

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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General Information for IGS Members

IGS Awards: Call for Nominations 2014 – 2017

Nominations due by 31 January 2018



Neil
Dixon

IGS Awards will be granted in 2018 to individuals or groups of individuals who have made an outstanding contribution to the development and use of geotextiles, geomembranes, related products, or associated technologies through their scientific and technological achievements. For example, an award can be given for design and construction of a structure; publication of a technical document (e.g. paper, book, article, manual); completion of a research program; and development of new products and techniques.

The Awards recognize the achievements completed and/or the validity of which have been demonstrated during the four-year period preceding the year of the Award (i.e. 1st January 2014 to 31st December 2017). The winning entries will be publicised in IGS

News, in a special press release on the IGS web site and in other IGS publications.

Timeline and Deadlines

Nominations must be received by the IGS Secretary (via the Secretariat at IGSsec@geosyntheticssociety.org) no later than **31 January 2018**. The deadline for receipt of candidate award submission packages is **31 March 2018**. Submission packages will be forwarded by the Secretariat to the Award Committee to review and to finalize their decisions, draft citations and report.

Awards will be presented during 11ICG in Seoul, Korea (16th to 21st September 2018), at the IGS Awards Ceremony tentatively scheduled at 16:30 on 19 September 2018.

There are two types of IGS Awards:

- **The Young IGS Member Achievement Award**
(This Award is for IGS Members who are less than 36 years of age on 31 December 2017)
- **The IGS Award**

Detailed information on these awards may be found on the IGS Web site under the **About IGS >> Awards section**.
<http://www.geosyntheticssociety.org/awards/>

The awards will consist of a specially commissioned medal and a diploma.

If a group submission is made for the **Young IGS Member Achievement Award**, all members of the group should satisfy the age requirement. If this requirement is not satisfied, the entire group will be disqualified for the Young IGS Member Achievement Award. If a candidate, individual or group, satisfies the age requirement for the Young IGS Member Achievement Award, the entry submitted by this candidate will also be considered for The IGS Award (unless requested otherwise by the candidate). However, a candidate may only receive either the IGS Award or the Young IGS Member Achievement Award.

Candidates

All members of IGS are eligible for IGS Awards except the President of IGS and the members of the Awards Committee. Candidates must be members of the IGS. If a group submission is made, all members of the group must be members of the IGS; if this requirement is not satisfied, the entire group will be disqualified. If a company is a candidate, this company must be a corporate member of the IGS. A company cannot be a candidate for the Young IGS Member Achievement Award.

The deadline for candidates to be members and companies to be corporate members of the IGS is 30 June 2017.

IGS members are encouraged to become candidates by providing a written nomination submission to the IGS Secretariat in accordance with the IGS Awards Rules found in the [IGS Handbook beginning on page 78](#). Any IGS member except the members of the Awards Committee may also make nominations. The Communication, Education and Corporate committees of the IGS and the IGS Chapters are invited to make nominations. All candidates will be treated equally (i.e. irrespective of whether they make a personal submission or are nominated). There is no restriction in the number of awards an individual can receive. There is no time restriction between two periods of eligibility, which can correspond to two consecutive four years periods. However, awards can only be given to the same individual provided that they are attributed for two different bodies of work.

The Awards Committee will not be advised as to the name(s) of the individual/group making the submission/nomination (i.e. the method of candidature is confidential).

Nominations

Nominations of candidates should be provided in English on a plain document (not letterhead) and submitted electronically to the IGS Secretariat IGSsec@geosyntheticsSociety.org.

The nomination should include:

- a clear statement of the contribution of the candidate that is to be considered (e.g. if a product, provide a clear definition of the product; if a paper(s) or book, give the full reference of the paper(s)/book; if a report, a full reference to the report; if a construction method, a clear description of the method and any references, etc.); and
- a clear statement indicating the originality, and significance of the candidate's contribution to the discipline (i.e. in the field of geosynthetics, related products and/or associated technologies).

Candidates who have been nominated will be contacted by the IGS Secretary to obtain their agreement to be a candidate (and proof of age if the nomination is for the Young IGS Members Achievement Award). Each confirmed nominee will receive an email with submission details and time line.

All correspondence and activities related to nominations and award entries will be carried out in the strictest confidence by the IGS Secretary and the Awards Committee.

IGS Awards Committee

The Awards Committee appointed by the officers of the IGS comprises: Chairman Neil Dixon (UK), Secretary Erol Güler (Turkey), Jiro Kuwano (Japan), Bernardo Caicedo Hormaza (Colombia) and Richard Brachman (Canada). The members of the committee have been selected so as to represent a broad cross-section of the discipline and for their technical expertise. The IGS Secretary Elizabeth Peggs will attend all meetings of the Awards Committee as an observer and coordinator.

Additional Information

The full text of the IGS Awards rules can be obtained from the IGS Secretariat Manager, Terry-Ann Paulo, or accessed on the IGS Web site under About IGS>>Society Documents>>[IGS Handbook](#)

Reported by

Neil Dixon, Chair of IGS Awards Committee

Request for Proposals to Host 12 ICG 12th International Conference on Geosynthetics

Dear IGS Chapter Leaders,

The IGS is pleased to announce the Call for Proposals for the 12th International Conference on Geosynthetics to be held in 2022.

All IGS Chapters are being invited to submit a proposal to host or co-host this important event. If your chapter would like to submit a proposal please contact IGSsec@GeosyntheticsSociety.org for a set of written guidelines. Please appoint one chapter official to represent your chapter in the application process.

The deadline for submission of the formal proposal is 14 July 2017.

Proposal presentations will be made during the IGS Council meetings at GeoAfrica 2017 on 8 October 2017. The successful proposal will be selected by vote of the IGS council.

If you have any questions regarding this application process please contact Elizabeth Peggs (elizabeth@geosindex.com).

Reported by

Elizabeth Peggs, Secretary - International Geosynthetics Society

Young Members Committee meet at Geotechnical Frontiers Orlando Conference

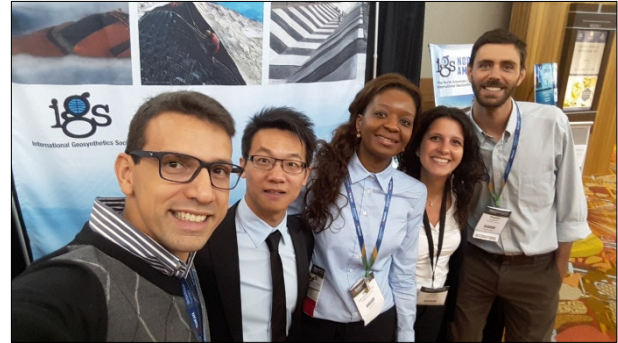
The IGS young members committee recently met at the Geotechnical Frontiers conference in Orlando in March 2017. This was the first committee meeting as a fully formed committee with the recent inclusion and finalization of the North America sub region, which is head by Yewei Zheng. The full young members committee effective November 2016 are made up of the following;

- Irene Inan (President and Chair for Africa and Middle East Region)
- Laura Carbone (Vice President and Chair for Europe Region)
- Preston Kendall (Treasurer and Chair for APAC Region)
- Yewei Zheng (Chair for North America Region)
- Fagner Franca (Chair for South America Region)

The key focus of the committee meeting was a full day session on the Sunday 12 March 2017 and some of the key

areas of the discussions were as follows;

- Organizational structure within the various regions with particular focus on regional membership growth
- Succession plan within the young members to ensure continuation of activities
- Young members involvement in IGS portfolios and technical committees
- Young members involvement at local chapter level



The committee meetings closed off with a feedback session with Dr Jorge Zornberg on the Wednesday 15 March 2017.

Although the conference was not fully coordinated by IGS, the conference venue was chosen for two main reasons. An early committee meeting into 2017 ensured the goals and objectives were clearly identified, communicated and discussed with all committee members in particular new members to the board, and where clarity was required, we could be discussed in person and resolve it. Secondly, it allowed for networking opportunities with the young geotechnical engineers at the conference as various activities that were planned. Lastly, the young members were ambassadors for the IGS.

*Reported by
Irene Inan, President of IGS Young Members Committee*

New Translations Available for Geosynthetics for Sustainable Development

The IGS is pleased to offer the Geosynthetics for Sustainable Development video in Korean and French. Translating the Sustainability Video into every IGS Chapter's official language has been an initiative of the IGS. The Sustainability Video has also been previously translated into German and Portuguese. To view these videos, please visit and subscribe to the IGS Youtube Channel: https://www.youtube.com/channel/UCt-N4NIX6xkbYc5F8Z6Md_g

The Geosynthetics for Sustainable Development Video asks the question: "What defines quality of life?" It's a question that's being answered by a call for solutions that are sustainable and protect the earth and its limited resources. More and more, sustainable infrastructure solutions are being addressed with high-quality, engineered geosynthetic materials. As the increasing demand for improved living conditions is driven by the growing world population, consumption is outpacing supply of virtually all resources. The video seeks to show how geosynthetics are a solution to building sustainable civil, geotechnical and environmental infrastructure projects.

If you and your chapter would like the Sustainability Video translated into your chapter's official language, please contact the IGS Secretariat at IGSsec@GeosyntheticsSociety.org.

*Reported by
Terry Ann Paulo, Secretariat Manager, International Geosynthetics Society*

Announcement of the International Conference of IGS

11th ICG International Conference on Geosynthetics Geosynthetics: Innovative Solutions for Sustainable Development Seoul, Korea, 16 – 21 September 2018



On behalf of the Organizing Committee, it is my great honor and pleasure to invite you to the 11th International Conference on Geosynthetics (11ICG), which will be held in Seoul, Korea from September 16 to 21, 2018.

The Korean Geosynthetics Society (KGSS) will have the privilege of hosting 11ICG in Korea, and plans to go to great lengths to ensure the conference surpasses all expectations. The 11ICG will provide all participants a firm platform for a meaningful academic, professional, social and cultural experience. The theme of the 11ICG is “Geosynthetics: Innovative Solutions for Sustainable Development,” and will cover diverse disciplines of geosynthetics from fundamentals to applications.

With the vision of making a multidisciplinary conference for the geosynthetics industry and engineers, we plan to offer special events as well as a very dynamic and stimulating array of scientific and practical engineering programs. At 11ICG, academia and industry will gather in force to not only show their best, but to share valuable ideas and develop new friendships.

11ICG will provide a comprehensive overview of the most recent developments in the field of geosynthetics, the latest technologies and applications, and a unique and extensive technical exhibition. With fascinating ancient traditions and ultramodern lifestyle, the city of Seoul will surely be the center of many unforgettable moments.

We look forward to welcoming you in Seoul, Korea!

Sincerely yours,

Prof. Chungsik Yoo
Chair, Organizing Committee of 11ICG
Vice President, International Geosynthetics Society
President, Korean Geosynthetics Society

Preliminary Program

	Sep.16 (Sun)	Sep.17 (Mon)	Sep.18(Tue)	Sep.19 (Wed)	Sep.20 (Thu)	Sep.21(Fri)
08:00						
09:00		Opening Ceremony				
10:00		Plenary Lecture	Plenary Lecture	Plenary Lecture	Plenary Lecture	Technical Visit
11:00		Break	Break	Break	Break	
12:00		Plenary Lecture	Parallel Sessions	Parallel Sessions	Parallel Sessions	
13:00		Lunch	Lunch	Lunch	Lunch	
14:00		Parallel Sessions	Parallel Sessions	Parallel Sessions	Parallel Sessions	
15:00		Parallel Sessions	Forum for Young IGS	Parallel Sessions	Closing Ceremony	
16:00		Break	Break	Break		
17:00		Parallel Sessions	Parallel Sessions	General Assembly		
18:00						
19:00	Welcome Reception	Happy Hour	Special Event	Conference Dinner	IGS Council Dinner	
20:00						

Theme and Topics

- Geosynthetics: Innovative Solutions for Sustainable Development
- Geosynthetic Barriers
- Geosynthetics in Filtration, Drainage and Erosion Control
- Reinforced Walls and Slopes
- Ground Improvement using Geosynthetics
- Roads, Railways and other Transportation Applications
- Soil-Geosynthetic Interaction
- Hydraulic Applications
- Innovative Uses and New Developments
- Case Histories
- Durability and Long Term Performance
- Physical and Numerical Analysis
- Geosynthetic Properties and Testing
- Quality Control and Quality Assurance
- Design Approaches and other Applications

Important dates:

- 31 March 2017 Abstract Acceptance Notice
- 29 September 2017 Paper Submission Deadline
- 29 December 2017 Paper Acceptance Notice
- 30 March 2018 Final Paper Submission Deadline
- 30 March 2018 Early Registration Deadline

For more information visit <http://www.11icg-seoul.org/>

Announcements of Regional Conferences of IGS

GeoAfrica 2017 – 3rd African Regional Conference on Geosynthetics

Marrakech, Morocco, 08 – 11 October 2017



GeoAfrica 2017 will be held between 08 - 11 October 2017 in Marrakech, Morocco. This major event marks the third African Regional Conference on Geosynthetics. To be held under the auspices of the International Geosynthetics Society (IGS) and hosted and organized by the IGS Moroccan Chapter, the event offers an exceptional opportunity for geosynthetics-related engineering and construction professionals to interact with the African continent's growing infrastructure.

Keynote & Lectures

- Geosynthetics for sustainable development, Mohamed Choura from Sfax / Pr. Ejjaouani
- Lining in hydraulic applications, Manuel Blanco
- Reinforcement of transport infrastructures, Ph. Delmas, Alain Nancey

Speciality Sessions

- Geosynthetics and functions
- Selection of a geotextile for filtration
- Methodology for reinforcement design
- Choice of Geosynthetics for hydraulic applications

Exhibition

An exhibition will be connected to the conference

Important Dates

- April 15th, 2017 Deadline for paper submission
- July 30th, 2017 Submission of final paper and closure of early bird registration
- October 08th, 2017 GeoAfrica Registration
- October 09th, 2017 GeoAfrica conference opening

Further information

contact@geoafrica2017.com

<http://geoafrica2017.com/>

Announcements of Conferences under the Auspices of IGS

Transportation Geotechnics and Geocology – TGG 2017

St. Petersburg, Russia, 17 – 19 May 2017

Nowadays transportation infrastructure faces great challenges due to increasing of operation speed and load and construction in specific conditions. The International scientific conference “Transportation Geotechnics and Geocology” will be held in Emperor Alexander I Petersburg State Transport University on May 17th – 19th, 2017 to give an up-to-date picture of the field of design, construction and exploitation of transport facilities and to share the latest experience.

For more information, visit <http://conf-geotech.wixsite.com/tgg-2017>; or contact the organizing committee at geotech@pgups.ru.

Conference language – English.

Contact: Andrei Petriaev email: mailto:pgups60@mail.ru

EurAsian Geotextiles Symposium (EAGS)

Beijing, 07 - 08 June 2017



Organised under the auspices of IGS, the EurAsian Geotextiles Symposium (EAGS) will take place in Beijing on 7 - 8 June 2017.

The first event of its kind, the EAGS is a two-day conference and exhibition covering markets, products and technology for geotextiles. Featuring a conference and an exhibition, the EAGS is designed to cover both nonwoven and woven geotextiles and to encompass the entire value chain, from raw materials to buyers and users of geotextiles, in Greater Europe and Asia.

The Symposium's programme will include the following themes:

- Best practice in specifications of geotextiles
- Improved understanding of the market for geotextiles
- Identification of new opportunities for growth

Abstracts including a proposed title, 3 - 4 bullet points summarising the presentation and the full contact details of the speaker should be sent to eva.fabbri@edana.org by 30 September 2016.

This event will be co-organised by CNITA, the China Nonwovens & Industrial Textiles Association, and EDANA, the leading global association serving the nonwovens and related industries. The Symposium is focussed on geotextiles in Eurasia and aimed at supporting the growth of the geotextiles market in China and in Asia as a whole and helping companies access this dynamic market.

The EAGS is designed to offer extensive networking opportunities, attracting leading decision makers from across the geotextiles supply chain. Top level speakers will give presentations on recent and upcoming developments of 2 relevance for geotextiles markets in Europe and Asia and the table top exhibition will provide a unique opportunity for companies to meet new and existing business partners and promote their products and services.

Further information is available at: <http://www.edana.org/educationevents/conferences-and-symposia/event-detail/eurasia-geotextiles-symposium-2017>

*Reported by
Pierre Conrath, Edana*

GeoMEast 2017 International Congress and Exhibition “Sustainable Civil Infrastructures: Innovative Infrastructure Geotechnology”

Sharm El-Sheikh, Egypt, 15 – 19 July 2017

The GeoMEast 2017 International Congress and Exhibition will be held in Sharm Elsheikh, Egypt from July 15 to 19, 2017. The GeoMEast SERIES is managed by SSIGE and supported by a number of leading international professional organizations.

Recent rapid construction in Egypt and the Middle East has provided great opportunities for bridge, pavement, geotechnical, geological, tunnel and all engineers to use their knowledge and talents to solve many challenging problems involving highways, bridge structures, pavements, materials, ground improvements, slopes, excavations, dams, canals and tunnels with innovative solutions and cutting-edge technologies.

GeoMEast 2017 will provide a showcase for recent developments and advancements in design, construction, and safety Inspections of transportation Infrastructures and offer a forum to discuss and debate future directions for the 21st century. Conference topics cover a broad array of contemporary issues for professionals involved in bridge, pavement, geomechanics, geo-environmental, geotechnical, geosciences, geophysics, tunnel, water structures, railway and emerging techniques for safety inspections. You will have the opportunity to meet colleagues from all over the world for technical, scientific, and commercial discussions.

The program will include Podium Presentations, Poster Presentations, Keynote Lectures, Workshops, Courses, Awards, Technical Meetings, and Technical and Social Tours.

Simultaneous translation may be provided during the conference in Arabic, English, French, German, Russian and any other required languages.

For more information, visit <http://www.geomeast2017.org/> or send your queries to: Info@GeoMEast2017.org, Info@SSIGE.org

News from the IGS Chapters and the Membership

IGS-North America Photo Contest Winners

IGS-North America proudly announced the winners of its first ever photo contest during their General Assembly held at Geotechnical Frontiers 2017. The photo contest was open to all members of IGS North America and demonstrates geosynthetics in action.



1st - Marc Breault from Paradox Access Solutions Inc.

Photo description: Tough Cell are used on a Road Base with Sand Infill in a low CBR area. Location: Northern Alberta, Canada



2nd - Donaciano Ángeles from Geomembranas y Geosintéticos, certificate accepted by Angel Diaz

Photo description: High scale separation using Mirafi® S1000M Non-Woven Geotextiles for the construction of the New Mexico City International Airport to improve the soil bearing capacity with imported bank materials over the area where the Texcoco Lake



3rd - Alfonso Narvárez from Geomembranas y Geosintéticos, certificate accepted by Angel Diaz

Photo description: Mirafi® Rsi Series for Soil Reinforcement. Sub grade stabilization facing unstable, saturated soft soils for the Villahermosa Freeway in Tabasco, Mexico.

Reported by
IGS-North America

XXVIII Italian National Conference on Geosynthetics

Bologna, Italy, 19 October 2016

The XXVIII Italian National Conference on Geosynthetics was held on 19 October 2016 in Bologna in occasion of the huge construction exhibition SAIE 2016 and gave excellent results in terms of number of registered attendees and of quality of presented papers, also.

This time the conference theme was "**Reinforcement, Filtration and Containment in Geotechnical Engineering Structures**", concerning the use of geosynthetics for civil, geotechnical and environmental engineering applications.

The conference was organised by the Italian Geotechnical Association (AGI) and by the Italian Chapter of the International Geosynthetics Society (AGI-IGS), in partnership with BolognaFiere, under the auspices of the National Engineers Council (CNI), the Association of Bologna's Engineers and the University of Bologna.

The conference took place in the context of the SAIE Exhibition (the international reference point for the world of construction in Italy) and it was divided in two different sessions.

Daniele Cazzuffi (AGI-IGS President and IGS Past President) chaired the morning session, introducing one keynote lecture and three papers.

The first keynote was presented by Giuseppe Cardile (Mediterranea University of Reggio Calabria, Italy) and it focused on the design of geosynthetic reinforced soil structures, taking into account the international standards currently used worldwide and the recent developments achieved with regard to the construction technologies and to the evaluation of the design parameters required in the conventional analysis methods.

The other three contributions of the morning session were devoted to some innovative concepts for the design of structures where geosynthetics are used with reinforcement function, such as reinforced embankments subject to boulder impacts, slope-reinforced embankment systems, and practical applications of geogrids in the stabilisation of aggregates in railway tracks.

Nicola Moraci (AGI President) chaired the afternoon session, opening it with the presentation of the AGI-IGS Award for the best thesis on Geosynthetics Engineering discussed in the last two years in an Italian University. The winner was Laura Stefanile (University of Padova) with a Master's Degree thesis on the "Static and cinematic aspects for the evaluation of the interface behaviour of geosynthetics".

Also Piergiorgio Recalcati was recognized for the recent IGS Chapter Achievement Awards received in Ljubljana during EuroGeo 6.

After the awards ceremony, one keynote lecture and three papers were presented.

Daniele Cazzuffi presented the keynote lecture, illustrating the advanced approaches in the design of geotextile filters.

The other contributions were devoted to some innovative applications of geosynthetic containers able to ensure the dewatering process and to polymer coated steel nets for the protection of dykes against the intrusion of beavers.

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



Awards ceremony during the Italian conference on Geosynthetics from left to right: Laura Stefanile, Claudio Soccodato, Nicola Moraci, Piergiorgio Recalcati, Daniele Cazzuffi



Giuseppe Cardile during his keynote lecture on reinforcement

Proceedings were edited by Daniele Cazzuffi and Claudio Soccodato. The volume, containing almost 100 pages, is available at a cost by contacting Pàtron Editore at the following email: advertising@patroneditore.com

The next XXIX Italian National Conference on Geosynthetics will be held in October 2018 in Bologna as well.

Reported by

Daniele Cazzuffi (AGI-IGS President and IGS Past President) and Giuseppe Cardile (AGI-IGS Secretary)

One-day Workshop “Geosynthetics for Slope Stabilization” @ World Landslide Forum 4, 01 June 2017, Ljubljana (Slovenia)



AGI - IGS Sezione Italiana dell' International Geosynthetic Society

The Italian Chapter AGI-IGS of the International Geosynthetic Society (IGS) will run a one-day workshop for all interested experts and also for the IGS members on 1st June 2017.

The organizers are Daniele Cazzuffi (IGS Past President, CESI SpA, Milano, Italy) and Sabatino Cuomo (LARAM School, University of Salerno, Italy)

Slope stability can be increased by modifying the ground surface geometry, through superficial or deep drainage, using soil improvement techniques, installing continuous or discrete retaining structures such as walls or piles. Geosynthetics are polymeric products commonly used for reinforcement and erosion control of man-made soil structures and artificial slopes. The reinforcement type, the soil mechanical properties and the anchorage system, as well as the extensibility, disposition and shape of the reinforcements lead to different behaviour in terms of deformation and strength. Geotechnical characteristics of the soil influence the stress distribution at the soil-reinforcement interface. The interaction behaviour between soil and geosynthetics is experimentally measured through pull-out tests and direct shear tests, and the resulting properties have direct implications on the design of reinforced soil structures. Inclined plane tests are also widely used, especially in Europe, for measuring the friction interface of geosynthetics. The increasing use of geosynthetics as reinforcing elements in soil structures – eventually associated with vegetation – has greatly encouraged sophisticated experimental work, including laboratory models and centrifuge tests, and advanced numerical analyses, in order to gain a better insight into the reinforcement mechanisms as well as to validate or improve the existing design methods. The workshop is aimed to provide an opportunity to researchers and practitioners for sharing experience, ideas and best practices in the field of slope stabilization through geosynthetics and related products.



For sending a proposal for presentation is required:

the title, the list of authors and affiliations, and a short description of the presentation contents with relevant references. No paper is asked for.

Proposal for a 15 minutes presentation can be sent to the email address: scuomo@unisa.it

Deadline for sending a proposal **March 30 2017**

Those of you who want to participate only to the One-day Workshop "Geosynthetics for slope stabilization" are allowed to **register** at a special price of **100 euro** for the full day participation (<http://www.wlf4.org/registration/>) before March 30 2017.

Reported by

Daniele Cazzuffi (AGI-IGS President and IGS Past President) and Sabatino Cuomo (AGI-IGS Board member)

French Geosynthetics Committee

The French Geosynthetics Committee presents the members of its new office. This announcement follows the elections held after the General Meeting of March 7, the eve of the 11th edition of the Rencontres Geosynthetics (Lille on March 8 to 9) and have appointed:

- Nathalie Touze-Foltz, to the position of President of the CFG, succeeding Jean-Pierre Magnan, who had held this position since 2003.
 - Yves Durkheim, to the post of 1st Vice-President of the CFG, succeeding Nathalie Touze-Foltz in office since October 2016.
 - Sébastien Guenaicheau, who joined the office for a first term as two of Vice President, succeeding Yves Durkheim in operation since October 2016.
 - Hubert Giraud, who is confirmed as Treasurer for a new term.
 - Benjamin Chevrol, who joined the CFG office by his first term as Deputy Treasurer.
 - Nicolas Racana, Secretary General, succeeding François Caquel, who had held this position since 2003.
 - Guillaume Stoltz, appointed for the first time in the office, as Deputy Secretary General of the CFG.
- Jean-Pierre Magnan and François Caquel, respectively Chairman and Secretary General of the previous Board, who actively contributed to the CFG's influence during their mandates, were re-elected to the CFG Board.

Reported by

French Geosynthetics Committee

6th Upper Austrian Geotechnical Day - Geosynthetics

27 September 2017, Steyregg, Austria

The 6th Upper Austrian Geotechnical Day will be dedicated to Geosynthetics. This event will be held in Steyregg near Linz, traditionally one of the Austrian hotspots for geosynthetics.

The technical program is just about to be finalised. It will contain expert-information on latest practical examples of application as well as about design methods.

We invite you to use this forum and visit this meeting of the Austrian geosynthetics world. It will take place on 27 September 2017 at BAUAkademie OÖ in Steyregg.

Pre-registration and further Information under: zaussinger@ibbg.at.

The Austrian IGS Chapter is organising this event together IBBG, VÖBU and Bauakademie Oberösterreich.

Reported by

Gernot Mannsbart, IGS News Correspondent for the Austrian IGS Chapter

List of IGS Chapters

Country	Name of IGS Chapter Year of Foundation	IGS Chapter President	webpage further email address
Argentina	Argentinean Chapter 2009	Dr. Marcos Montoro marcos_montoro@yahoo.com.ar	www.igsargentina.com.ar/ secretario@igsargentina.com.ar
Australia and New Zealand	Australasian Chapter 2002	Graham Fairhead gfairhead@fabtech.com.au	Amir@globalsynthetics.com
Austria	Austrian Chapter 2016	Prof. Heinz Brandl	g.mannsbart@tencate.com
Belgium	Belgian Chapter 2001	Prof. Jan Maertens jan.maertens.bvba@skynet.be	tara@2mpact.be info@bgsvzw.be
Brazil	Brazilian Chapter 1997	Eng. André Estêvão Ferreira da Silva andre@huesker.com.br	www.igsbrasil.org.br igsbrasil@igsbrasil.org.br
Chile	Chilean Chapter 2006	Dr. Felipe Villalobos avillalobos@ucsc.cl	Fernando Castillo castillofernando072@gmail.com
China	Chinese Chapter 1990	Prof. Chao Xu c_axu@tongji.edu.cn	c_axu@tongji.edu.cn liqx@tsinghua.edu.cn
Chinese Taipei	Chinese Taipei Chapter of the IGS	Dr. Chou, Nelson N.S. nchou1031@gmail.com	www.cgawebsite.org.tw yuancl@mail.sinotech.com.tw
Colombia	Colombian Chapter 2013	Prof. Bernardo Caicedo Hormaza bcaicedo@uniandes.edu.co	geosinteticos.colombia@gmail.com
Czech Republic	Czech Chapter 2003	Eng. Lumír Miča igs@igs.cz	www.igs.cz mica@igs.cz
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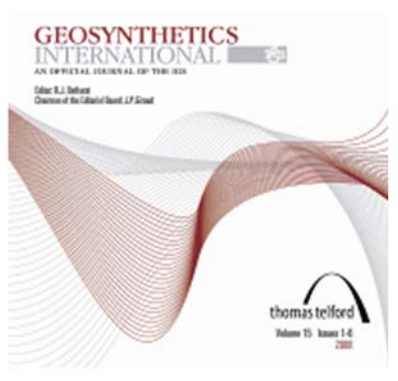
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- [Deterministic and probabilistic failure analysis of simple geosynthetic reinforced soil slopes](#), S. Javankhosdel, R. J. Bathurst
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- [Time-dependent behaviour of fully and partially penetrated geosynthetic encased stone columns](#), S. Rajesh
- [Experimental study on the combined application of vacuum preloading – variable-spacing electro-osmosis to soft ground improvement](#), H. Fu, Y. Cai, J. Wang, P. Wang
- [Physical and hydraulic response of geomembrane wrinkles underlying saturated fine tailings](#), P. Joshi, R. K. Rowe,

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[Tensile behaviour of an HDPE geogrid under cyclic loading: experimental results and empirical modelling](#), G. Cardile,

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[Load transfer mechanism and deformation of reinforced piled embankments](#), Diego F. Fagundes, Márcio S.S. Almeida, Luc Thorel, Matthieu Blanc

[Efficiency of cellular geosynthetics for foundation reinforcement](#), Mohammad Oliaei, Saeed Kouzegaran

[Laboratory and field investigation of the effect of geogrid-reinforced ballast on railway track lateral resistance](#), Mor-teza Esmaili, Jabbar Ali Zakeri, Mohammad Babaei

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Case Studies – Use the Chance!

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 (up to 1 page with pictures). Usually if there are more announcements we will place them on a list and will use them on a “first come, first serve” basis. For this issue we have no “Profiles” therefore we expand the case studies section. 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.

Reported by

Gerhard Bräu, IGS News Editor

Securing Hazardous Waste in Uganda



After more than 50 years of pump storage operation and numerous changes to the site's inlets and outlets, the dam of the Hohenwarte II production facility near Saalfeld/Thuringia began to exhibit high rates of leakage. The ageing, inclined mineral seal, covered by a filter layer and a stone deck, was in need of rehabilitation. The site operators opted to update the 15,000m² barrier zone with a more controllable, engineered geosynthetic system.

The rehabilitation works were implemented in several steps. First, the cover and the filter layers were removed. The existing surface of the mineral seal was then prepared. The old mineral seal was turned up, portions were removed, and the site was levelled. Post-compaction works followed and a thin layer of sand was applied to better support and protect the forthcoming geosynthetic components

In the next step, a tie-in drainage channel was added to the mineral seal, an anchor trench was set at the damcrown, and drainage prisms were created. Piping was installed in the prisms and Secudrain® 131 C WD 401 131 C drainage mats were placed from crown to prism.

Bentofix® NSP 10300 a geosynthetic clay liner (GCL) was installed upward on the slope and atop the drainage mats, from the drainage channel to the anchor trench. The tie-in trench was filled with a high-quality clay and compacted. The Bentofix® NSP 10300 a, with its 50cm bentonite impregnated edge, provided a self-sealing overlap zone for enhanced barrier performance. Each roll of GCL was produced in such a way that it could be installed without transverse joints. Bentofix® panel installation took place in the months of August and September 2015, with an average installation rate of more than 1,000m² seal accomplished per day.

A 30cm-thick sand protection layer was installed atop the GCL, followed by a 20cm-thick protection and filter layer made of old filter material. Stone revetment was then constructed as the top layer. The construction sequencing and the materials used created a consistent, controlled, high-quality barrier. The geosynthetic system extended 600m in length (approx. 8m below the crown). The slope angle was 1:2.8.

The geosynthetics selected for the site enabled a consistent seal quality and efficient installation without interfering with the existing dam geometry. Additionally, geosynthetics saved the site from what would have been a costly, labor-intensive 50cm-thick mineral seal installation. By avoiding that, the site saved on construction time and material costs

and transport. The geosynthetic seal costs less and was installed far quicker, while simultaneously providing more dependable, long-term performance.

Because the pump storage operation places stress on the barrier system, quality assurance in the construction was of high importance. The strict quality system associated with landfill construction governed the site works. A GCL installation speciality company (ENIG GmbH) contributed to the project. Local construction supervision and an additional expert were also present at all times. With these experienced professionals on site, compliance with Bentofix® installation instructions was assured from delivery to temporary storage to installation and covering placement. Numerous samples were taken to ensure compliance with the characteristic values. Since the basin was commissioned again in October 2015, only a small amount of measurable leachate has been detected, and that was in the area of a gasket, which can be controlled with geosynthetics. All project parameters and targets were exceeded.



For more information visit www.naue.com or www.bentofix.com

A Reinforced Earth Embankment for a New Sanitary Landfill – Italy



During 2016, extension works were carried out on the landfill in Corinaldo, an area located in the hamlet of the municipality of Corinaldo (Ancona).

Due to an increase in the production of municipal waste, the landfill site, covering a total area of approximately 157,000m² by a total volume of 2.5 million m³ of new waste, had to be extended.

The work was divided into three specific lots.

In order to obtain the volumes needed for the placing of the waste in the first lot, it was decided to build a 27m high reinforced soil bank with a front of around 300m in the south-eastern part of lot 1.

In some places the artificial barrier has a 70m footprint, with 45° embankment slopes, both inside and outside the site.

During the design phase, it was decided not to use wire mesh formwork panelling on the face, but to use metal panels that could be removed once the reinforced layer was completed.

The geogrids used to make the embankment are knitted in high tenacity polyester fibre (e.g. Xgrid PET-PVC), and have tensile strength levels from 400 kN/m to 35 kN/m.

To stabilise the foundations of the work, the area needed to be reclaimed and geogrids with 400 kN/m strength had to be installed.

Once the embankment was complete, HDPE waterproofing membrane sheets were installed inside it so waste transfer work could begin by the dates established by the municipality.



Further information

For more information visit www.temacorporation.com or www.terrerinforzate.it

PROJECT SPECIFICATION

To provide much needed access to two remote parking lots at Winston Salem State University, a bridge was built that will cross over an existing rail line and connect the lots to the main campus. The owner of the railroad, Norfolk Southern, would not allow the newly built bridge to be accessed until an adjacent abutment that had begun to slough was reinforced. The railroad felt there was a risk that the vibrations caused by passing trains could lead to a shallow plane failure.



Anchor installation with a light hydraulic breaker.

SOLUTION

The Platipus ARGs® (Anchor Reinforced Grid Solution) system was specified by a local geotechnical engineer who was very experienced in the local geology of the Piedmont region. Summit Design and Engineering performed a slope stability analysis and concluded that the depth of failure was approximately 5 – 10 feet deep. The design included a grid pattern of 2 TN PDEA® (Percussive Driven Earth Anchors) being driven to a minimum depth of 15' and tensioned to 2,000 lb. working load. After all the anchors were installed, the slope was covered in a 4" thick, 4"x4" welded wire mesh reinforced concrete face. The load plates and wedge grips were post-tensioned to the concrete face after it had cured.



The slope before anchor installation



After reinforcement using Platipus Anchors

Further Information

For more information visit www.platipus-anchors.com or write to info@platipus-anchors.com

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The International Geosynthetic Society

OBJECTIVES OF THE IGS



The International Geosynthetic 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 online IGS Membership Directory, updated in real time;
- the newsletter, IGS News, published three times per year;
- free electronic issues of Geosynthetic International and Geotextiles & Geomembranes;
- 19 IGS Mini Lecture Series are available online;
- 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 12)!

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Calendar of Events

Event	Location	Date	E-Mail, Website
3 rd Bolivian International Conference on Deep Foundations	Santa Cruz de la Sierra, Bolivia	27-29 Apr 2017	fabiana.viscarra@incotec.cc http://www.cfpbolivia.com/
Transportation Geotechnics and Geoecology – TGG 2017	St. Petersburg, Russia	17 - 19 May 2017	geotech@pgups.ru http://conf-geotech.wixsite/tgg-2017
1 st JTC1 Workshop on Advances in Landslide Understanding	Barcelona, Spain	24 – 26 May 2017	nuria.pinyol@upc.edu http://congress.cimne.com/jtc1
One Day Workshop – Geosynthetics for Slope Stabilization	Ljubljana, Slovenia	01 Jun 2017	scuomo@unisa.it www.wlf4.org/registration/
EurAsia Geotextiles Symposium (EAGS)	Beijing, China (People's Republic)	07 – 08 Jun 2017	http://www.edana.org/education-events/conferences-and-symposia/event-detail/eurasia-geotextiles-symposium-2017
9 ^{ème} édition des JOURNEES AFRICAINES DE LA GEOTECHNIQUE	Lomé , Togo	26 – 29 Jun 2017	info@ctqaafrique.org ; 9jaqinfos@gmail.com ; lnbtp@lnbtp.com
BCRRA 2017 - Tenth International Conference on the Bearing Capacity of Roads, Railways and Airfields.	Athens, Greece	28 - 30 Jun 2017	aloizos@central.ntua.gr http://www.bcrra2017.com/
2 nd International Symposium on Coastal and Offshore Geotechnics (ISCOG 2017) & 2 nd International Conference on Geo-Energy and Geo-Environment (GeGe2017)	Hangzhou, Zhejiang Province, China	5 - 7 Jul 2017	yi_hong@zju.edu.cn
GeoMEast 2017	Sharm El-Sheikh, Egypt	15 - 19 Jul 2017	hanyfarouk808@gmail.com http://www.geomeast2017.org/
PBD-III Vancouver 2017 - The 3 rd International Conference on Performance Based Design in Earthquake Geotechnical Engineering	Vancouver, British Columbia, Canada	16 - 19 Jul 2017	http://pbdiivancouver.com/
2 nd International Symposium on Coupled Phenomena in Environmental Geotechnics (CPEG2)	Leeds, W. Yorks, United Kingdom	06 - 08 Sep 2017	CPEG2@leeds.ac.uk http://tinyurl.com/cpeg2017
Interdisciplinary Geotechnical Forum (incorporating FS-KGEO 2017)	Würzburg, Germany	06 - 08 Sep 2017	http://fachsektionstage-geotechnik.com/
ICSMGE 2017 - 19 th International Conference on Soil Mechanics and Geotechnical Engineering	Seoul, Korea	17 - 21 Sep 2017	secretariat@icsmge2017.org http://www.icsmge2017.org
6. Upper Austrian Geotechnical Day - Geosynthetics	Steyregg, Austria	27 Sep 2017	zaussinger@ibbg.at
GeoAfrica 2017 – 3rd African Regional Conference on Geosynthetics	Marrakech, Morocco	08 – 11 Oct 2017	contact@geoafrica2017.com http://geoafrica2017.com/
2 nd International Conference “Challenges in Geotechnical Engineering” 2017	Kyiv, Ukraine	20 - 23 Nov 2017	info@cgeconf.com http://www.cgeconf.com/en
2 nd International Symposium on Asia Urban GeoEngineering	Changsha, China	24 - 27 Nov 2017	urban_geoeng@163.com http://www.isauq2017.org/
4 th International Symposium on Cone Penetration Testing (CPT'18)	Delft, The Netherlands	21 – 22 Jun 2018	info@cpt18.org http://www.cpt18.org/
9 th European Conference on Numerical Methods in Geotechnical Engineering	Porto, Portugal	25 - 27 Jun 2018	scardoso@fe.up.pt
5 th GeoChina International Conference-Civil Infrastructures Confronting Severe Weathers and Climate Changes: From Failure to Sustainability	Hangzhou - China	23 - 25 Jul 2018	GEOCHINA.ADM@GMAIL.COM http://geochina2018.geoconf.org/
The 7 th International Conference on Unsaturated Soils (UNSAT2018)	Hong Kong, China	03 - 05 Aug 2018	unsat2018@ust.hk http://www.unsat2018.org
11th International Conference on Geosynthetics (11ICG)	Seoul South Korea	16 - 20 Sep 2018	csyoo@skku.edu
7 ICEGE 2019 - International Conference on Earthquake Geotechnical Engineering	Rome, Italy	17 - 20 Jun 2019	agi@associazionegeotecnica.it
ISDCG 2019 – 7 th International Symposium on Deformation Characteristics of Geomaterials	Glasgow, UK	26 – 28 Jun 2019	
ECSMGE 2019 – XVII European Conference on Soil Mechanics and Geotechnical Engineering	Reykjavik, Iceland	01 - 06 Sep 2019	has@road.is http://www.ecsmge-2019.com

Event	Location	Date	E-Mail, Website
XVI Asian Regional Conference on Soil Mechanics and Geotechnical Engineering	Taipei, China	21 - 25 Oct 2019	
XVI Panamerican Conference on Soil Mechanics and Geotechnical Engineering	Cancun, Quintana Roo, Mexico	18 - 22 Nov 2019	support@panamerican2019mexico.com http://panamerican2019mexico.com
Nordic Geotechnical Meeting	Helsinki, Finland	27 - 29 May 2020	leena.korkiala-tanttu@aalto.fi

Note:

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

IGS Conference

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