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the International Society for Soil Mechanics and Geotechnical Engineering. The TWGs are not administrative, but purely technical. The topic will be centered on properties and/or functions of geosynthetics (e.g., filtration, reinforcement, durability, barrier etc), including interaction between geosynthetics and with other materials, and/or relating to issues of sustainability (e.g., water vation, mitigation and adaptation strategies for reducing the impacts of climate change). Respective TWGs will be formed based on proposals of IGS members. In the council meeting held in Cape Town, 1st September 2009, a subcommittee chaired by Prof. Dixon, N., U.K., to draft a protocol for the formation, based on my original proposal, was appointed. Mr. Russell, J. and Prof. Otani, J. are the other members of the subcommittee. The first part of the draft prepared by the subcommittee reads the following: TWGs will operate by facilitating communication both between members and with the wider geosynthetics community. This will be achieved via email exchanges, webinars, web forums and through meetings and workshops normally organized to coincide with IGS sponsored conferences, symposia and workshops. It is expected that such meetings will enable wide international participation in TWG activities and it will also increase participation at IGS events, which should be viewed as providing an opportunity for dissemination of TWG outputs. TWGs are encouraged to engage with organizers of international events held under the auspices of the IGS at an early stage, in order to propose and organize technical sessions. Specifically, it is expected that TWGs will be involved with the IGS International and Regional Conferences. In addition, TWGs can propose to organize symposia, workshops or short courses under the auspices of the IGS on the condition that they do not interfere with other events organized under the auspices of the IGS. TWGs operate independently of other IGS Committees. However, TWGs are expected to interact with the Technical Committee in preparation of technical documents, with the Education Committee in preparation of educational activities (e.g. courses), with Regional Activities Committees in organization of technical meetings (e.g. specific sessions in Regional Conferences), and with the Communication Committee in dissemination of outputs … Based on a comprehensive work of the sub-committee, the formation of TWGs will be discussed again in the council meetings to be held in Guarujá, Brazil, in the end of the coming May, on the occasion of 9ICG. I sincerely wish that the formation of the TWGs will be approved in Guarujá and publicized among the IGS members, and then soon after several TWGs will be formed. I believe that, when several active TWGs are established, the IGS becomes more attractive to engineers, researchers and others, who are working and studying on geosynthetics engineering. Then, these TWGs will create a number of new members for the IGS and more participants to coming IGS related conferences.

Fumio Tatsuoka
IGS President

The actual program is available at: www.9icg-brazil2010.info/ingles/programme.asp
Make your reservation at: www.9icg-brazil2010.info/ingles/registration.asp
Book your accommodation at: www.9icg-brazil2010.info/ingles/accommodation.asp

This is the last issue of IGS News in which I write an article as the IGS President. During the last four years, as well as many years before, the IGS has been steadily growing up. Corresponding to the above, the immediate past president, Dr Daniele Cazzuffi, decided to strengthen and reform the activities of IGS. Among the measures to do so, he started holding full-one day meetings of the IGS committees on the occasion of respective IGS council meetings, which actually started at the first council meeting of the last term, which was held in Milano, his hometown, 26 - 28 March 2003 about six months after 7ICG in Nice, France, September 2002. It was a very successful and productive meeting, which would not be possible by communication-means like e-mail and telephone. I still remember that Dr Cazzuffi invited the IGS ofﬁcers at that time to his private house for a wonderful Italian dinner with his family.

On several occasions (i.e., ofﬁcers’ meetings and council meetings) during this term, I proposed to set up a series of “Technical Working Groups (TWGs)” (n.b., the name may be changed to another more relevant one) aiming at activating and encouraging the technical activities by IGS members, in particular young members, in the framework of the IGS. The concept of TWGs is similar to Technical Committees of
The officers of the IGS met in West Palm Beach Florida on the occasion of the opening of GeoFlorida.

A highlight of the meeting was a brief discussion with Jean Louis Briaud, elected President of ISSMGE in 2009, in which mutual goals and opportunities of the societies were explored.

Additional subjects addressed were the schedule of IGS meetings at the 9th ICG in Guarujá, Brazil at the end of May 2010. The IGS meeting schedule is presented below.

Other subjects addressed were the need to review and revise the issues of IGS support to conferences and exhibitions of other organizations active in the geosynthetic and related fields. With the advent of as many as four IGS Regional conferences and the possibility of 31 IGS chapters organizing local and national events, it is necessary to review and improve the meaning and intent of the granting of auspices and or support to the various events and this will be an important task for the new council in the period of 2010 to 2014.

Of course the current election in the IGS was a subject of interest but was limited to a brief review as three of the five officers present are candidates in the election.

Finally the development of a request for proposals for the operation of the IGS Secretariat was addressed and a schedule was adopted. The current draft will be reviewed by the council by 26 March. The Task Force who drafted the RFP will review comments and will publish the final form to the public on 30 April. Proposals will be prepared and submitted by interested parties and must be received by 20 June. The new group of Officers will propose a decision to the new council by 30 June.

Schedule of IGS meetings at 9ICG in Guarujá:
- 22 May 2010 IGS Officers
- 23 May 2010 IGS Council, Council dinner
- 24 May 2010 IGS Reception for Corporate members, Chapter Presidents, Conference Organizers and IGS Past Presidents
- 26 May 2010 IGS General Assembly
- 28 May 2010 IGS Council meeting
- 28 May 2010 IGS Committees
- 29 May 2010 IGS Committees
- 29 May 2010 IGS Council meeting

IGS Awards committee meeting
February 20, 2010, West Palm Beach, Florida, USA

The 2010 IGS Awards Committee met in West Palm Beach on the occasion of GeoFlorida 2010 to review candidate submissions for awards. It has long been the tradition that successful candidates are not announced until the Official Award Ceremony. There were many excellent candidates and
several submissions were selected for presentation of IGS Awards at the IGS General Assembly May 26 in Guarujá, Brazil at the 9th International Conference on Geosynthetics, Related Products and Associated Technologies.

Reported by
Daniele Cazzuffi, IGS Awards Committee Chair

Agenda for the 7th General Assembly of the IGS at 9ICG in Guarujá, Brazil, on Wednesday May 26 at 4 PM

“A general assembly of the IGS shall be held during each International Conference on Geosynthetics, Related Products and Associated Technologies” All IGS members are invited to attend but please note that only IGS members can attend except for persons specifically invited by the IGS Council.

In Guarujá Brazil on Wednesday May 26 at 4 PM the 7th General Assembly of the IGS will be held during the 9th ICG in the year 2010. Members desiring to attend must be fully paid members by May 11, 2010 (15 days prior to the General Assembly). A member in attendance can carry the proxy of no more than five absent members. Proxies must be validated by the Secretariat prior to the General Assembly. Chapters must confirm their membership through the Secretariat through May 11, 2010.

Immediately following the closing of the General Assembly the IGS Awards will be presented.

The tentative agenda of the meeting is as follows:

7th General Assembly of the IGS
Welcome of members of IGS - Quorum (President)
Presentation of the procedure for the General Assembly and appointment of poll tellers (Secretary)
Approval of the minutes of the preceding General Assembly (Secretary) - VOTE
Address and report of the President of IGS
Report of the Secretary of IGS
Report by the Treasurer of IGS - VOTE
Approval of Society’s activities - VOTE

Vote of documents prepared by the Council (e.g., matters arising, amendments to bylaws) (President)
Proposed subscription fee (Treasurer) - VOTE
Appointment of Financial Review Committee (Treasurer) - VOTE
Selection of the date of the International Conference to be held after the next International Conference (President Elect) - VOTE
Selection of the date and location of the next General Assembly (Secretary) - VOTE
Any other business (President)
Introduction of the new officers and council for the period of 2010 to 2014 (President)
Closing remarks (President Elect)

Reported by
Pete Stevenson, IGS Secretary

Membership renewal via IGS webpage

The IGS announces a new feature on the IGS website: the ability to join or renew membership online. The direct link is http://www.geosyntheticssociety.org/application.htm.

This new benefit makes it easy for a new member to join or for a member to renew. The page connects or introduces the member to the chapters and facilitates rapid access to various membership benefits like the official Journals.

Check it out!

Reported by
Pete Stevenson, IGS Secretary

IGS News, Vol. 26, No. 1, March 2010
Geosynthetics in Action – The 1st IGS Photo Contest

Thank you to all of IGS Members who have participated in the 1st Annual IGS Photo Contest. We are thrilled to acknowledge that approximately 140 photos were submitted to the contest. And the quality is really outstanding!

The judging of the photos is underway. The judging is being done electronically by a panel of IGS Members from Asia, Africa, Australia, Europe, South & North America. The photos will be given points in each of 3 categories: the clarity and technical quality of the photo, the photo’s demonstration of “geosynthetics in action” and the aesthetic quality of the photo.

Prize winning photos will be on display at the 9th ICG in a variety of different ways as well as on the IGS Web site. If you were unable to participate this time please don’t file your excellent photos away – the IGS Photo Contest will be a reoccurring event!

Reported by Elizabeth Peggs, IGS Council Member

New IGS Web Site to be Launched at the 9th ICG

Over the course of the last year, the IGS Web Site Task Force has worked to develop a new web site for the IGS. Before working on the actual remodel the Task Force, along with the IGS Council, dedicated a considerable amount of time to discussing and evaluating which web site components would be most beneficial to the IGS Members and the IGS mission. Although the list of goals and objectives was quite lengthy, we established a few broad based goals that we believe will be achieved by the new web site:

A web presence which will promote the IGS as the preeminent international resource for geosynthetics-related information, networking and education

Increased service to all IGS members (individual and corporate)

Increased content delivery

Simple, functional navigation

A communication tool that will aid the IGS Committees, Chapters, Council and Officers

In order to achieve these goals we have changed the face of the web site and the navigation significantly - the web site will work to highlight some of the valuable resources available to both members and non-members. We have added a translation tool the body of the site will now be available in over 40 languages.

We will be working to promote items like the 14 Educational Leaflets available in 7 different languages by making them more accessible. We are adding new types of information like a photo gallery and case histories. News stories will be available both via the IGS News and, where and when appropriate, as individual articles on a dedicated news page in the new site.

IGS Members will have access to new resources when logged into the Members Only segment. We are working to create direct access entry points to both of the IGS Journals from within the IGS Members Only segment. We hope to improve the promotion and awareness of the IGS Chapters through increased representation in various portions of the site. All Chapters are invited to utilize the IGS on-line membership payment system. Chapter Reports and Chapter News will also be available through the IGS web site.

Finally, upon log-in the new web site will recognize volunteers like IGS Council and Committee Members. The system will provide them access to tools like shared documents, calendars and other communication/organization tools which will help them coordinate work efforts and maximize their efficiency.

The new site will be launched in conjunction with the 9th ICG, to be held 23-27 May 2010 in Brazil. All members will receive an email with a formal announcement of the web site's release as well as a username.

Screenshot from the new IGS Web Site
and password to log-in to the site. **It is critically important that IGS Members remember to communicate email address changes with their Chapter Secretary or the IGS Secretary.** The information IGS Members receive as a benefit of their membership is fantastic and increasing steadily. As such, accurate email information is more important than ever. **Please ensure you have access to all of your IGS benefits by updating your email information when it changes!**

We look forward to your comments and feedback when the site has been released. Please know that this web site will continue to evolve with the needs of the IGS Membership and geosynthetics community at large. **Suggestions will always be welcome!**

Reported by
Elizabeth Peggs,
IGS Council Member and IGS Web Site Task Force Chair

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**Conference Reports**

**XXII Italian National Conference on Geosynthetics**

**28 October 2009, Bologna, Italy**

The XXII Italian National Conference on Geosynthetics was held on 28th October 2009 in Bologna. The Conference theme was *Guidelines and design approach for geosynthetics-reinforced soil structures*. The Conference was jointly organized by the Italian Chapter of the IGS (AGI-IGS) and the Bologna Engineers and Architects Association (ASSIABO) with the participation of ANIDIS (National Association of Seismic Engineering), under the auspices of the Bologna University.

More than 150 participants attended to the Conference, which was divided in two different sessions. The first session was chaired by Daniele Cazzuffi (AGI-IGS President and IGS Immediate Past President) and focused on *The design of earth reinforced structures according to the new Italian seismic regulation*. One keynote lecture, one invited lecture and three papers were presented.

The keynote, presented by the IGS President Fumio Tatsuoka, was addressed on the seismic behaviour of geosynthetic-reinforced structures: lessons from recent earthquakes and design approaches. The invited lecture was presented by Giuseppe Lanzo (University of Roma) and focused on the site effects during the L’Aquila earthquake.

The three papers presented covered the topics of the design of reinforced structures under the AGI code of practice and new Italian seismic regulation N.T.C.08.

The second session was chaired by Stefano Aversa (AGI President) and focused on the *Performance based design: numerical and physical modelling*. Also in this case one keynote lecture, one invited lecture and three papers were presented.

The keynote, presented by Michele Maugeri (AGI-IGS Vice President), was addressed to the performed based design of earth reinforced structures, while the invited lecture, presented by Franco Braga (University of Roma) was focused on the evaluation of seismic action according to the new Italian seismic regulation N.T.C.08.

The three papers presented showed some advanced researches on the numerical and physical modelling that can be used for the performed based design of earth reinforced structures in seismic areas.

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

The next Italian National Conference on Geosynthetics will be organised in Bologna on 27th October 2010 and will be dedicated to the use of geosynthetics for the mitigation of natural disasters.

Reported by
Nicola Moraci, AGI-IGS Secretary

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Speakers and organisers of the XXII Italian National Conference on Geosynthetics, including Stefano Aversa (AGI President), Fumio Tatsuoka (IGS President) and Daniele Cazzuffi (AGI-IGS President)
The 22nd edition of the CGT (Conference on Geotechnics in Torino) was held in Torino on the 18th and 19th of November 2009 under the auspices of IGS, ISSMGE and FedIGS: the conference subject was “Risk mitigation by soil improvement and reinforcement”.

The typology of the structures to be reinforced and their interaction with the soil in the surroundings had been the main focus of the lectures in the programme: with this aspect in the background, also the most up-to-date technologies for soil improvement and reinforcement were illustrated.

The conference was opened with the addresses by Daniele Cazzuffi (Immediate Past President of IGS), William Van Impe (President of FedIGS) and Stefano Aversa (President of AGI, Italian Geotechnical Society).

The opening lecture was made by Antonio Gens, from Universitat Politècnica de Catalunya (Barcelona, Spain), concerning the “Fundamentals of Soil Behaviour”, a short lesson on the generalised behaviour of soils under nonisothermal and chemically varying conditions that underlay the performance of a number of ground improvement techniques.

The first session, covering the key subject of structures and infrastructures and chaired by Michele Jamolkowski, included the presentations of R. Mair (University of Cambridge) and G. Viggiani (Università degli Studi di Roma Tor Vergata), concerning the “Reduction and Controls of Surface Settlements Induced by Shallow and Deep Excavations”; S. Foti and M. Manassero (Politecnico di Torino), titled “Evaluation of the experiences in Underwater Dam Construction on Soft Soils”; and, finally, A. Desideri and S. Rampello (Università degli Studi di Roma La Sapienza), regarding the “Stabilization of Natural Slopes by Drainage Systems”.

The second session, referring to territory and environmental issues and chaired by Giovanni Barla, included the presentations of M. Manassero, A. Dominijanni and S. Puma (Politecnico di Torino), concerning the “Remediation and Rehabilitation of Waste Landfills”; W. Van Impe (Ghent University), titled “Design of Earth-Reinforced Embankments Under Cyclic/Dynamic Loading”.

The second session, referring to territory and environmental issues and chaired by Giovanni Barla, included the presentations of M. Manassero, A. Dominjanni and S. Puma (Politecnico di Torino), concerning the “Remediation and Rehabilitation of Waste Landfills”; W. Van Impe (Ghent University), titled “Evaluation of the experiences in Underwater Dam Construction on Soft Soils”; and, finally, A. Desideri and S. Rampello (Università degli Studi di Roma La Sapienza), regarding the “Stabilization of Natural Slopes by Drainage Systems”.

The closing address, “Recent Developments in Technology and Construction Practice”, presented by D. Vanni and M. Siepi (Trevi Group) and the special lecture, “The MOSE Project – Safeguarding Venice by Improvement and Reinforcement of Mobile Barrier Foundation Soil”, subjected by M.T. Brotto (Consorzio Venezia Nuova) and M. Jamolkowski (Politecnico di Torino), ended the event. After that the round table on “Codes and Regulations” took place, with chairman A. Burghignoli (Università degli Studi di Roma La Sapienza) and panelists: S. Aversa (Università degli Studi di Napoli “Parthenope”), L. Callisto (Università degli Studi di Roma La Sapienza), D. Cazzuffi (CESI Spa Milano), M. Maugeri (Università degli Studi di Catania) and M. Zanetti (Politecnico di Torino).

Moreover CGT 2009 presented a broad perspective on new technical and scientific developments, with the advantage of combining geotechnical and geoenvironmental engineering analysis, modeling and design. The conference had 200 participants from several private, public institutions and international universities.

Reported by
Mario Manassero, IGS member
The International Symposium on Geotechnical Engineering, Ground Improvement, and Geosynthetics for Sustainable Mitigation and Adaptation to Climate Change including Global Warming was successfully held on 3 to 4 December 2009 at Sofitel Centara Grand Bangkok Hotel. This event combined the topics in the fields of Geotechnical Engineering and Geosynthetics Engineering. Details of the topics include: Design and Applications of Geosynthetics, Soil Improvement, New Challenges in Dam Engineering, Slope and Embankment Reinforcements, Control of Riverbank and Coastal Erosions, Landslide Mitigation, Rehabilitation of Climate-Damaging Gases, Effects of Climate Change on Geohazards, etc. The symposium was officially opened by Dr. Nitin Afzulpurkar, Dean, School of Engineering Technology, Asian Institute of Technology. John Cowland and Mike Sadlier, Treasurer and Council Member of IGS also participated in the Opening Ceremonies.

The two-day symposium has an impressive line up of Keynote Speakers including Prof. Pedro Pinto of the University of Coimbra, Portugal and Prof. Madhira Madhav of JNT University, India, respectively, Past President and VP for Asia of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE). Other Keynote Speakers include Prof. G. Heerten of NAUE GMBH Germany, Prof. H.Y. Jeon of Korea, Prof K. Yasuhara and Prof. J.C. Chai of Japan, Prof. B. Indraratna of Australia, Prof. J. Chu of Singapore and Dr. A. Siripong of Thailand. The participants include more than 150 speakers, session chairs, delegates, exhibitors, and sponsors from many countries including Australia, China, Germany, India, Iran, Japan, Korea, Malaysia, Philippines, Singapore, Taiwan, Vietnam, and of course Thailand. The Symposium Proceedings amounted to 435 pages comprising more than 43 papers. Furthermore, there were 15 Exhibitions Booths and 20 Sponsors in this event.

This Symposium served as a forum for the geotechnical profession as a whole, and, in particular, those who are involved in disaster prevention, mitigation, rehabilitation, and construction works affected by climate change due to global warming. In addition, this Symposium encouraged research activities as well as promoted environmental preservation, not only in other countries but also in Thailand, where geosynthetics are already used for reinforcements of soil slopes, separation and drainage, lining for waste containment, and erosion control along Chao Phraya River Banks as well as the shorelines of the Gulf of Thailand. A CD containing the proceedings of the symposium is available at US$50 per copy inclusive of mailing cost.

Prior to the International Symposium, a one-day Short Course on Geosynthetics Applications and PLAXIS Numerical Simulations was also successfully held on 2 December 2009 at the Sofitel Centara Grand Bangkok Hotel. The Resource Speakers for the Geosynthetics Applications included Chris Lawson, John Cowland, Mike Sadlier, HY Jeon, DT Bergado and M Dechasakulsom. The Resource Speakers for the PLAXIS Numerical Applications included W. Cheang, S. Youwai, S. Soralump, YP Lai, N Phienwej and DT Bergado.

Reported by Dennes T. Bergado, Chair of Organizing Committee and President of IGS-Thai Chapter

Opening of the symposium by N. Afzulpurkar, AIT

Panel of the short course on geosynthetics applications and numerical simulations: D. Bergado, L. Poon, Ch. Lawson, M. Sadlier, H. Jeon
On January 28th, 2010, the 9th Saxon Construction Textiles Symposium “BAUTEX 2010” took place in Chemnitz. The number of arrangements, organized in an interval of 2 years, is realized by the Saxon Textile Research Institute e.V., the University of Applied Sciences Dresden, the Construction Industry Federation Saxony/Saxony-Anhalt e.V. and the North-East German Textiles and Clothing Industry Association e.V. The conference language is German.

The “BAUTEX” is well established in the industrial sector and started 1994. The conference gives the possibility for the exchange of experience of producers of technical textiles, planning offices, departments, authorities and the building industry. The goal of the symposiums is the presentation of new guidelines and application / calculation examples as well as research results for the “construction with geosynthetics”.

At the 9th symposium the organizers were able to welcome over 220 participants as well as 28 exhibitors from Germany and Austria representing users and producers of geosynthetics and testing facilities. Nearly all geosynthetic producers of Germany took part in the exhibition with their products.

The symposium comprised 14 lectures dealing with quality management, long time behaviour of geosynthetics, supporting structures as well as the bond behaviour. In part “quality management”, the lectures explained regulations about the CE-mark as well as national (German) regulations of the quality management of geosynthetics.

In the session “long time behaviour” investigations about the resistance in water, rail-way and road constructions were presented. The last lecture in this part showed the measurement of the monitoring of earthworks.

In the part “supporting structures” first experiences with the “EBGEO 2009” and its transfer to practice were explained. The following lecturers dealt with the construction of noise barriers and the bearing capacity of geosynthetic-reinforced constructions.

Investigations and new knowledge about the bond behaviour geosynthetic – earth completed the program in the last part. The last lecture presented methods for the slope stabilization with fibre-reinforced earth.

The handouts of the conference contain the short version of the lectures. The long version of the lectures and many literature proofs about this subject are available on the conference-CD, produced by the FIZ-Technik-Inform GmbH. The conference materials are only available in German language.

The 10th Saxon Construction Textiles Symposium „BAUTEX 2012“ was already announced by the organizers for January 26th, 2012. For more information see www.geokunststoffe.com

Reported by
Matthias Mägel, IGS-member

The 3rd Portuguese Seminar on Geosynthetics (3SPGeossinteticos) was held at the University of Coimbra, Portugal, on 19 - 20 November 2009. This event was organised by the Portuguese Chapter of the IGS (IGS-Portugal), the Portuguese Geotechnical Society (SPG) and University of Coimbra (FCTUC).

The program of the Seminar was divided into two parts. The morning of the first day was dedicated to deliver a short course on Design of reinforced structures (Maria de Lurdes Lopes - FEUP, Porto and Margarida Pinho-Lopes - UA, Aveiro). The afternoon of 19th and the following day was devoted to the Technical Sessions that includes 4 Keynotes:

Outstanding issues regarding the use of geosynthetics in landfills (Nathalie Touze-Foltz, Cemagref, Paris),
In addition, there were 21 oral presentations, on the following main topics: Environment, Dams, Fluvial and Coastal Erosion, Roads and Railways.

The seminar was attended by almost 70 participants, 12 of them being students. Six companies took part in the technical exhibition: BBF/NAUE (Silver Sponsor), IPETEX (Silver Sponsor), AXTER, Crispin RC Pinto, HUESKER and Guerner & Irmãos. CENORGEO was also a sponsor (Bronze).

Proceedings include 33 papers and were published as a book and as a CD.

Reported by Madalena Barroso, IGS News Correspondent from Portuguese IGS Chapter

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**Announcements of Conferences of IGS**

**9th International Conference on Geosynthetics – 9ICG**

Guarujá, Brazil, 23 - 27 May 2010

It is now only two months to the conference. Time is running and our meeting is approaching very fast.

The organizing is now in a very advanced situation. The technical program is completely defined. The social program as well.

In total, 350 papers are being published on the 9ICG proceedings. Exactly the original target. Of course it was a coincidence, but for sure our first goal. 173 papers have been selected to be orally presented around 28 technical sessions. The authors of the other papers were invited to participate on a big poster session available during the entire period of the conference in a privileged area.

The technical program also counts with 11 training lectures and with 12 discussion sessions. All of them will be led by important experts on different themes regarding geosynthetic products and applications. A wide range of subjects of interest is covered with those sessions.

A special mention to the Special Lectures may be done. Several lectures, each of them proposed for a 1 hour session on an auditorium for more than 1.000 attendees is programmed for the 9ICG. There will be 7 of them, every one dealing with an important and specific subject. The team of lecturers on the 9ICG will be not less than a top level one.

The IGS Awards, special meetings, IGS General Assembly are also included on the program. On the social side, cultural activities and folkloric presentations as well as fellowship moments are granted. The traditions Conference Dinner and Football Match are fully organized and will be certainly well received by everybody.

The support from companies and institutions has been great during the whole time of the event preparation. Several quotes of sponsorship were bought by a big number of companies. The exhibition hall, with 75 booths, is completely full. The
technical exhibition promises to be very nice and fruitful. Many activities are foreseen for this area in different moments along the event.

At present, we are pretty convinced that the geosynthetic community, the engineering community indeed, is really involved with the proposal of this event. A great number of registrations, including Brazilians and foreigners, have already arrived. Several people are coming from all around the world, many of them bringing familiars. Many attendees are programming their trip to start earlier or to finish later than the conference... being serious, making tourism in Brazil is really a very good option.

So, even at two months before the conference starts, the group of organizers, IGS Brasil and ABMS, is very happy with the result of this project. Four years ago Brazil has invited the geosynthetic community to participate on a challenging project of ours. This invitation was very well received and all the community has attended to that. Many thanks to everyone that has helped us along the way until now.

Look forward to see you in Guarujá.

Reported by Delma Vidal, 9ICG General Secretariat

secretariat@9icg-brazil2010.info

9ICG – VENUE

The 9th International Conference on Geosynthetics of the IGS (9ICG), the primary international geosynthetics event, held every four years, will be held for the first time in the Southern Hemisphere from 23 to 27 May 2010 in the city of Guarujá, which is about 90 km from São Paulo, the largest city in Brazil.

The city of Guarujá, located on the island of Santo Amaro, was founded in September 1893 as a village. In 1931 it was joined to the municipality of Santos and remained as such until 1934, when Estância Balneária de Guarujá (Seaside Resort of Guarujá) was created.

Known as the “Pearl of the Atlantic”, Guarujá occupies an area of 138 square kilometers and has a permanent population of around 300 thousand inhabitants. In the high summer season, the population is over one million people.

With tourism as one of its main economic activities, the city is famous for its natural beauty, and its beaches are among the most beautiful beaches in Brazil. The service sector and the chemical industry are the city’s main economic sector.

The Port of Santos, the largest in Latin America, which annually handles more than 60 million tons of various cargoes, has one of its banks on the island of Santo Amaro, contributing to the wealth of Guarujá.

Additional Information: Agência de Convenções e Turismo do Guarujá: http://www.gcva.com.br

9ICG – SPONSORS

Eight (8) companies are sponsoring the 9ICG. All of them are taking place on the Technical exhibition and each of them is offering a technical presentation on the Meeting the Industry session.

The sponsors of the 9ICG are:

Bidim (booths 47 and 48)
Cipatex (booths 35 and 36)
Engepol (booths 50 and 51)
Huesker (booths 65 and 66)
Maccamer (booths 42 and 49)
Ober (booths 69 and 70)
Santa Fé (booths 02 and 03)
Tencate (booths 34 and 57)

9ICG – SOCIAL PROGRAMME

The traditional Conference Dinner is scheduled for May 26, Wednesday, at 7:30 pm. The location will be announced shortly, but you can expect a very pleasant and comfortable place. The participants will have the opportunity to socialize, dance, and taste some of the plentiful and delicious Brazilian cuisine. The Dinner is a paid activity with limited tables. The cost of the dinner is R$ 120.00 per person (20% discount until 22/Nov/2009). This event is not exclusive to those registered for the conference. There will be free transportation from and to the official hotels of the event to the place holding the dinner event at scheduled times.

The traditional football game is scheduled for May 25, Tuesday, at 7:00 pm. The idea is, as in previous years, to promote a challenge between Hispanics/Brazilians and Anglo-Saxons.

The game of football is a free-of-charge activity and all are invited to participate as players or as spectators. After the game there will be a friendly gathering of the participants.

Along the schedule, the Organizing Committee will offer to the 9ICG attendees and their companions several other social activities. A Welcome reception and a Happy Hour meeting on the exhibition hall, as well as several cultural activities will guarantee a good environment for the event along the whole week.
All of them will take place on the geosynthetics. Their personal experiences will be very fruitful by since they will be a last 1 hours each and promise to be for the ICG. Those sessions will Special Lectures are programmed at:

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>12:00</td>
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Technical Sessions:
- Geosynthetics in Landfills
- Geosynthetics in Transportation
- Geosynthetics in Environmental and Hydraulic Applications
- New Techniques for Soft Soil Stabilization Using Geosynthetics
- Geosynthetics for Oil Spill Containment
- Geosynthetics for Oil Spill Containment
- Geosynthetics for Oil Spill Containment
- Geosynthetics for Oil Spill Containment

9ICG Technical Programme (issue 10/03/2010 – subject to minor changes)

9ICG – SPECIAL LECTURES AND SESSIONS

Three Keynote Lectures and four Special Lectures are programmed for the 9ICG. Those sessions will last 1 hours each and promise to be very fruitful by since they will be a great opportunity for all 9ICG attendees to get, from very recognized professionals of the technical community, their personal experiences of years and years of dedication to some the most relevant topics on geosynthetics.

All of them will take place on the main auditorium and no other parallel activity will occur at the same time. See on the Technical Programme chart the schedule of the presentations and below who the speakers are:

Welcome Lecture:

**S.S. Sandroni**

Brazilian research and practice with geosynthetics

(S.S. Sandroni, L.G. de Mello, R.C. Gomes & O.M. Vilar)

Prestigious Lecture 1:

**J.P. Giroud**

The 2008 Terzaghi Lecture – Development of criteria for geotextile and granular filters

(J.P. Giroud)
Prestigious Lecture 2:

The 2010 Terzaghi Lecture – Geosynthetic Reinforced Soil: From Experimental to Familiar (Robert D. Holtz)

Robert D. Holtz (USA)

Giroud Lecture:

Geosynthetics application for the mitigation of natural disasters (H. Brandl)

H. Brandl (Austria)

Keynote Lecture 1:

Geosynthetics in Barrier Systems for Dams (D. Cazzuffi, J.P. Giroud, A. Scuero & G. Vaschetti)

D. Cazzuffi (Italy)

Keynote Lecture 2:

Geosynthetics in Pavement Reinforcement Applications (S. W. Perkins, B.R. Christopher, N. Thom, G. Montestrueque, L. Korkiala-Tanttu & A. Watn)

S. W. Perkins (USA)

Keynote Lecture 3:

Improving the performance of mining infrastructure through the judicious use of geosynthetics (A. Fourie, A. Bouazza, J. Lupo & P. Abrão)

A. Fourie (Australia)

Twelve (12) discussion sessions are programmed. Discussion sessions will start with up to 20 minutes presentations by the Theme Speakers, followed by discussions and questions from the audience. The Session Discussion Leader will encourage the audience participation. Discussion Session Theme Speakers and Discussion Leaders are leading experts in the themes of the sessions. The following speakers and discussion leaders are confirmed on the Discussion sessions: Malek Bouazza (Australia), Mauricio Ossa (Chile), Sérgio Reyes (Argentina), Richard J. Bathurst (Canada), Mauricio Ehrlich (Brazil), Chungsik Yoo (Korea), Jean-Pierre Gourc (France), Takashi Katsumi (Japan), Maria Eugênia Boscov (Brazil), Michael Heibaum (Germany), Eun C. Shin (Korea), German Vivar (Peru), Neil Dixon (UK), Anna Laura Nunes (Brazil), Maria L. Lopes (Portugal), R. Jonathan Fannin (Canada), Nicola Moraci (Italy), Garth M. James (South Africa), Dennes Bergado (Thailand), Colin Jones (UK), Jun Otani (Japan), Benedito Bueno (Brazil), Jochen Müller-Rochholz (Germany), H. Jeon (Korea), R. Kerry Rowe (Canada), Nathalie Touze-Foltz (France), Maria G. Gardoni (Brazil), Georg Heerlen (Germany), Chris Lawson (Malaysia), Delma Vidal (Brazil), Arnstein Watn (Norway), Jorge G. Zornberg (USA), Flávio Montez (Brazil), Gerhard Bräu (Germany), Barry Christopher (USA), Steve Corbet (UK), Chris Jenner (UK), Fumio Tatsuoka (Japan), Steve Corbet (UK).

Eleven (11) training lectures make part of the technical program of the 9ICG. The aim is to allow for attendees to get in contact with most of the specialist in specific topics and have the opportunity to learn and get some information about definitions and concepts, design methodologies, relevant aspects, installation procedures among others, in regarding specific themes. Training lectures deals with several important themes on Geosynthetics and every one will be leaded by one recognized name on the subject. Every training lecture will last 1:30 and the program is informed below. The following speakers are confirmed on the training sessions: Michele Maugeri, Richard Thiel, Chris Lawson, Ian Peggs, Neil Dixon, J.P. Giroud, Sam Allen, Russel Jones, Sean Currie, Jiro Kuwano, Jun Otani.

9ICG – SHORT COURSES

Five 3-hour Short Courses will be offered on Sunday May 23. Some of the most recognized specialists on each subject were selected to present their experience and the basic concepts on important applications related to geosynthetics. Participation in these courses will be by specific registration due to the limited number of places. The following short courses will be delivered:

Geosynthetics in Dams (Joaquim Pimenta)
Geosynthetic Reinforced Walls (Robert D. Holtz & R. Jonathan Fannin)
Geosynthetics in Pavements (Jeb Tingle)
Geosynthetics in Mining (Richard Thiel)
Geosynthetics in Landfills (Sam Allen & Patrick Pierson)
Announcements of Conferences under the Auspices of IGS

New Techniques for Design and Construction in Soft Clays
Guarujá, Brazil, 22 and 23 May 2010

The Symposium New Techniques for Design and Construction in Soft Clays will be held from 22 to 23 May 2010, in the city of Guarujá (about 90 km from São Paulo), Brazil, just before the 9th ICG.

More than 200 participants are expected in the event. Twenty eight speakers from thirteen countries will present their works in four sessions.

The event is organized by Brazilian Society of Soil Mechanics and Geotechnical Engineering (ABMS) and Brazilian Association of Geosynthetics (IGS Brasil) under auspices of International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and International Geosynthetic Society (IGS).

The symposium will bring together researchers, designers, consultants, engineers, contractors, teachers and students aiming to present and to discuss the most recent developments, improvements and new technologies for design and construction in soft clays including geosynthetics.

More information may be found in http://www.geotec.coppe.ufrj.br/ssc2009/

Registration is available at the website.
The 3rd International Symposium on Geosynthetic Clay Liners will be held at the Fortress Marienberg in Würzburg, Germany from 15 till 16 September 2010.

The Symposium will include oral and poster presentations on the topics mentioned below. Abstract and papers for that presentations are invited.

GBR-C 2k10 will be organised by SKZ and will be held under the auspices of the IGS. The Scientific Committee is formed by Robert M. Koerner, P.E. (USA), Nathalie Touze-Foltz (France), Helmut Zanzinger (Germany).

**Symposium Themes**

The Symposium will deal with the following topics:
- Application / case studies
- Landfills
- Canals
- Reservoirs / Dams
- Transportation Infrastructure
- Durability / Lifetime
- Performance
- Cation exchange
- Desiccation
- Experience from excavation
- Regulations / Approvals

**Language**

English is the official language of the conference

For more information
E-mail: gbr-c2k10@skz.de

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The Indian Geotechnical Society (IGS) will host the 6th International Congress on Environmental Geotechnics (6ICEG) at New Delhi during November 8-12, 2010 on behalf of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE). Over 400 delegates, including 250 from abroad, will gather to discuss latest developments.

The congress is being organized by an Organizing Committee guided by a Conference Advisory Committee as well as TC5 (Technical Committee on Environmental Geotechnics) of ISSMGE and a National Advisory Committee of IGS. It will be held under the auspices of the IGS.

**Topics**

The theme of the congress is: Environmental Geotechnics for Sustainable Development.

The congress will deal with the following topics:
- MSW and Hazardous Waste Landfills
- Slurry Ponds
- Contaminated Land, Groundwater and Abandoned Landfills
- Geosynthetics and New Materials
- Sustainability, Professional Practice and Education
- Geohazards, Disaster Mitigation and Management
- Testing, Monitoring and Performance Evaluation
- Physical and Numerical Modelling

**Plenary Lectures**

The actual program shows the following keynote and plenary lectures with geosynthetic background:
- Malek Bouazza, Monash University, Australia
- Geosynthetics in mining applications
- Kerry Rowe, Queen's University, Canada
- Factors affecting the clogging of leachate collection systems in MSW landfills

Jean-Pierre Gourc, Domaine Universitaire, France
- The bio-hydro-mechanical behavior of MSW (Municipal Solid Waste) and the improvement of landfill environmental sustainability
- Mario Manassero, Politecnico di Torino, Italy
- Coupled Modelling of Swelling Properties and Electrolytes Transport through Geosynthetic Clay Liners

**Exhibition**

An exhibition of new equipment, new instruments, new materials, geosynthetics, engineering software, technical books, designers, consultants, contractors, and research organizations will be arranged at the congress venue.

For more information
Email: gicegdelhi@gmail.com
Third Year of Geosynthetic Institute (GSI) Fellowships
Request for proposals

The Geosynthetic Institute (GSI) is delighted to announce our third annual worldwide call for requests-for-proposals (RFPs) focusing on “innovative” geosynthetics research and development projects. This will be the Third Class of awardees, the first two being in 2008 and 2009. There will be multiple awards made, each for $10,000 per year, and they are renewable, pending an annual written report, to a total amount of $20,000 per student. It is important to note that students must have completed their candidacy examinations leading to a doctoral degree in engineering or science. The proposals must be submitted in the following four page format (with no exceptions).

Page 1  Letter of recommendation from student’s department head or advisor
Page 2  Title and detailed abstract
Page 3  Student’s resume
Page 4  Documentation of completed candidacy examination

The RFPs for the 2010-2011 academic years must be submitted to both of the undersigned by e-mail by June 15, 2010 and awards will be announced on, or before, August 1, 2010. Review of the proposals is by the nine-person Board of Directors of GSI. For further information on the Institute and this particular program, visit us at the following site: www.geosynthetic-institute.org and click on “GSI Fellowships and Projects”.

Reported by Robert M. Koerner and Jamie R. Koerner, IGS members

Call-for-Papers: GRI-24 Conference on “Enhancing Sustainability Using Geosynthetics”

The Geosynthetic Institute will host its 24th conference in Dallas, Texas in March, 2011. It will be embedded into the ASCE Geolnstitute’s three-day conference titled GeoFrontiers 2011. The title of the GRI-24 Conference will be the following: “Enhancing Sustainability Using Geosynthetics”

While the papers themselves must be geosynthetics-related, the topic should revolve around some aspects of sustainability. For example, comparing carbon dioxide footprints and financial costs of alternative options (geosynthetics versus conventional) are ideal. Other variations regarding sustainability will also be considered.

If you, or a colleague, have a title and brief abstract to be considered please send it to us by May 31, 2010.

Reported by Robert M. Koerner (robert.koerner@coe.drexel.edu) and George R. Koerner (gkoerner@dca.net), IGS members

Water, Environment and Geosynthetics: a technical day in France

On the 4th of March 2010, in Clermont-Ferrand, following the general assembly of CFG that was held on the day before, a technical day was organized by LRPC Clermont-Ferrand, with the support of Polytech Clermont-Ferrand and Cemagref, under the auspices of CFG.

The objective of this event was to inform people from areas located in the Center of France about the use of geosynthetics for environmental protection. The choice of Clermont-Ferrand was linked to the fact that no previous event had been previously organized by CFG in this area of France where geosynthetics are relatively rarely used.

The morning was dedicated to presentations of geotextiles and related products, geomembranes and GCLs and their applications. Then standardization and certification of geosynthetics were presented.

The morning sessions were concluded by a presentation dedicated to the evaluation of carbon emissions related to production and use of geosynthetics as compared to the use of natural materials. The discussion was based on the work carried out in a working group of CFG aiming at performing this evaluation.
The two afternoon sessions were first dedicated to a Keynote Lecture presented by Thierry Gisbert on the role of geosynthetics in environmental protection. Then six case studies were presented regarding the use of geosynthetics for environmental protection which was the topic of the day.

150 people attended the day, which made it a real success.

Between the various sessions, attendees could also meet with 20 exhibitors in the exhibition area. This is where an aperitif was offered by ASQUAL to celebrate the 20 years of the certification of geotextiles in France.

Such technical days are organized on a yearly basis and complement the national conference on Geosynthetics “Rencontres Géosynthétiques” organized every two years and which will take place next in Tours in 2011.

The whole event was very much appreciated by attendees and exhibitors, as much for the quality of the technical presentations as for the quality of the organization.

View of the attendees in the exhibition hall during a coffee break

Reported by Nathalie Touze-Foltz, IGS News Correspondent for French IGS Chapter

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**List of IGS Chapters**

including the year of foundation and their Chairpersons

<table>
<thead>
<tr>
<th>Country</th>
<th>Chapter Name</th>
<th>Year of Foundation</th>
<th>Chairperson</th>
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<tbody>
<tr>
<td>Argentina</td>
<td>Argentinean Chapter (2009)</td>
<td>2009</td>
<td>Prof. Sergio Reyes, <a href="mailto:sreyes@reyesassoc.com.ar">sreyes@reyesassoc.com.ar</a></td>
</tr>
<tr>
<td>Australia and New Zealand</td>
<td>Australasian Chapter (2002)</td>
<td>2002</td>
<td>Mr. Mike Sadlier <a href="mailto:sadlier@attglobal.net">sadlier@attglobal.net</a></td>
</tr>
<tr>
<td>Belgium</td>
<td>Belgian Chapter (2001)</td>
<td>2001</td>
<td>Frans De Meerleer, <a href="mailto:frans.texien@skynet.be">frans.texien@skynet.be</a></td>
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<tr>
<td>Brazil</td>
<td>Brazilian Chapter (1997)</td>
<td>1997</td>
<td>Prof. Mauricio Ehrlich <a href="mailto:igsbrasil@igsbrasil.org.br">igsbrasil@igsbrasil.org.br</a></td>
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<td>Chile</td>
<td>Chilean Chapter (2006)</td>
<td>2006</td>
<td>Mr. Mauricio Ossa, <a href="mailto:mossa@igs-chile.org">mossa@igs-chile.org</a> <a href="http://igs-chile.org/index.html">http://igs-chile.org/index.html</a></td>
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<tr>
<td>Czech Republic</td>
<td>Czech Chapter (2003)</td>
<td>2003</td>
<td>Mr. Petr Hubik <a href="mailto:igs@igs.cz">igs@igs.cz</a> <a href="http://www.igs.cz">www.igs.cz</a></td>
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<tr>
<td>Germany</td>
<td>German Chapter (1993)</td>
<td>1993</td>
<td>Dr.-Ing. Martin Ziegler <a href="mailto:service@dgdgt.de">service@dgdgt.de</a> <a href="http://www.qb.etum.de/fachsektion/index.htm">www.qb.etum.de/fachsektion/index.htm</a></td>
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<td>Greece</td>
<td>Greek Chapter (2005)</td>
<td>2005</td>
<td>Mr. Dimitrios K. Atmatzidis <a href="mailto:dac@upatras.gr">dac@upatras.gr</a></td>
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<tr>
<td>India</td>
<td>Indian Chapter (1988)</td>
<td>1988</td>
<td>Dr. G.V. Rao <a href="mailto:cbip@cbip.org">cbip@cbip.org</a> <a href="http://www.cbip.org">www.cbip.org</a></td>
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<tr>
<td>Indonesia</td>
<td>INA-IGS, the Indonesian Chapter (1992)</td>
<td>1992</td>
<td>Mr. Gouw Tjie Liong <a href="mailto:ina_igs@binus.ac.id">ina_igs@binus.ac.id</a></td>
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<tr>
<td>Italy</td>
<td>AGI-IGS, the Italian Chapter (1992)</td>
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<td>Dr. Ing. Daniele Cazzuffi <a href="mailto:agroma@iol.it">agroma@iol.it</a> <a href="http://www.associazionegeotecnica.it/~agi/">www.associazionegeotecnica.it/~agi/</a></td>
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<td>Japan</td>
<td>Japanese Chapter (1985)</td>
<td>1985</td>
<td>Hiroshi Miki <a href="mailto:secret@jcigs.or.jp">secret@jcigs.or.jp</a> <a href="http://www.sccmc.nii.ac.jp/jcigs/">www.sccmc.nii.ac.jp/jcigs/</a></td>
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<td>Korea</td>
<td>KC-IGS, The Korean Chapter (1993)</td>
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<td>Prof. Eun-Chul Shin <a href="mailto:kcass-adm@kcass.or.kr">kcass-adm@kcass.or.kr</a> <a href="http://www.kcass.or.kr">www.kcass.or.kr</a></td>
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<td>Giovanni Belleri <a href="mailto:Giovanni.belleri@maccameri.com.mx">Giovanni.belleri@maccameri.com.mx</a></td>
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<td>The Netherlands</td>
<td>Netherlands Chapter (1992)</td>
<td>1992</td>
<td>Dr. Ir. A. H. de Bondt <a href="mailto:mail@ngo.nl">mail@ngo.nl</a> <a href="http://www.ngo.nl">www.ngo.nl</a></td>
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<tr>
<td>North America</td>
<td>North American Geosynthetics Society (NAGS) (Canada, USA) (1986)</td>
<td>1986</td>
<td>Dr. David Elton <a href="mailto:NagsDirector@aol.com">NagsDirector@aol.com</a> <a href="http://www.nags-igs.org">www.nags-igs.org</a></td>
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<td>Norway</td>
<td>Norwegian Chapter (2008)</td>
<td>2008</td>
<td>Arnstein Watn <a href="mailto:Arnstein.watn@sintef.no">Arnstein.watn@sintef.no</a></td>
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<td>Peru</td>
<td>Peruvian Chapter (2001)</td>
<td>2001</td>
<td>Miguel De La Torre <a href="mailto:gerencia@geotextil.org.com">gerencia@geotextil.org.com</a> <a href="http://www.igsperu.org">www.igsperu.org</a></td>
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<tr>
<td>Philippines</td>
<td>Philippine Chapter (2007)</td>
<td>2007</td>
<td>Engr. Emil Morales <a href="mailto:emmorales@gmail.com">emmorales@gmail.com</a> or <a href="mailto:igsPhilippines@yahoo.com">igsPhilippines@yahoo.com</a> <a href="http://www.igsphilippines.com">www.igsphilippines.com</a></td>
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<tr>
<td>Poland</td>
<td>Polish Chapter (2008)</td>
<td>2008</td>
<td>Adam Bolt <a href="mailto:abolt@pg.gda.pl">abolt@pg.gda.pl</a></td>
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<td>Portugal</td>
<td>Portuguese Chapter (2003)</td>
<td>2003</td>
<td>Maria de Lurdes Lopes <a href="mailto:Lcosta@fe.up.pt">Lcosta@fe.up.pt</a> <a href="http://www.spgeotecnia.pt">www.spgeotecnia.pt</a></td>
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<tr>
<td>Romania</td>
<td>Romanian Chapter (1996)</td>
<td>1996</td>
<td>Dr. Valentin Feodorov <a href="mailto:adioli@itch.ro">adioli@itch.ro</a>@mail.ro</td>
</tr>
</tbody>
</table>
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 Tel-
Content of Volume: 17, Issue: 1 (February 2010)

Swell index, oedopermeametric, filter press and rheometric tests for identifying the qualification of bentonites used in GCLs, pp. 1–11, S. Rosin-Paumier; N. Touze-Foltz; A. Pantet; P. Monnet; G. Didier; D. Guyonnet; V. Norotte

Time histories of tensile force in geogrid arranged in two full-scale high walls, pp. 12–32, W. Kongkitkul; F. Tatsuoka; D. Hirakawa; T. Sugimoto; S. Kawahata; M. Ito

Influence of structural and material properties of GCLs on interface flow in composite liners due to geomembrane defects, pp. 34–47, M.J.A. Mendes; N. Touze-Foltz; E.M. Palmeira; P. Pierson

Fricton base isolation by geotextiles for brick masonry buildings, pp. 48–55, R.P. Nanda; P. Agarwal; M. Shrikhande

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 more information on obtaining electronic and hard copy subscriptions to Geotextiles and Geomembranes please go to the following IGS web site: www.geosyntheticssociety.org/

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

IGS News, Vol. 26, No. 1, March 2010
Physical and analytical modelling of geosynthetic strip pull-out behaviour, Pages 44-52, Chao-Sheng Tang, Bin Shi, Li-Zheng Zhao

Investigation of mechanisms of bentonite extrusion from GCL and related effects on the shear strength of GCL/GM interfaces, Pages 63-71, Yun-min Chen, Wei-an Lin, Tony L.T. Zhan

Technical Notes

Interaction between geogrid reinforcement and tire chip–sand lightweight backfill, Pages 119-127, T. Tanchaisawat, D.T. Bergado, P. Voottipruex, K. Shehzad


Please find the download of the articles at: http://www.sciencedirect.com/science/journal/02661144

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Foreword to special issue on Geo-synthetics in Mining Applications, Page 135, Abdelmalek Bouazza

Tailings-nonwoven geotextile filter compatibility in mining applications, Pages 136-148

Ennio M. Palmeira, Elder A. Beirigo, Maria G. Gardoni,

Hydraulic conductivity of geosynthetic clay liners to tailings impoundment solutions, Pages 149-162, Charles D. Shackelford, Gerald W. Sevick, Gerald R. Eykholt

Liner system design for heap leach pads, Pages 163-173, John F. Lupo

The performance of concrete proton liners in mine SX/EW mixers and settlers: The need for chemical resistance testing, Pages 174-180, Ian D. Peggs

Improved estimates of power consumption during dewatering of mine tailings using electrokinetic geosynthetics (EKGs), Pages 181-190, A.B. Fourie, C.J.F.P. Jones

The impact of mining solutions/liquors on geosynthetics, Pages 191-198, W.P. Hornsey, J. Scheirs, W.P. Gates, A. Bouazza

The potential role of geosynthetic clay liners in mine water treatment systems, Pages 199-205

K. Lange, R.K. Rowe, H. Jamieson


Bentonite transformations in strongly alkaline solutions, Pages 219-225, W.P. Gates, A. Bouazza

Measurement of filtration effects on the transmissivity of geocomposite drains for phosphogypsum, Pages 226-235, John S. McCartney, Russell E. Berends

Please find the download of the articles at: http://www.sciencedirect.com/science/journal/02661144

Conferences

Symposia

Workshops

Calendar of Events

10 - 13 May 2010
E-mail: dwchang@mail.tku.edu.tw
www.17seagc.tw/welcome.htm

5th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics and Symposium in Honor of Professor I. M. Idriss
San Diego, USA
24 – 29 May 2010
Email: geoeqconf2010@mst.edu

Short Courses

Expositions

Trade Shows

Symposium on New Techniques for Design and Construction in Soft Clays
Guarujá, Brazil
22 - 23 May 2010
E-mail: ssc2010@coc.ufrj.br
http://www.geotec.coppe.ufrj.br/ssc2010/

5geoeqconf2010.mst.edu
NUMGE2010
Trondheim, Norway
2 - 4 June 2010
E-mail: numge2010@videre.ntnu.no
www.ntnu.no/numge2010

DECGE - 14th Danube-European Conference on Geotechnical Engineering
University of Technology, Bratislava, Slovakia
2 - 4 June 2010
E-mail: decge2010@quarant.cz
www.decge2010.sk

International Geotechnical Conference
"Geotechnical Challenges in Megacities" Moscow, Russia
7 - 10 June 2010
E-mail: info@geoemos2010.ru
www.GeoMos2010.ru

European Rock Mechanics Symposium (Eurock 2010)
Rock Mechanics in Civil and Environmental Engineering
Lausanne, Switzerland
15 – 18 June 2010
Email: lm@epfl.ch
http://lm.epfl.ch

7th International Conference on Physical Modelling in Geotechnics
Zurich, Switzerland
28 June - 1 July 2010
E-mail: info@icpmg2010.ch
www.icpmg2010.ch

3rd International Symposium on Geosynthetic Clay Liners
Würzburg, Germany
15 -16 September 2010
E-mail: gbr-c2k10@skz.de

4th Remediation Technologies Expo
RemTech 2010
Ferrara, Italy
21 - 23 September 2010
Email: info@remtechexpo.com
www.remtechexpo.com

International Symposium on Geomechanics and Geotechnics: From Micro to Macro
Tongji University, Shanghai, China
10 - 12 October 2010
E-mail: mingjing.jiang@tongji.edu.cn
www.geotec.tongji.edu.cn/is-shanghai2010/

XXIII Italian Conference on Geosynthetics
Bologna, Italy
27 October 2010
E-mail: agiroma@iol.it

ISRM International Symposium 2010 and the 6th Asian Rock Mechanics Symposium
New Delhi, India
23 – 27 October 2010
E-mail: uday@cbip.org; cbip@cbip.org
www.arm2010.org

31. Baugrundtagung with Exhibition „Geotechnik“
60th Anniversary of DGGT
Munich, Germany
3 – 6 November 2010
E-mail: a.enke@interplan.de
www.baugrundtagung.com

Fifth International Conference on Scour and Erosion (ICSE-5)
San Francisco, California, United States
8 - 10 November 2010
E-mail: cavilla@avilaassociates.com
www.icse-5.org

5th International Conference on Geotechnical Challenges in Megacities
Geneva, Switzerland
12 -15 April 2011
E-mail: bconnett@ifai.com

Index 11
Geneva, Switzerland
12 -15 April 2011
E-mail: index11@geneva-palexpo.ch
www.index11.org

The 3rd International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation 2011 (GEDMAR2011) combined with the 5th International Conference on Geotechnical and Highway Engineering Semarang, Central Java, Indonesia
4 - 6 May 2011
E-mail: hpi_jateng@yahoo.com, geocofina@yahoo.com
www.reliability.geoengineer.org/GEDMAR2011/

7th International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground
Roma, Italy
16 - 18 May 2011
E-mail: info@tc28-roma.org
www.tc28-roma.org

XIV Asian Regional Conference on Soil Mechanics and Geotechnical Engineering
Hong Kong, China
23 - 28 May 2011

XV African Regional Conference on Soil Mechanics and Geotechnical Engineering
Maputo, Mozambique
13 - 16 June 2011

Fifth International Symposium on Deformation Characteristics of Geomaterials (IS-Seoul 2011)
Seoul, Korea
31 August - 3 September 2011
E-mail: dskim@kaist.ac.kr

XV European Conference on Soil Mechanics and Geotechnical Engineering
Athens, Greece
13 - 19 September 2011
E-mail: athens2011ecsmge@hssmge.gr
www.athens2011ecsmge.org

XIV Panamerican Conference on Soil Mechanics and Geotechnical Engineering (October) & V Panamerican Conference on Learning and Teaching of Geotechnical Engineering, & 64th Canadian Geotechnical Conference
Toronto, Ontario, Canada
2 - 6 October 2011

12th Baltic Sea Geotechnical Conference
Rostock, Germany
31 May – 02 June 2012

11th Australia - New Zealand Conference on Geomechanics
Melbourne, Australia
15 - 18 July 2012
(dates still to be confirmed)

EUROGEO5 - 5th European Geosynthetics Conference
Valencia, Spain
16 -19 September 2012
E-mail: info@eurogeo5.org
www.eurogeo5.org/index_i.html

32. Baugrundtagung with exhibition „Geotechnik“
Mainz, Germany
26 – 29 November 2012

GEOSYNTHETICS ASIA 2012 (GA2012)
5th Asian Regional Conference on Geosynthetics
Bangkok, Thailand
10 -14 December 2012
www.set.ait.ac.th/acsig/igs-thailand

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
Corporate Membership

Corporate Members of the IGS
(Sorted by Name)

ABG Limited
(United Kingdom, 2001)
Ace Geosynthetics
(Taiwan, R.O.C., 2003)
Agru Kunststofftechnik GmbH
(Austria, 1996)
Alpe Adria Textil
(Italy, 2002)
Alyaf Industrial Company Ltd
(Saudi Arabia, 2008)
Amanco Mexico, S.A. de C.V.
(Mexico, 2010)
Aqua Terra
(Republic of Panama, 2008)
Aquaterra Consultants Limited
(Hong Kong, China, 2009)
Asahi Kasei Geotechnologies Co., Ltd.
(Japan, 1984)
Ashimori Industry Co., Ltd.
(Japan, 2003)
Association of RRR Construction System, The
(Japan, 1998)
Atarfí S.L.
(Spain, 1999)
Axter Coletanche Inc.
(CANADA, 2009)
Beaulieu Technical Textiles
(Belgium, 1998)
Beijing Geovention Engineering & Technology Co., Ltd.
(China, P.R.), 2006)
Belton Industries, Inc.
(USA, 1989)
BMC Gulf Trading & Contracting LLC
(United Arab Emirates, 2008)
Bonar Technical Fabrics N.V.
(Belgium, 1985)
Cetco
(USA, 1992)
Chidak Baspar
(Iran, 2008)
Cidelsa
(Peru, 2010)
Cofra BV
(The Netherlands, 1991)
Colas Group, The
(France, 1996)
Colbond bv.
(The Netherlands, 1986)
Corpo
(Belgium, 2005)
Coripa S.A.
(Argentina, 2008)
CTH Geosyntherer AS
(Norway, 2008)
Dinagrid Geosynthetics S.L.
(Spain, 2005)
Don & Low Ltd.
(United Kingdom, 2009)
Du Pont de Nemours (Luxembourg) S.A.
(Luxembourg, 1984)
East Coast Erosion Blankets
(USA, 2009)
Edilfloor SpA
(Italy, 2002)
Emas Kiara SDN BHD
(Malaysia, 1999)
Engepol Geossintéticos Ltda
(Brazil, 2001)
Euroisol Geosynthetics
(Ukraine, 2006)
F.L.I. Environmental
(Ireland, 2002)
Fibertex A/S
(Denmark, 1984)
Field Lining Services
(Republic of Panama, 1998)
FITI Testing and Research Institute
(Korea, 1997)
Fontana International GMBH
(Austria, 2008)
Garware-Wall Ropes, Ltd.
(India, 2006)
Geofabrics Australasian Pty Ltd.
(Australia, 2009)
Geofabrics Ltd.
(United Kingdom, 1995)
Geofelt GmbH
(Austria, 1996)
Geosinteticos Trical, C.A.
(Venezuela, 2007)
Geosolutions Servicios em Geossintéticos Ltda.
(Brazil, 2006)
Geosynthetic Materials Association (GMA)
(USA, 1985)
Geosynthetics Technologies Co., Ltd.
(Saudi Arabia, 2007)
Geosystem Co., Ltd.
(Japan, 2000)
Geotech L.L.C.
(United Arab Emirates, 2007)
Geotexan
(Spain, 2009)
Geo-Tipplex Kft.
(Hungary, 2010)
Gidrokor Construction Company Ltd.
(Russia, 2004)
Golden Pow
(Korea, 2009)
GreenVision, S.p.A.
(Italy, 2004)
GSE Lining Technology Chile S.A.
(Chile, 2006)
GSE Lining Technology GmbH
(Germany, 2004)
GSE Lining Technology, Inc.
(USA, 1988)
High Stiffness Polyethylene Pipes Association
(Japan, 2005)
Hojun Yoko Co. Ltd.
(Japan, 2000)
Huesker Synthetic GmbH & Co.
(Germany, 1987)
Hui Kwang Corporation
(Taiwan, R.O.C., 2000)
I-CORP International
(USA, 2006)
Igreengeo, Inc.  
(Taiwan (R.O.C.), 2010)

Integrated Geotechnology Institute Limited  
(Japan, 1998)

Intermas Nets S.A.  
(Spain, 2008)

Isbir Sentetik Dokuma Sanayi A.S.  
(Turkey, 2008)

Japan Spunbond - Toray Corp.  
(Japan, 1984)

Kajima Corporation  
(Japan, 1985)

Kaytech Engineered Fabrics  
(South Africa, 2008)

Kuraray Co., Ltd.  
(Japan, 1989)

Lavios Chica Mineraria  
(Italy, 2002)

Maccaferri do Brasil Ltda  
(Brazil, 1998)

Maeda Kosen Co. Ltd.  
(Japan, 1992)

Manifattura Fontana S.p.A.  
(Italy, 2008)

Mekamore Co., Ltd  
(Korea, 2008)

Mitsubishi Plastics, Inc.  
(Japan, 1992)

Mitsui Chemicals Industrial Products, Inc.  
(Japan, 1992)

National Coir Research & Management Institute (NCRMI)  
(India, 2009)

NAUE GmbH & Co. KG  
(Germany, 1987)

NewGrids Limited.  
(United Kingdom, 2004)

Obayashi Corporation  
(Japan, 1988)

Officine Maccaferri S.P.A.  
(Italy, 1997)

OJSC “494 UNR”  
(Russia, 2003)

Okasan Livic Co. Ltd.  
(Japan, 1984)

Permathene, Ltd.  
(New Zealand, 2003)

Poly Flex, Inc.  
(USA, 1996)

Polytex S.A.  
(Peru, 2010)

Presto Geosystems  
(USA, 1996)

Propex  
(USA, 1991)

Punzonados Sabadell, S.A.  
(Spain, 2000)

Ramalho Comercial Ltda  
(Brazil, 2008)

Reinforced Earth Company, The  
(USA, 1989)

Saenal Techtex Co. Ltd.  
(Korea, 2009)

Samyang Corporation  
(Korea, 2003)

Servicios de Ingenieria Geosintetica S.A. (SIGSA)  
(Costa Rica, 2008)

Seven States Enterprise Co., Ltd.  
(Taiwan R.O.C., 2005)

Shenzhen Sheng Yi Environmental Co., Ltd.  
(China (P.R.), 2002)

Sohands Foundation Engineering Pvt. Ltd  
(India, 2008)

Solmax International, Inc.  
(Canada, 1997)

Sotrafa, S.A.  
(Spain, 2009)

Supertex, Inc.  
(USA, 2007)

Swiss Association for Geosynthetics SVG  
(Switzerland, 1984)

Taiyo Kogyo Corporation (SUN)  
(Japan, 1991)

Tanaka Co., Ltd.  
(Japan, 1993)

TechFab India Industries Ltd.  
(India, 2008)

Tecnologia de Materials S. A.  
(Peru, 2010)

Teknindo Geosistem Unggul, PT  
(Indonesia, 2009)

Tele Textiles AS  
(Norway, 1995)

TeMa Technologies and Materials Sd  
(Italy, 2006)

Tenax S.p.A.  
(Italy, 1991)

TenCate Geosynthetics Europe GmbH  
(Austria, 1984)

TenCate Geosynthetics North America  
(USA, 1998)

Tenex Corporation  
(Japan, 1998)

Tensar Geosynthetics (China) Ltd.  
(China (P.R.), 2003)

Tensar International  
(United Kingdom, 1989)

Tensar International Corporation  
(USA, 1989)

Terram Ltd.  
(United Kingdom, 1988)

Terre Armee International  
(France, 2002)

Texinov  
(France, 2007)

TMA, S.L.  
(Spain, 2000)

Tokyo Ink Co., Ltd.  
(Japan, 2005)

Tokyo Construction Co. Ltd.  
(Japan, 1984)

TRI/Environmental Inc.  
(USA, 2008)

Viganò Pavitex S.P.A.  
(Italy, 2006)

Werkos  
(Croatia, 1999)

Notes:
• A click to the name of the corporate member leads to the corresponding entry at the IGS website. The corporate members are encouraged to check their entry there!
• Date is earliest year of continuous membership
Kuraray for twenty years of continuous IGS corporate membership

A recognition award was presented to Kuraray, Japan, as one of the five companies recognized in 2009 as having twenty years of continuous corporate membership on 3rd December 2009, on the occasion of the 24th Annual Symposium on Geosynthetics Engineering organized by the IGS Japan Chapter at the Japanese Geotechnical Society, Tokyo. In this picture, on the behalf of the IGS, President Tatsuoka is presenting a certificate and a pitcher to Mr Matsuoka Shinji, representing Kuraray.

Corporate Members present Case Studies

The IGS Council approved a new initiative in Cape Town which provides the corporate membership the opportunity to present interesting case studies of geosynthetics applications in site works to the IGS and the general public audiences. Conceived as a powerful way to present the story of geosynthetics to a broad audience, the concept is to present a series of half page synopses, or abstracts, of case studies with each case study presented under the company logo and linked to the company web pages for further information and complete detail. The reader who finds a case history inviting can follow up immediately to harvest a full understanding with details and with a connection to the firm.

The editor of the IGS News will invite the corporate membership to present case histories with the most senior members having first priority followed by more recent member companies. For each issue the editor will issue 15 to 20 invitations to submit case histories. Up to 8 case histories will be published in each issue, which means that the entire membership will have the opportunity to tell a story every four years if not sooner. Of course, if a company misses a publication deadline, the editor will make every effort to include the tardy submission in one of the next issues.

Once published, the case history will live on in two forms. First, as the IGS website archives the IGS News, a reader who peruses the archived issues will have the opportunity to pursue interesting case histories through the identification of and link to the corporate member. Further, the IGS is developing a new and more powerful web site that will include the opportunity for the half page abstract to be expanded to as much as two pages which will also feature links to the corporate member who authored the case history.

Corporate members are encouraged to create case histories that communicate with the broadest user audience, from the small contractor to the landscaper to the sophisticated designer.

Geotube® Containers Offer Innovative Solution for Disposal of Coal Mine Slurry Waste

TenCate helps North River Mine continue processing coal by utilizing first ever large-scale Geobag® disposal method

Due to new regulatory restrictions, available area, and construction scheduling, the North River Mine coal processing plant in Berry, Alabama was facing a possible interruption of the primary disposal methods of its refuse – a waste stream of almost 1.5 million gallons of slurry per day. The mine needed to continue processing coal for shipment in order to meet customer needs, however conventional disposal methods of surface impoundment or injection into abandoned underground mine workings were not possible. An alternative disposal method was necessary for the plant to continue operation.

Since Geotube® containers were already being used to successfully dewater various types of sludge wastes, it was suggested that Geotube® technology could provide the processing plant with the waste disposal they needed. Due to the
volume of slurry to be processed, the mine sought a safe and efficient plan that would allow the containers to be reclaimed in place, instead of opening them and transporting the material to the course refuse disposal area. This was the first time the use of geosynthetic bags had been utilized for disposal of slurry waste from a mine washing facility on such a large scale. Careful consideration had to be taken in order to ensure the Alabama Surface Mine Commission would permit the project.

In order to maximize utilization of the bag fields, a stacked pyramid of four layers of Geotube® containers was designed. A manifold system, along with a polymer tank and pumps, was implemented to fill and manage the flow to multiple containers at once. A swinging ladder 8-inch dredge was placed into the slurry pond to pump the slurry into the containers. The dredge was initially operated on a 24-hour basis with two 12-hour shifts per day. A crew of five to six men managed the containers and operated the dredge. This set-up was capable of pumping 1,750 gallons of slurry per minute into the containers. The first layer of containers was filled from one side to the other allowing the next level of containers to be placed on top. This process continued until the desired level of four layers was reached. A second bag field was constructed prior to completion of the first. This provided two workable layout areas for continuous operation, eliminating downtime for the dredge and providing time for the containers to drain. A total of three bag fields were constructed and utilized during this project. The completed project utilized 240 Geotube® containers, and a total of 200,000 cubic yards were pumped and dewatered. Once all the bags in the fields were full and dewatered, the site was then ready for reclamation. Eventually, the bags were covered with earth and then topsoil. All of the bag field sites were very stable and no problems were encountered during the covering operation. Once reclamation was complete, the entire field was mulched and seeded.

Additional information can be requested from:
info@tencate.com
Or visit our website at www.tencate.com

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Bali’s First Modern Landfill Design

Bangli Regional Landfill in Indonesia’s Bali province is located about 60 km outside of Denpasar, the provincial capital and home to more than 500,000 residents. The region hosts Ngurah Rai International Airport - the main entry point into Bali - and numerous tourist destinations along Bali’s popular white sands beaches. When the Indonesian central government approved funding for the Bangli landfill project, the Ministry of Public Works put the country on a new path for landfill design. Bangli would become the first landfill in Indonesia to be designed with a modern lining system. It would serve as both a pilot project and the benchmark for future designs throughout the country.

The stability analysis performed by NAUE’s engineers revealed that the original design slopes were too ambitious for the site. Not enough stability and safety could be guaranteed given the site’s soils and seismic activity in the region.

Second, a soil veneer analysis was performed to identify the best geosynthetic materials for use in the liner system. The US Environmental Protection Agency (EPA) standard helped provide a strong guide for this site. The standard requires a base-liner system to have a minimum of one clay liner, either compacted clay or a geosynthetic clay liner (GCL) and one impermeable liner HDPE geomembrane.

NAUE proposed the use of Bento-fix® for the GCL and Carbofol® (1.5 mm thick) for the geomembrane. Third, after calculating loads such as drop energy, heavy equipment working on top of the material and waste, and the additional load from the drainage layer and soil cover, a cushioning layer of Secutex® R804 was proposed. Over this cushioning and separation layer, a 40 cm-thick drainage layer (rounded gravel) was installed. The piping system was installed inside this drainage layer system, and over it was placed a filtration layer that uses Terrafix® R609 geotextile. A 30 cm cover-soil layer forms the top of the system. As a final piece of insurance for the site, an access road that runs between two cells at this difficult to design for site was reinforced with Secugrid® 40/40 Q1.

From the initial concept to modernize Indonesia’s landfill practice to the final installation and construction quality assurance (CQA) measures, a great many aspects of geosynthetic design were showcased. The Bangli Regional Landfill is a welcomed and impressive construction for the country.

Further information can be requested from: hpohlmann@naue.com
or via www.naue.com
Hints for easy usage of this document

To allow easy and most effective use of this IGS News we tried to incorporate as many links to further information on the internet as possible. This means that moving around with the mouse pointer in the PDF-file allows direct linkage to webpages of the conferences, documents of IGS, journals, email addresses, IGS Corporate Members pages and many other things. Furtheron you can click on the page numbers at the “Content” on the front page to jump directly to the article. Another useful tool is the “bookmark” function within your PDF-Reader. This functionality shows you on the left part of your screen the content with the headlines of the articles and on the right part the article itself. If you have any further ideas to improve the usage of IGS News – please let us know!
IGS Council

**Elected in 2006**
- S. Allen (USA)
- G. Bräu (Germany)
- N. Dixon (United Kingdom)
- N. Freitag (France)
- M. Maugeri (Italy)
- J. Otani (Japan)
- E. Palmeira (Brazil)
- E. Peggs (USA)

**Co-opted in 2006**
- Y.M. Chen (China P.R.)
- J. Ferreyros (Peru)
- P. Legg (South Africa)
- P. Stevenson (USA)

**Co-opted in 2008**
- V. Pimentel (Brazil)

**Elected in 2008**
- D.T. Bergado (Thailand)
- A. Bouazza (Australia)
- P. Fantini (Italy)
- H.Y. Jeon (Korea)
- J. Kuwano (Japan)
- M. Sadlier (Australia)
- M. Ziegler (Germany)

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  - Chiba Prefecture 278-8510
  - JAPAN
  - Tel: 81/47122 98190
  - Fax: 81 47123 9766
  - E-mail: tatsuoka@rs.noda.tus.ac.jp

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  - Civil, Architectural & Environmental Engineering Department
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  - Austin, Texas 78712-0280 USA
  - Tel: 1/512 232 3595
  - Fax: 1/512 471 6548
  - E-mail: zornberg@mail.utexas.edu

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  - Tel: 39/02 2125 5375
  - Fax: 39/02 2125 5475
  - E-mail: cazzuffi@cesi.it

**Treasurer**
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  - 3 Arcadia, 99 Chuk Yeung Road
  - Sai Kung, N.T.
  - Hong Kong, China
  - Tel: 852/9884 8616
  - Fax: 852/2849 2918
  - Email: cowland@netvigator.com

**Secretary**
- Mr. Peter E. Stevenson
  - 226 Sitton Rd.
  - Easley, SC 29642-8393 USA
  - Tel: 1/864 855 0504
  - Fax: 1/864 859 1698
  - E-mail: IGSPete@geosyntheticssociety.org

Visit the IGS Website:
- [www.geosyntheticssociety.org](http://www.geosyntheticssociety.org)

IGS MEMBERSHIP REQUIRES ELECTRONIC COMMUNICATION – PLEASE ENSURE WE HAVE YOUR CURRENT E-MAIL ADDRESS!
The International Geosynthetics Society

OBJECTIVES OF THE IGS

The International Geosynthetics Society was formed with the following objectives:
to collect, evaluate, and disseminate knowledge on all matters relevant to geotextiles, geomembranes, related products, and associated technologies;
to improve communication and understanding regarding geotextiles, geomembranes, related products, and associated technologies, as well as their applications;
to promote advancement of the state of the art of geotextiles, geomembranes, related products, and associated technologies; and
to encourage, through its Members, the harmonization of test methods, and equipment and criteria for geotextiles, geomembranes, related products, and associated technologies.

WHY BECOME A MEMBER OF THE IGS?

First, to contribute to the development of our profession.

By becoming an IGS Member you can:
help support the aims of the IGS, especially the development of geotextiles, geomembranes, related products, and associated technologies;
contribute to the advancement of the art and science of geotextiles, geomembranes, related products, and their applications;
provide a forum for designers, manufacturers, and users, where new ideas can be exchanged and contacts improved; and
become increasingly informed, involved, and influential in the field of geotextiles, geomembranes, related products, and associated technologies.

Second, to enjoy the benefits.

The following benefits are now available to all IGS Members:
the IGS Membership Directory, published yearly;
the newsletter, IGS News, published three times per year;
free electronic issues of Geosynthetics International and Geotextiles & Geomembranes;
a CD containing the 19 IGS Mini Lecture Series;
a DVD containing the three IGS Videos;
information on test methods and standards;
discount rates on the purchase of any future documents published by the IGS and on the registration cost of all international, regional, or national conferences organized by or under IGS auspices;
preferential treatment at conferences organized by or under the auspices of the IGS; and
the possibility of being granted an IGS award.

Please check whether there is a local IGS Chapter in your country (list at page 17)! otherwise please use the online form at http://www.geosyntheticssociety.org/application.htm or the following

IGS Membership Application

Membership of the Society is open to Individuals or Corporations "...engaged in, or associated with, the research, development, teaching, design, manufacture or use of geotextiles, geomembranes and related products or systems and their applications, or otherwise interested in such matters." The annual fee for membership is (US) $45 for Individual Members and (US) $1000 for Corporate Members. Individuals or Corporations who voluntarily contribute a minimum of (US) $200 annually to the Society, in excess of their membership dues, will be mentioned in the IGS Membership Directory in a separate list as benefactors. Send this completed form to:

IGS Secretariat
P.O. Box 347,
Easley, SC 29641-0347 USA
Tel: 864 855 0504        Fax: 864 859 1698
Email: IGSsec@geosyntheticssociety.org

Attach your business card or fill in your address (print or type if possible), as you wish it to appear in the next IGS Membership Directory.

Title (circle one): Mr.  Ms.  Dr.  Prof. Other: ____________________
First Name:________________ Last Name: _________________
Company, Division, Function (if applicable): ____________________
Position/Title:____________________________________________
Address (Street or Postal Box):______________________________
_______________________________________________________
City:________________________  Province/State:______________
Postal Code:________________ Country: ___________________
Telephone:______________    Fax:_______________________
Email:__________________________________________________
Eligibility (connection with geotextiles, geomembranes, related products or associated technologies):_____________________________
Keyword (up to 25): _______________________________________
_______________________________________________________

Membership fee: Individual (US) $ 45, Corporate (US) $1000, Benefactor (minimum (US) $ 200

☐ Payment by check
check enclosed (drawn on a US bank) payable to the International Geosynthetics Society

☐ Credit Card
Circle One: MasterCard    Visa      American Express
Credit Card No.: ____________________  Exp. Date:_________
Name on Card:_______________________________________
Authorized Signature:__________________  Date:___________