices of the School of Textiles Engineering of the "Instituto Politécnico Nacional"

More than 80 participants from all over the country attended the Congress, which was divided in 10 different sessions, and 7 keynote lectures, the topics presented covered a wide range of successful throw in Mexico works in diverse areas as: municipal solid waste, mining, transport, coastal erosion control, etc.

Dr. Jorge Zornberg, international president of IGS showed in his lecture, the great future of these materials and technologies. Other illustrious and renowned engineers honored this congress with their lectures: Miguel de la Torre, past president IGS Peru; Luis Carpio from Dominican Republic, Reinaldo Vegameyer from USA, Aaron Aburto from SCT (Mexican government agency equivalent to the U.S. FHWA) Rafael Morales Geosynthetics Consultant, Rafael Rocha Geosynthetics Consultant.

Reported by

Mexican IGS Chapter

GSI Fellowship Announcement



The Geosynthetic Institute is delighted to announce the recipients of the 2012-'13 academic year GSI Fellowship Awards. In order to be eligible, students must

- focus on a geosynthetic topic,
- have a passed his/her candidacy examination leading to a doctoral degree, and
- be recommended by his/her major advisor.

The GSI Board of Directors made the selections from a number of proposals from universities around the world. Announcements for the sixth year of the program will appear this winter, as well as being announced on the institute's website at www.geosynthetic-institute.org

GSI Fellowship Status for 2012-'13 Academic Year* Class 4 (b) – 2nd Year Funding at \$5,000 per student No.

No.	Name	University	Advisor	Topic
3-11	Felix Jacobs	RWTH Aachen University	Martin Ziegler	Geogrid Reinforced Soil in Biaxial Compression Tests
4-11	Mahmoud Khan	University of Syracuse	Shobha Bhatia	Dewatering Performance of Geotextile Tubes

Class 5 (a) – 1st Year Funding at \$10,000 per student

No.	Name	University	Advisor	Topic
1-12	Chuangi Wang	University of Memphis	David Arellano	Properties of Recycled Expanded Polystyrene
2-12	Xunchang Fei	University of Michigan	Dimitrios Zekkos	Biodegradation of Geotextiles
3-12	Jitendra K. Thakur	University of Kansas	Jie Han	Recycled Asphalt Used in Geocells

*Please contact Jamie Koerner at jrkoerner@verizon.net for information on the students and their respective projects. A complete history of the fellowship program is also available.

Reported by

George R. Koerner, Ph.D., P.E., CQA
Director - Geosynthetic Institute Emeritus

Robert M. Koerner, Ph.D., P.E., NAE
Director – Geosynthetic Institute

Teaching Geosynthetics by Bob Koerner (Drexel/GSI)

Some of you are probably aware that a new 6th Edition of the textbook “Designing With Geosynthetics” became available on January, 2012. It is in two volumes (914 pages total) and the “on-demand” publisher is Xlibris. It is sold as hardback, softback and e-book. The price situation (compared to the 5th Edition from a traditional textbook publisher at over \$155) is favorable, particularly the e-book version.

Version	GSI Bookstore	Xlibris	Amazon	Barnes & Noble
Volume 1				
• Hardback	35.00	34.99	34.99	33.43
• Softback	24.00	22.97	22.74	22.97
• e-Book	n/a	3.99	3.39	3.39
Volume 2				
• Hardback	35.00	34.99	30.61	33.08
• Softback	24.00	23.99	23.99	22.97
• e-Book	n/a	3.99	3.39	3.39

*In order to facilitate faculty use, particularly for students using the e-book version, I have just about finished a 750-

slide power point presentation of the entire book cover-to-cover. I envision faculty teaching from it with the students following on their own PC's using the e-book version. The power point CD will be available **free** by the end of September and it is not encrypted, so you can modify it as you desire.

Please send an e-mail to me at robert.koerner@coe.drexel.edu with your postal address and I'll be sure you get it. Best regards to all.

*Reported by
Robert M. Koerner, Director – Geosynthetic Institute*

EBGEO – German Recommendations with Discount for IGS Members

For the English version of the EBGEO (German Recommendations for Design and Analysis of Earth Structures using Geosynthetic Reinforcement) a special **discount of 20 % for IGS members** is available. Please use the following promotion code **IGS20** while ordering the book through the following webaddress: <http://goo.gl/mS4ke>
If you prefer ebooks - meanwhile also this version of EBGEO is available (same discount!).

*Reported by
Gerhard Bräu, Chairman of EBGEO working group of German Geotechnical Society DGGT*

CUR Report 243 “Durability of Geosynthetics”

Geosynthetics are often used in applications which are expected to last for 100 years or more. It should be possible to achieve this goal if the geosynthetics are produced from polymers with the right additives.

Our understanding of the degradation mechanisms has increased considerably over recent years, as witnessed by the many papers that have been published in which accelerated tests are used to predict long term effects.

If a geosynthetic is used in a structure with such a long service life, it must fulfil stated design requirements. This presents the engineer with a difficult problem as the standardized test methods, mostly accelerated tests using increased temperatures, only assure lifetimes of 25 years or less. No standardized method exists to ensure a service life for more than 25 years. Any such test is unlikely to be easy to perform and its interpretation will require experience. Some institutes in Europe already make assessments of geosynthetics for specific applications such as for reinforcement applications with a required service life of 120 years.

The Dutch non-profit construction industry research association, CUR Building & Infrastructure, has taken the initiative in preparing a report which summarizes all the know-how and experience currently available in this field. It will allow engineers, designers, the quality controller and supervising engineers on site, and the owners of a project to understand the various degradation mechanisms. It describes the methods available to predict the service life of geosynthetics, gives guidance on how to make an assessment and shows how that assessment can be verified.

The report has been written by Dr. J.H. Greenwood, Dr. H.F. Schroeder and W. Voskamp, who was also the editor. It was supervised by a steering committee of experts and all chapters have been peer reviewed.

This state-of-the-art report consists of 3 sections:

Section 1 describes in general the methods which are used to determine the service life and to control and verify material delivered on site. It also explains the use of reduction factors for the calculation of the long term properties.

Section 2 gives an overview of the types of geosynthetics and the polymers from which they are made. The general principles of accelerated testing are explained.

Section 3 describes the degradation mechanisms in more detail: chemical degradation including oxidation and hydrolysis, weathering, tensile and compressive creep and mechanical damage. The methods for applying reduction factors to account for the various mechanisms in the calculation of the service life of a geosynthetic are also described in detail.

The report is published as a 275 page document, with the title: CUR publication 243 “Durability of Geosynthetics”.

Thanks to the grants of various government agencies and financial support of certifying institutes, producers and construction companies, it is possible to make the report available to everyone who is interested at no cost.

It can be downloaded from the website of CUR :

http://www.curbouweninfra.nl/upload/documents/C187_S_12_52224.pdf

Further information:

Fred.Jonker@CurBouwenInfra.nl

Safety Book: How to prevent Risks during Geomembranes Installation?

The French association of Geomembranes installers (AFAG, www.afag.asso.fr) has recently published a book dedicated to educating new installers of geomembranes of the risks that can be encountered during installation and how to avoid them..

The safety book is fully illustrated in order to make the understanding easier. It is made of nine parts explaining various situations that can be encountered among which unloading, handling, cutting, use of generating sets. Instructions are also given in case an accident would occur during installation.

It is introduced to new installers by the head of the team.

Such a guide book was prepared as it is thought that safety is an important part to increase the quality of installation. The fully illustrated guide can also help people which French is not fluent to understand all situations.



Reported by

Nathalie Touze-Foltz, IGS Chapter Correspondent of France

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under complete reconstruction!

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- If you find your information is incorrect please contact your chapter secretary or if you are not affiliated with a chapter contact the IGS secretary. Please also advise the IGS News editor

Conferences Symposia Workshops

Calendar of Events



Short Courses Expositions Trade Shows

Third African Young Geotechnical Engineering Conference (3AYGEC'12)
Cairo, Egypt
16 - 18 November 2012
E-mail: aygec3@yahoo.com

GEOSYNTHETICS ASIA 2012 (GA2012)
5th Asian Regional Conference on Geosynthetics
Bangkok, Thailand
13 - 16 December 2012
www.set.ait.ac.th/acsig/igs-thailand

4th International Seminar on Forensic Geotechnical Engineering
Bangalore, Karnataka, India
10 - 12 January 2013
E-mail: gls@civil.iisc.ernet.in

First Pan-American Conference on Unsaturated Soils (Pam-Am UNSAT 2013)
Cartagena de Indias, Colombia
20 - 22 February 2013
E-mail: pana-munsat2013@uniandes.edu.co
<http://panamunsat2013.uniandes.edu.co>

3rd Int. Conference on Geotechnical Engineering (ICGE'13)
Hammamet, Tunisia,
21 - 23 February 2013
<http://www.icge13.com>

FS-KGEO 2013
Munich, Germany
07 March 2013

E-mail: g.braeu@bv.tum.de
<http://www.gb.bv.tum.de/fskgeo>

Geosynthetics 2013
Long Beach, California, USA,
01 - 04 April 2013
www.geosynthetics2013.com

9th Rencontres Géosynthétiques
20th Anniversary of Rencontres Géosynthétiques
Dijon, France
9 - 11 April 2013
www.rencontresgeosynthetiques.org

Experimental Micromechanics for Geomaterials
Hong Kong, China (Hong Kong S.A.R.)
23 - 24 May 2013
E-mail: owlam@hku.hk

Second International Symposium on Geotechnical Engineering for the Preservation of Monuments and Historic Sites
Napoli, Italy
30 - 31 May 2013
E-mail: secretariat@tc301-napoli.org
www.tc301-napoli.org

5th International Symposium on Geotechnical Engineering, Disaster Prevention and Reduction, and Environmentally Sustainable Development
Incheon, South Korea
15-17 May 2013
E-mail: ecshin@incheon.ac.kr

Recent advances and challenges in

geotechnical earthquake engineering Mini-Symposium within the framework of:

4th International Conference on Computational Dynamics & Earthquake Engineering (COMPDYN 2013)
Kos island, Greece
12 - 14 June 2013
E-mail: cvieira@fe.up.pt or jt@science.tuc.gr

http://compdyn2013.org/en/static/accepted-minisymposia_en.aspx

TC215 ISSMGE - International Symposium on "Coupled Phenomena in Environmental Geotechnics (CEG) - from theoretical and experimental research to practical applications"

1 - 3 July 2013
Torino, Italy
E-mail: guido.musso@polito.it
andrea.dominijanni@polito.it

Fifth International Young Geotechnical Engineers' Conference (5iYGEC'13)
Paris, France
31 August - 01 September 2013
E-mail: yujun.cui@enpc.fr
<http://www.lepublicsystemepco.com/EN/events.php?IDManif=696&IDModule=21&PPAGE=&PAGE=&TEMPLATE=&CS S=&IDRub=>

18th International Conference for Soil Mechanics and Geotechnical Engineering
Paris, France
1 - 5 September 2013
E-mail: vgauthier@lepublicsysteme.fr
www.issmge2013.org

REMTECH EXPO 2012
Remediation Technologies and Re-qualification of the Territory Exhibition - 6th Edition
Ferrara, Italy
18 - 20 September 2013
E-mail: info@remtechexpo.com
www.remtechexpo.com

International Symposium on Design and Practice of Geosynthetic-Reinforced Soil Structures
Bologna, Italy
14 - 16 October 2013
<http://www.civil.columbia.edu/bologna2013>

The 2nd African Regional Conference on Geosynthetics GeoAfrica2013
Accra, Ghana
09 - 12 Dec 2013
E-mail: skampadu.coe@knust.edu.gh

8th International Conference on Physical Modelling in Geotechnics 2014 (ICPMG) (14-17 January)

Perth, Western Australia, Australia
14 - 17 January 2014
E-mail: icpmg2014@arinex.com.au
Website: <http://icpmg2014.com.au/>

8th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE14)
Delft, Netherlands, The
18 - 20 June 2014
E-mail: info@numge2014.org
www.numge2014.org

TC204 ISSMGE International Symposium on "Geotechnical Aspects of Underground Construction in Soft Ground"
- IS-Seoul 2014
Seoul, Korea
25 - 27 August 2014
E-mail: csyoo@skku.edu

10th International Conference on Geosynthetics
Berlin, Germany
21 - 25 September 2014
E-mail: g.braeu@bv.tum.de
www.10icg-berlin.com

33rd Baugrundtagung with Exhibition „Geotechnik“
Berlin, Germany
23 - 26 September 2014
www.dggg.de

XVI European Conference on Soil Mechanics and Geotechnical Engineering
13 - 17 September 2015
Edinburgh, Scotland, United Kingdom
E-mail: derek_smith@coffey.com
www.xvi-ecsmge-2015.org.uk/

Note:
The conference announcements are shown with different graphics due to their priority for IGS:

IGS Conference

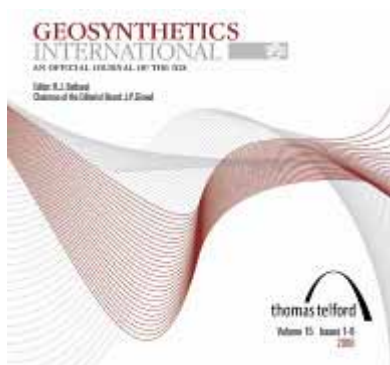
Conference organized under the auspices of the IGS

Conference under the auspices or with the support of an IGS Chapter

Official Journals of the IGS

Electronic Journals Free to IGS Members

Geosynthetics International



Geosynthetics International is an official journal of the IGS and has established itself as a premier peer-reviewed journal on geosynthetics. The Journal publishes technical papers, technical notes, discussions, and book reviews on all topics relating to geosynthetic materials (including natural fiber products), research, behaviour, performance analysis, testing, design, construction methods, case histories, and field experience.

Geosynthetics International is only published electronically starting Volume 10 (2003) by Thomas Telford and is free to IGS Members. All others, e.g., corporations, companies, and university libraries, can subscribe at a rate of £ 421 / US\$ 870. An individual rate for those non-members whose organization subscribes, but would like an additional personal subscription (including the update CD) will be available for £ 60 / US\$ 108.

The update CD is issued annually as part of the subscription for non-IGS Members and includes all papers published in that year. IGS Members can opt to buy the CD for US\$ 100.

Visit the Journal's web site given below for subscription information and instructions for accessing the latest issues.

Papers should be not published in full elsewhere and should be sent to one of the following individuals:

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Content of Volume: 19, Issue: 4 (August 2012)

- Absorption and discharge capacity tests on natural prefabricated vertical drains, pp. 263–271 (9), B.S. Asha; J.N. Mandal
- Behaviour of reinforced structures under simulated toe scouring, pp. 272–283 (12), C.-C. Huang; Y.-S. Chen
- Stability analyses of reinforced walls subjected to simulated toe scouring, pp. 284–291 (8), C.-C. Huang; Y.-S. Chen
- Model tests on geosynthetic-reinforced stone columns: a comparative study, pp. 292–305 (14), K. Ali; J.T. Shahu; K.G. Sharma
- Model tests for anchored geosynthetic slope systems under dry and seepage conditions, pp. 306–318 (13), R.-H. Chen; P.-C. Chi; K.-Y. Fon
- On measuring the hydraulic transmissivity of the geotextile cover of geosynthetic clay liners, pp. 319–323 (5), H.M. Abuel-Naga; A. Bouazza; E. Lalot

Please find the download of the articles at:

<http://www.icevirtuallibrary.com/content/issue/gein/19/4>

For the IGS members to have FREE access to the papers they MUST log in through the IGS website.

Content of Volume: 19, Issue: 5 (October 2012)

- Protecting roller-compacted concrete armored emergency spillway against uplift with geocomposite drain: Loxahatchee Reservoir example, pp. 324–338 (15), A.T. Özer; L.G. Bromwell
- Modelling the geotextile tube dewatering process, pp. 339–353 (15), T.W. Yee; C.R. Lawson
- Development of numerical model of wrap-faced walls subjected to seismic excitation, pp. 354–369 (16), A. Bhat-tacharjee; A. Murali Krishna
- Energy-based horizontal slice method for pseudo-static analysis of reinforced walls, pp. 370–384 (15), S. Sar-bishei; A. Fakher
- Model tests of square footing resting on fibre-reinforced sand bed, pp. 385–392 (8), A. Kumar; A. Kaur
- Numerical modelling of landfill lining system–waste interaction: implications of parameter variability, pp. 393–408 (16), A.H.I. Sia; N. Dixon
- Key parameter for tensile and compressive strength of fibre-reinforced soil–lime mixtures, pp. 409–414 (6), N.C. Consoli; M. Bellaver Corte; L. Festugato

Please find the download of the articles at:

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Best Geosynthetics International Paper for 2011

Geosynthetics International is an official journal of the International Geosynthetics Society and serves the mandate of the society to disseminate important technical developments to its members.

We are delighted to announce the best paper in Volume 18 (2011) based on votes cast by the Editorial Board Members. In this competition the Editor and Editorial Board Chairman were not eligible for this award and did not vote.

The "Best *Geosynthetics International* Paper for 2011" award goes to:

Brandl, H. (2011). Geosynthetics applications for the mitigation of natural disasters and for environmental protection. *Geosynthetics International*, 18, No. 6, 340-390.

The following paper was voted runner-up and thus receives honourable mention as "one of the best papers published in *Geosynthetics International* in 2011":

Fox, P.J., Ross, J.D., Sura, J.M. and Thiel, R.S. (2011). Geomembrane damage due to static and cyclic shearing over compacted gravelly sand. *Geosynthetics International*, 18, No. 5, 272–279.

We thank the members of the Editorial Board for participating in the best paper selection process and congratulate the authors of these excellent papers. Each paper reflects the high standards of the Journal and is an important contribution to our geosynthetics discipline.

Geosynthetics International is published by Thomas Telford Ltd. All IGS members have free access to these papers.

Reported by

R.J. Bathurst, Editor

J.P. Giroud, Chairman of the Editorial Board

Geotextiles & Geomembranes



Geotextiles and Geomembranes is dedicated to the mission of the IGS, which is to promote the scientific and engineering development of geotextiles, geomembranes, related products, and associated technologies.

The Journal publishes technical papers, technical notes, discussions, and book reviews on all topics relating to geosynthetics, research, behaviour, performance analysis, testing, design, construction methods, case histories, and field experience.

Papers should be submitted electronically as a Microsoft Word or pdf file to: kerry@civil.queensu.ca

Please ensure the text is double spaced, there is an abstract with keywords included, and tables and figures are at the end following the text. Please check the Journal's instructions for authors for additional information regarding submissions. The Journal strives to provide the authors with quick, constructive reviews, and we appreciate the author's hard work in addressing these comments and quick return

of revised papers.

Geotextiles and Geomembranes is now available free in electronic format to IGS Members. To activate free access and to create your personal account, you will need your IGS Membership Number. If you do not know your Membership Number, please contact the IGS Secretariat at IGSSec@geosyntheticssociety.org

For instructions on how to activate access and create your personal account, go the web site provided below.

A hardcopy of *Geotextiles and Geomembranes* is available at a reduced subscription rate to individual and Corporate Members of the IGS. Individual IGS Members may subscribe at an 84% discount: US\$170 for six issues. IGS Corporate Members may subscribe at a 64% discount: US\$396 for six issues. Please indicate that you are an IGS Member when requesting the special price.

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For direct connection to the home page of the journal with the possibility to download PDF-files of the full papers (IGS members and abonents only) please follow the link at the end of the following content listing.

Content of Volume 35 (December 2012)

Monitoring of a landfill side slope lining system: Instrument selection, installation and performance, Pages 1-13, Katarzyna A. Zamara, Neil Dixon, D. Russell V. Jones, Gary Fowmes

Performance of geocell-reinforced recycled asphalt pavement (RAP) bases over weak subgrade under cyclic plate loading, Pages 14-24, Jitendra K. Thakur, Jie Han, Sanat K. Pokharel, Robert L. Parsons

Predictive modeling on seismic performances of geosynthetic-reinforced soil walls, Pages 25-40, K.Z.Z. Lee, N.Y. Chang

Laboratory investigation on the effect of transverse member on pull out capacity of metal strip reinforcement in sand, Pages 41-49, J. Esfandiari, M.R. Selamat

A new theoretical method to evaluate the upper limit of the retention ratio for the design of geotextile filters in contact with broadly granular soils, Pages 50-60, Nicola Moraci, Domenico Ielo, Maria Clorinda Mandaglio

3D numerical analyses of geosynthetic encased stone columns, Pages 61-68, L. Keykhosropur, A. Soroush, R. Imam

Durability of transesterified jute geotextiles, Pages 69-75, Prosenjit Saha, Debasis Roy, Suwendu Manna, Basudam Adhikari, Ramkrishna Sen, Sukumar Roy

Discrete element modelling of cyclic loads of geogrid-reinforced ballast under confined and unconfined conditions, Pages 76-86, Cheng Chen, G.R. McDowell, N.H. Thom

Development of a methodology for the evaluation of geomembrane strain and relative performance of cushion geotextiles, Pages 87-99, W.P. Hornsey, D.M. Wishaw

Evaluation of a final cover slide at a landfill with recirculating leachate, Pages 100-106, Craig H. Benson, Tuncer B. Edil, Xiaodong Wang

Geogrid-reinforced lime-treated cohesive soil retaining wall: Case study and implications, Pages 112-118, Guangqing Yang, Huabei Liu, Peng Lv, Baojian Zhang

Geotextile sand filled containers as coastal defence: South African experience, Pages 120-130, Stefano Corbella, Derek D. Stretch

Uplift behavior of plates embedded in fiber-reinforced cement stabilized backfill, Pages 107-111, Nilo Cesar Consoli, Antônio Thomé, Vinicius Girardello, Cesar Alberto Ruver

Corrigendum to 'Model experiments on piled embankments. Part II' [Geotextiles and Geomembranes volume 32 (2012) pp. 82–94], Page 119, S.J.M. van Eekelen, A. Bezuijen, H.J. Lodder, A.F. van Tol

Please find the download of the articles at:

<http://www.sciencedirect.com/science/journal/02661144>

For IGS members to have FREE access to the G&G journal articles they MUST log in through the IGS website.

Geotextiles and Geomembranes: Best Papers in 2011

The high flow of excellent papers being submitted to *Geotextiles and Geomembrane* continues and G&G again had the highest five year impact journal in Geotechnical Engineering with a five year impact factor of 2.120* and a 2year Impact Factor of 2.036. Following the Editorial Board meeting held in Yokohama in September 2006 it was decided that it would be desirable to recognise some of the best papers published in *Geotextiles and Geomembranes*. We started with Volume 23 and have selected the Best paper in each subsequent year. This year the Editorial Board were charged with selecting what they considered to be the "Best Paper" published in *Geotextiles and Geomembranes* in Volume 29, 2011. Papers were considered for their contribution to the discipline in terms of providing significant new insights and/or of being of high potential impact on the discipline. All Technical Articles, except those co-authored by the Editor, were eligible. The selection of winning papers was decided based on a vote of the Editorial Board members.

Following a rigorous review of the papers I am pleased to announce that the clear winner for the Best Paper for 2011 was:

"Analysis of installation damage tests for LRFD calibration of reinforced soil structures" by Richard J. Bathurst, Bingquan Huang, Tony M. Allen, *Geotextiles and Geomembranes*, 29(3): 323-334.

Three papers were selected for Honourable Mention:

"Analysis and modification of the British Standard BS8006 for the design of piled embankments" by S.J.M. van Eekelen, A. Bezuijen, A.F. van To, *Geotextiles and Geomembranes*, 29(3): 345-359.

"Geomembrane strains from wrinkle deformations" by S. Gudina, R.W.I. Brachman, *Geotextiles and Geomembranes*, 29(2):181-189.

and

"Unsaturated soil-geotextile interface behaviour" by Charbel N. Khoury, Gerald A. Miller, Kianoosh Hatami, *Geotextiles and Geomembranes*, 29(1): 17-28.

as runners-up and hence being judged to be amongst the four best papers published in *Geotextiles and Geomembranes* in 2011. Congratulations to all of the authors for their very significant contribution to the geosynthetics discipline.

*Journal Citation Reports, published by Thomson Reuters, 2011

Reported by

R. Kerry Rowe, Editor

Corporate Membership

Case studies – new approach for Corporate Members

In the last issues of IGS News we published case studies submitted by IGS Corporate Members with a maximum length of a half page. For each issue about 20 corporate members were asked due to their seniority as members in IGS. This round is meanwhile finished. The experience was that it is hardly possible to show a case study within this very small place available. As we still think that case studies are the most useful information for the whole membership of IGS, we plan to start a new round with some more room (that means 1 full page) for each case study. This should allow place for useful information as well as 1 or 2 pictures and a link to further information through the web.

All corporate members are invited to announce a case study at any time. For each issue 3 to 4 case studies are planned to be placed in. If there are more announcements we will place them on a list and will use them on a “first come, first serve” basis. A corporate member may have a second case study published if the list is finished with corporate members not been considered yet. As we know that some of our corporate members are very hard-working on such a type of publication, please be aware that the only possibility to prevent a publication series by one company is to send in your own case study!

With a distribution of more than 3000 samples/downloads of IGS News this is a good promotion of the geosynthetics technique and your company. We would be happy if this chance is used frequently. Let's start at the first issue of IGS News 2013!

*Reported by
Gerhard Bräu, IGS News Editor*

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ABG Limited	United Kingdom	liz@abgltd.com	www.abgltd.com	2001
Ace Geosynthetics Co., Ltd.	Taiwan (R.O.C.)	amie@geoace.com	www.geoace.com	2003
AGRIPOLYANE	France	export@agripolyane.com	www.agripolyane.com	2012
Agro Kunststofftechnik GmbH	Austria	office@agru.at	www.agru.at	1996
Alyaf Industrial Company Ltd	Saudi Arabia	info@alyaf.com	www.alyaf.com	2008
Andex del Norte S.A.	Peru	jesus.cardozo@andex.com.pe	www.andex.com.pe	2011
ANHUI HUIFENG NEW CONSTRUCTION MATERIALS CO.,LTD	China (People's Republic)	whywin@foxmail.com	www.hfgeosynthetics.com	2012
Aquaterra Consultants Ltd.	Hong-Kong, China	ni-gel.wightman@aquaterra.com.hk	www.aquaterra.com.hk	2009
Asahi Geotechnologies Co., Ltd.	Japan	miura.nb@om.asahi-kasei.co.jp	www.asahi-kasei.co.jp	1989
Ashimori Industry Co., Ltd.	Japan	hiroyuki_sakuragi@ashimori.co.jp	www.ashimori.co.jp	2004
Association of RRR Construction System, The	Japan	okamoto@igi.co.jp	www.rrr-sys.gr.jp	1998
Atarfil S.L.	Spain	mgirones@atarfil.com	www.atarfil.com	1999
AXTER COLETANCHE INC.	Canada	bbreul@axtercoletanche.com	www.coletanche.com	2009
Beaulieu Technical Textiles	Belgium	p.desmet@ideal-fibresfabrics.com	www.ideal-group.com	1998
Beijing Geoenviron Engineering and Technology, Inc.	China (People's Republic)	LiuLiqi1960@yahoo.com.cn	www.gnlining.com	2006
Beijing Sinoma Bauchem Technology Co., Ltd.	China (People's Republic)	bauchem@sina.com	www.bauchem.com	2011
Belton Industries, Inc.	USA	gbarker@beltonindustries.com	www.beltonindustries.com	1989

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BMC Gulf Trading & Contracting LLC	United Arab Emirates	info@bmc-gulf.com	www.bmc-gulf.com	2008
Bombay Textile Research Association, The	India	btralibrary@yahoo.co.uk	www.btraindia.com	2009
Bonar Technical Fabrics N.V.	Belgium	geotextiles@bonartf.com	www.bonartf.com	1989
Celesur Sistemas de Impermeabilizacion, S.L.	Spain	calidad-medioambiente@celesur.com	www.celesur.com	2011
Cetco Lining Technologies	USA	ltinfo@cetco.com	www.cetco.com	1992
Cidelsa	Peru	carrod@cidelsa.com	www.cidelsa.com	2010
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Cofra BV	Netherlands, The	j.dijkstra@cofra.nl	www.cofra.nl	1991
Colas S. A.	France	gautier@campus.colas.fr	www.colas.com	1996
Colbond bv.	Netherlands, The	blair.rawes@colbond.com	www.colbond.com	1988
CONCRETE CANVAS	United Kingdom	will.crawford@concretcanvas.co.uk	www.concretcanvas.co.uk	2012
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Coripa S.A.	Argentina	info@coripa.com.ar	www.coripa.com.ar	2008
Dae Han i. m. Co., Ltd.	Korea	daehan@geosko.com	www.geosko.com	1994
DAEYOUN GEOTECH CO., LTD.	Korea	jimypark94@gmail.com	http://dygtex.en.ec21.com	2012
DuPont de Nemours (Luxembourg) SARL	Luxembourg	ro-main.diederich@lux.dupont.com	www.dupont.com	1988
EAST COAST EROSION BLANKETS	USA	diane@eastcoasterosion.com	www.eastcoasterosion.com	2009
Edilfloor SpA	Italy	b.stefani@edilfloor.com	www.edilfloor.com	2002
Euroizol Geosynthetics LLC	Ukraine	anna@euroizol.com		2006
F.L.I. Environmental	Ireland	mflynn@fli.ie	www.fli.ie	2004
FABTECH	Australia	gfairhead@fabtech.com.au	www.fabtech.com.au	2012
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Field Lining Services of Latin America, Inc.	Panama (Republic of Panama)	flsgeo@cableonda.net	http://fieldliningservices.com	1998
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FITI Testing and Research Institute	Korea	hogankim@fiti.re.kr	www.fiti.re.kr	1997
Fontana International GmbH	Austria	g.puehringer@fontana-international.com	www.fontana-international.com	2008
Fritz Landolt AG	Switzerland	Joseph.schittly@landolt.com	www.landolt.com	1988
Garware-Wall Ropes, Ltd.	India	mvoffice@garwareropes.com	www.garwareropes.com	2006
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Geofabrics Ltd.	United Kingdom	gdonald@geofabrics.com	www.geofabrics.com	1995
Geofelt GmbH	Austria	geofelt@geofelt.com		1996
Geomas	Turkey	elifcallan@geomas.com.tr	www.geomas.com.tr	2012
Geoplas Plastic	Turkey	info@geoplas.com.tr	www.geoplas.com.tr	2012
Geoplastextil SAS	Colombia	santia-go.giraldo@plastextil.com.co	www.geoplastextil.com	2011
GEPOLIMEROS SAS	Colombia	geopolimerosltida@yahoo.com	www.geopolimeros.net	2011
Geosinteticos Trical, C.A.	Venezuela	geosinteticos@trical.net	www.trical.net	2007
Geosynthetic Materials Association (GMA)	USA	amaho@ifai.com	www.ifai.com	1988
Geosynthetics Technologies	Saudi Arabia	geogrid@latifia.com		2007

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Co., Ltd.				
Geosystem Co. Ltd.	Japan	m_aoshima@geosystem.co.jp	www.geosystem.co.jp	2000
GEOTECHNICAL SYSTE-MINDO, PT	Indonesia	info@ptgsi.com	www.ptgsi.com	2012
Geotexan	Spain	jaquilar@geotexan.com	www.geotexan.com	2009
Geo-Tipttex Ltd.	Hungary	geotipttex@geotipttex.hu	www.geotipttex.hu	2010
Gidrokor Construction Company Ltd.	Russia	yakovlev@gidrokor.ru	www.gidrokor.ru	2004
Golden Pow Co., Ltd.	Korea	jsshim@goldenpow.com	www.goldenpow.com	2009
Granite Environmental, Inc.	USA	mwilkie@graniteenvironmental.com	www.graniteenvironmental.com	2011
GSE Lining Technology GmbH	Germany	sbaldauf@gseworld.com	www.gseworld.com	2004
GSE Lining Technology, Inc.	USA	bramsey@gseworld.com	www.gseworld.com	1987
H&R ChemPharm (UK) Ltd.	United Kingdom	Michael.Aerts@hur.com	www.hur.com	2012
High Stiffness Polyethylene Pipes Association	Japan	jouji_hinobayashi@daipla.co.jp	www.kotaijyo.jp	2005
Huesker Synthetic GmbH.	Germany	wolfgang.huesker@huesker.de	www.huesker.de	1989
Hui Kwang Corporation	Taiwan (R.O.C.)	johnnie@huikwang.com	www.huikwang.com	2000
Imgeocosta Sas	Colombia	contacto@imgeocosta.com	www.imgeocosta.com	2011
Integrated Geotechnology Institute	Japan	y_tamura@igi.co.jp	www.igi.co.jp	1998
Intermas Nets S.A.	Spain	csanchez@intermas.com	www.intermas.com	2008
Istanbul Teknik Insaat	Turkey	export@istanbulteknik.com	www.istanbulteknik.com	2012
Japan Spunbond - Toray Corp.	Japan	zz-esaki@unitika.co.jp		1989
JetSJ - Geotecnia, LDA	Portugal	apinto@jetsj.pt	www.jetsj.pt	2010
JOFO ZHAOQING WEB-FORMA CO., LTD.	China (People's Republic)	denghong@jofo.com.cn	www.jofo.com.cn	2012
Juta a.s.	Czech Republic	vagnerm@juta.cz	www.juta.cz	1998
Kajima Corporation - Kajima Technical Research Institute	Japan	yt@kajima.com	www.kajima.co.jp	1989
Kaytech Engineered Fabrics	South Africa	garth@kaytech.co.za	www.kaytech.co.za	2008
Kuraray Co., Ltd.	Japan	noriko_Kawasima@kuraray.co.jp	www.kuraray.co.jp	1989
Laborcontrol	Spain	radia@laborcontrol.es	www.laborcontrol.es	2010
Layfield Environmental Systems	Canada	erangel@layfieldgroup.com	www.layfieldgroup.com	2011
MACCAFERRI (Malaysia) SDN BHD	Malaysia	mm@maccaferri-asia.com	www.maccaferri.com.my	2012
Maccaferri de Argentina S.A.	Argentina	info@maccaferri-arg.com.ar	www.maccaferri-arg.com.ar	2010
Maccaferri De Centroamerica	Costa Rica	sramirez@maccaferri.co.cr	www.maccaferri.co.cr	2010
Maccaferri do Brasil Ltda	Brazil	maccaferri@maccaferri.com.br	www.maccaferri.com.br	1998
MACCAFERRI Indonesia	Indonesia	mi@maccaferri.co.id	www.maccaferri.co.id	2012
Maeda Kosen Co. Ltd.	Japan	yokota@mdk.co.jp	www.mdk.co.jp	1992
Manifattura Fontana S.p.A.	Italy	info@drefon.com	www.manifatturafontana.net	2008
MAPEI S.P.A.	Italy	mapei@mapei.it	www.mapei.com	2012
Mattex Geosynthetics	United Arab Emirates	philippe.g@mattex.com	www.mattex.com	2011
Mekamore Co., Ltd	Korea	mekamore@paran.com	www.mekastone.com	2008
Mitsubishi Plastics, Inc.	Japan	akinaga.takuya@md.mpi.co.jp	www.mpi.co.jp	1992
Mitsui Chemicals Industrial	Japan	yoko.akana@mitsui-chem.co.jp	http://jp.mitsuichem.com	1992

Company Name	Country	Contact Email	Website	Year
Products, Inc.				
Nanchang Teamgo New Materials Co.	China (People's Republic)	ncteamgo@126.com	www.ncteamgo.cn	2010
Narvin Gostar Parsian	Iran	info@ngp-co.com		2010
NAUE GmbH & Co. KG	Germany	kvmaubeuge@naue.com	www.naue.com	1988
NewGrids Limited.	United Kingdom	contact@newgrids.com	www.newgrids.com	2004
Obayashi Corporation	Japan	takahashi.shinichi@obayashi.co.jp	www.obayashi.co.jp	1989
Officine Maccaferri S.P.A.	Italy	UTP@maccaferri.com	www.maccaferri.com	1997
OJSC "494 UNR"	Russia	unrmarket@prudon.ru	www.unrhs.com	2003
Okasan Livic Co. Ltd.	Japan	konami@okasanlivic.co.jp	www.okasanlivic.co.jp	1989
Permathene, Ltd.	New Zealand	mc@permathene.com	www.permathene.com	2003
PIETRUCHA	Poland	export@pietrucha.pl	www.pietrucha.pl	2012
Polytex S.A.	Peru	ejarufe@polytex.cl	www.polytex.cl	2010
Prati Armati S.r.l.	Italy	info@pratiarmati.it	www.pratiarmati.it	2011
Presto Products Co-Geosystems	USA	bill.handlos@prestogeo.com	www.prestogeo.com	1996
Propex Inc.	USA	ron.sutton@propexus.com	www.propexus.com	1991
PT MULTIBANGUN RE-KATAMA PATRIA	Indonesia	mrpatria@indo.net.id	www.multibangunpatria.com	2012
PT Tetrasa Geosinindo	Indonesia	office@geosinindo.co.id	www.geosinindo.co.id	2010
Ramalho Comercial Ltda	Brazil	rosana.araujo@ramalhocomercial.com.br	www.ramalho1.com.br/site/	2008
Reinforced Earth Company, The	USA	rbloomfield@reinforcedearth.com	www.reinforcedearth.com	1989
Sageos - CTT Group	Canada	eblond@gcttg.com	www.gcttg.com	2012
Samyang Corporation	Korea	juhwan.ahn@samyang.com	www.samyang.com	2003
Servicios de Ingenieria Geosintetica S.A. (SIGSA)	Costa Rica	geosigsa@ice.co.cr		2008
Seven States Enterprise Co., Ltd.	Taiwan (R.O.C.)	SQUOT@MS33.HINET.NET	www.seven-states.com.tw	2005
Shenzhen Sheng Yi Environmental Co., Ltd.	China (People's Republic)	shengyi@sz-shengyi.com	www.sz-shengyi.com	2002
Siver Une 104	Spain	calidad@siverune104.com	www.siverune104.com	2011
SKZ-German Plastics Center	Germany	h.zanzinger@skz.de	www.skz.de	2012
Solmax International, Inc.	Canada	dberube@solmax.com	www.solmax.com	1997
Sotrafa, S.A.	Spain	construccion@sotrafa.com	www.sotrafa.com	2009
STEKLONiT Management, LLC	Russia	e.krashenin@steklonit.com	www.steklonit.com	2011
STRATA	USA	lpower@geogrid.com	www.geogrid.com	2012
Supertex, Inc.	USA	edward@supertex-inc.com	www.supertex-inc.com	2007
Swiss Association for Geosynthetics SVG	Switzerland	Martin.stolz@bfh.ch	http://www.geotex.ch	1989
Taian Modern Plastic Co., Ltd	China (People's Republic)	info@tmpgeosynthetics.com	www.tamodern.com	2012
Taiyo Kogyo Corporation (SUN)	Japan	MT001304@mb.taiyokogyo.co.jp	www.taiyokogyo.co.jp	1991
TechFab India Industries Ltd.	India	anant@techfabindia.com	www.techfabindia.com	2008
Tecnologia de Materials S. A.	Peru	contactenosperu@tdm.com.pe	www.tdm.com.pe	2010
Teknindo Geosistem Unggul, PT	Indonesia	info@geosistem.co.id	www.geosistem.co.id	2009

Company Name	Country	Contact Email	Website	Year
Tekpro	Russia	info@tekpro.ru	www.tekpro.ru	2008
Tele Textiles AS	Norway	roar.lunde@teletextiles.no	www.teletextiles.com	1995
TeMa Technologies and Materials Srl	Italy	nico-la.busatta@temacorporation.com	www.temacorporation.com	2006
Tenax S.p.A.	Italy	mariangela.motta@tenax.net	www.tenax.net	1991
TenCate Geosynthetics Europe GmbH	Austria	j.gruber@tencate.com	www.tencate.com	1988
TenCate Geosynthetics North America	USA	j.henderson@tencate.com	www.tencate.com	1998
Tenox Corporation	Japan	oota-k@tenox.co.jp	www.tenox.co.jp	2002
Tensar Geosynthetics (China) Ltd.	China (People's Republic)	David@tensar.com.cn	www.tensar.com.cn	2004
Tensar International Corporation	USA	jcavanaugh@tensarcorp.com	www.tensarcorp.com	1989
Tensar International Limited	United Kingdom	ifraser@tensar.co.uk	www.tensar.co.uk	1989
TERAGEOS	France	global@terageos.com	http://terageos.com	2012
Terre Armée Internationale	France	nicolas.freitag@terre-armee.com	www.terre-armee.com	2002
TESSILBRENTA SRL	Italy	antonio.perissinotto@tessilbrenta.com	www.tessilbrenta.it	2012
Texinov	France	jpducol@texinov.fr	www.texinov.fr	2007
TEXOFIB	Saudi Arabia	ctic@cticltd.com	www.texofib.com	2012
Thrace Nonwovens & Geosynthetics	Greece	papagiannis@thraceplastics.gr	www.thraceplastics.gr	2010
Tokyo Printing Ink MFG.Co.Ltd.	Japan	dobokugijyutu@tokyoink.co.jp	www.tokyoink.co.jp	2005
Tokyu Construction Co. Ltd.	Japan	tomita.yuuichi@tokyu-cnst.co.jp	www.tokyu-cnst.co.jp	1989
TRI/Environmental Inc.	USA	sallen@tri-env.com	www.tri-env.com	2008
Uretek	Italy	alberto.pasquetto@uretek.it	www.uretek.it	2012
ViaCon Production LLC	Russia	kasinski@viacon-russia.ru	http://viacon-russia.ru	2012
Viganò Pavitex S.P.A.	Italy	m.resmini@pavitex.com	www.pavitex.com	2006
Yixing Shenzhou Earth Working Material Co., Ltd.	China (People's Republic)	sz.geosynthetics@gmail.com	www.geogrid-cn.com	2011

Notes:

- The corporate members are encouraged to check their entry there!
- Date is earliest year of continuous membership

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- to promote advancement of the state of the art of geotextiles, geomembranes, related products, and associated technologies; and
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