

IGS NEWS



NEWSLETTER OF THE INTERNATIONAL GEOSYNTHETICS SOCIETY

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

VOLUME 24, NO. 2

July 2008

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Call for Abstracts for 9th International Conference on Geosynthetics

For the 9th International Conference on Geosynthetics (9ICG, Brazil, 23 - 27 May 2010) the Call for Abstracts is open.

Abstracts of individuals shall be uploaded at www.9icg-brazil2010.info before 30 October 2008

Papers may cover any of the topics listed in the full announcement for 9ICG on page 12.

The abstracts are limited to 500 words. According to the regulations by the International Geosynthetics Society, an author can have only one paper with his name as the 1st author (no limit for papers as co-author).

In addition, chapters of the IGS can submit up to 10 papers on "Case Histories of Geosynthetics Engineering Practice" in addition to submissions from individuals.

Abstracts of IGS Chapters shall be uploaded at www.9icg-brazil2010.info before 28 February 2009

President's Corner

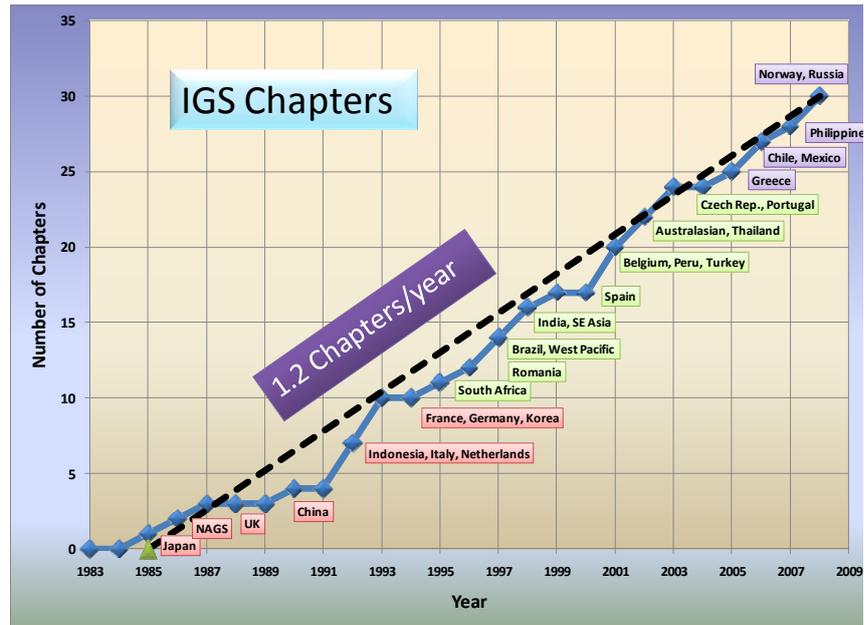


Fumio Tatsuoka

From 16 - 20 June 2008 I participated in the 4th Geosynthetic Asia 2008, in Shanghai, China. In the opening ceremony, I showed the following figure that was prepared by the IGS Vice President Prof. Jorge Zornberg.

This is clearly showing that the IGS has been growing consistently. I also delivered a special lecture entitled "GEOSYNTHETICS ENGINEERING COMBINING TWO ENGINEERING DISCIPLINES", with particular reference to geosynthetic-reinforced soil retaining walls. This is a detailed explanation of the issue discussed in Editorial of the IGS News, Vol. 23, No. 3, November 2007. I emphasized, in particular, the following two points:

- With geosynthetic reinforcement, soil and geosynthetic-reinforced soil structures, creep is not a mechanical degrading phenomenon, but it is simply an elasto - visco-



Development of IGS Chapters

plastic response of a material or a system. With geosynthetic reinforcement, the tensile rupture strength at a given strain rate does not decrease by creep loading history and therefore it does not decrease with time unless chemical and/or biological degrading effects are significant.

- As the backfill exhibits creep deformation, the tensile load in the polymer reinforcement members that are arranged in the backfill

may decrease with time unless the safety factor of the geosynthetic-reinforced soil structure is unusually low.

The lecture note and the slides of the presentation as PDF-file can be downloaded from:

<http://www.rs.noda.tus.ac.jp/soil/index.htm>

Fumio Tatsuoka
IGS President

Results of IGS Council Election Term 2008 to 2012

A total of 11 candidates ran for eight council positions on the IGS Council for the 2008 to 2012 term. The election was held by electronic ballot in May 2008 with about 480 votes cast (25 % of the membership). Congratulations to the new and re-elected Council members:

Dennes T. Bergado (Thailand)



Abdelmalek Bouazza (Australia)



Pierpaolo Fantini (Italy)



Han-Yong Jeon (Korea)



Russell Jones (UK)



Jiro Kuwano (Japan)



Mike Sadlier (Australia)



Martin Ziegler (Germany)



Report of the IGS Officers Meeting Shanghai, 16 June 2008



Peter E. Stevenson

President Tatsuoka called the meeting to order at 0900. Present were President F. Tatsuoka, Vice President J. Zornberg, Past President D. Cazzuffi, Treasurer J. Cowland, Secretary P. Stevenson, Secretariat Manager R. Stevenson. Officers, committee and council minutes from GeoAmericas 2008 (Cancun) were reviewed. Under matters arising it was noted that Prof Tang is now Secretary of CCIIGS (Chinese Chapter of the IGS). The IGS website will be amended accordingly.

The Secretary reported on various items including the several award/recognition programs underway in 2008 (IGS Awards, Student Awards, Corporate Member Recognition, Council Service Recognition, and Chapter nominations for the IGS Achievement Award). It was noted that the GeoSynthetics Asia 2008 conference opening ceremony would include the presentation of five Student Awards,

three Council Service Recognition awards, two Chapter nominated IGS Achievement Awards and two Corporate Member Recognition Awards. Each of these programs will be repeated at EuroGeo4 in Edinburgh following the IGS Awards ceremony. Past President Cazzuffi reported that the IGS may be able to reach past council member Heinrich Schneider in order to present the Council Service recognition award. Two nominations have been received for the Giroud Lecture, the lecturer will be chosen by the newly formed council in Edinburgh. The lecture will be presented to the 9th ICG in May 2010.

A discussion was held concerning chapters that are delinquent in reporting to and in communicating with the IGS. Vice President Zornberg was tasked with drafting a policy to encompass withholding of chapter rebates and other chapter benefits and incentives from inactive chapters, and consideration of the possibility of revoking the chapter's approval in the case of a completely inactive chapter. The election or reelection of eight members to the council was noted. The initial meeting of the new council will be held in Edinburgh on September 7, 2008. The new council members are welcome to attend the IGS Committee meetings which will be held on September 6, 2008. The July issue

of the IGS News in its preparation. It was agreed that the November issue should be the main celebratory issue for the 25th Anniversary of the IGS.

The Treasurer reported that the IGS finances remained in good condition.

Committees: The Asian Activities Committee is scheduled to meet at 1500 on June 16, 2008 immediately following the officers meeting. The primary task of the AAC is to recommend the venue for GeoSynthetics Asia 2012. The committee's recommendation will be approved by council in Edinburgh. The International Promotion Committee for the 9th ICG (Brazil) plans to meet on Wednesday June 18, 2008 at 1300. The IGS Awards Committee plans to meet in Shanghai, on Wednesday June 18, 2008 at 1600. Minutes of these meetings will be kept and published by the chairmen as appropriate.

Conferences: Planning and status of several IGS events were reviewed and all indications are that EuroGeo4 in Edinburgh, September 2008, GeoAfrica 2009 in Capetown and the 9th ICG in Guarujá, Brazil in 2010 are all in good order.

*reported by
Pete Stevenson, IGS Secretary*

In Memoriam Jim Paul



The geosynthetics industry lost a true gentleman on 25 June 2008 when Jim Paul, former CEO of Tensar International, passed away suddenly aged 59.

He joined Tensar in 1982 (at that time trading as Netlon Ltd) and during his appointment in several senior positions he became a well liked, respected and indispensable figurehead within the company.

Jim's expertise was instrumental in positioning Tensar as the global market leader within its field and in 2004 he assumed the role of CEO. In the same year received a coveted industry accolade from IGS for his dedication and deliverance during his service, which he deservingly received with great pride.

Jim obtained his civil engineering degree from the University of Strathclyde. Where amongst others he was taught by Professor Alan McGown, with whom he became a

lifelong friend. Jim's career experience was in general civil engineering design and construction with 4 years in a local authority, 2 years with contractor and 8 years with consulting engineers.

On joining Netlon Ltd he began as the Area Civil Engineer for Scotland and Ireland and later added Scandinavia to his area of responsibility. Jim's potential was quickly realised by the company, and he went on to become the UK Sales Manager, then commercial Director where he saw the company through a successful buy-out from the owner Dr Brian Mercer. Jim eventually went on to become CEO of what was by that time re-named The Tensar Group. In 2006 he steered the company through a highly successful sale to US 'sister company' Tensar Corporation, after which he decided to take an early retirement.

Jim was a great supporter and advocate of the IGS. After serving on the UK committee for some time he became chairman of the UK Chapter from 1993 to 1995 and following that he was elected to IGS Council from 1996 to 2004., while acting as chair of the Education Committee (1996 - 2002) and the European Activity Committee (2002 - 2004). Jim's service to IGS was valued greatly by his peers.

As an indication of how seriously Jim took his commitment to the geosynthetic industry, was awarded an MPhil in 1994 while a Director of Tensar for a dissertation on "The Development, Testing & Reinforcement Applications of Geogrids".

Jim had a personality and way of working that endeared him to both colleagues and competitors in the field. He was extremely well respected in the industry and was considered to be a 'gentleman' by those that had the privilege to work for him or with him.

"It is difficult to do Jim justice on both a professional and personal level in so few words," says Tensar International's Chief Engineer and past UK Chapter Chairman, Chris Jenner, who has worked alongside Jim for many years. "Aside from being a pleasure to work with, he was a geotechnical mastermind and his passion for the profession was evident in everything he put his mind to".

The UK Chapter is currently investigating a way to commemorate Jim's contribution to IGS and will announce the tribute at EuroGeo4 in Edinburgh.

Russell Jones, IGS UK Chapter Chairman

Conference Reports

International Symposium on Geotechnical Engineering, Ground Improvement and Geosynthetics for Human Security and Environmental Preservation 6 - 7 December 2007, Bangkok, Thailand

The International Symposium on Geotechnical Engineering, Ground Improvement and Geosynthetics for Human Security and Environmental Preservation was held on 6 to 7 December 2007 at Miracle Grand Convention Hotel, Bangkok, Thai-

land. Details of the topics include: Design and Applications of Geosynthetics, Soil Improvement, New Challenge in Dam Engineering, Slope and Embankment Reinforcement, Erosion Control, Tsunami Reconstruction, etc. The

Symposium was officially opened by Dr. Monthip Sriratana Tabucanon, Director-General of the Department of Environmental Quality and Promotion of the Ministry of Natural Resources and Environment (MONRE).



Opening Ceremony on 6 December 2007 of the International Symposium on Geotechnical Engineering, Ground Improvement and Geosynthetics for Human Security and Environmental Preservation

The two-day Symposium had an impressive line up of speakers including Prof. Fumio Tatsuoka of Tokyo University of Science and President of the International Geosynthetics Society (IGS) as well as Prof. Pedro Pinto of the University of Coimbra, Portugal and President of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE). There were

Sweden, Taiwan, Turkey, and, of course, Thailand. In addition, there were 13 Exhibitors and 12 Sponsors.

This Symposium served as a forum for the geotechnical and geosynthetic professionals as a whole, and, in particular those who are involved in disaster prevention, mitigation, rehabilitation, and construction

more than 120 speakers, session chairs, delegates, exhibitors, and sponsors from 23 countries including Australia, Bangladesh, China, Germany, Greece, Indonesia, Hong Kong, Japan, India, Philippines, Singapore, U.S.A., U.K., Russia, Switzerland,



Ribbon-cutting for the Exhibition Booths

works for human security. It is our fervent hope that this Symposium will encourage research activities as well as promote environmental preservations in Thailand. Already, geosynthetics are being used for erosion control along Chao Phraya River banks as well as in the shorelines of the Gulf of Thailand.

*Reported by
D. Bergado, IGS Thailand President*

Giroud Gives 44th ASCE Terzaghi Lecture Geo-Congress 2008, 9 - 12 March 2008, New Orleans, USA

In front of a packed house of over 500 attendees, Dr. J.P. Giroud, Past President of the IGS, delivered the American Society of Civil Engineers (ASCE) 44th Terzaghi Lecture. The lecture was delivered on March 11, at GeoCongress'08, the 2008 Annual Meeting of the ASCE Geo-Institute (G-I) in New Orleans, Louisiana, USA.

The Terzaghi Lecture has been established in recognition of the pioneering work of Karl Terzaghi (1883-1963) who is recognized as the father of modern geotechnical

engineering. The Terzaghi lecture has been generally considered as the ASCE's top honor in geotechnical engineering since Dr. Ralph Peck gave the first Terzaghi Lecture in 1963. G-I President Art Hoffman opened the proceedings, noting that Dr. Giroud was selected to give the lecture "In recognition of your pioneering work and leadership in the development of the field of geosynthetics engineering and associated contributions to civil and geotechnical engineering."

Providing a bridge back to one of Terzaghi's

seminal contributions to the geotechnical field, Dr. Giroud then delivered his lecture on "Filter Criteria", presenting a coherent and unified theory of filtration applicable to both granular and geotextile filters. The lecture showed that, due



Dr. Giroud presenting the Karl Terzaghi Lecture



ASCE Past President Dr. William Marcuson (right) presents Dr. Giroud the plaque for the Karl Terzaghi Lecture

to differences in geometry between granular and geotextile filters, the formulation of criteria must be different for these two types of filters and that simply adapting the well-known Terzaghi criteria for granular filters

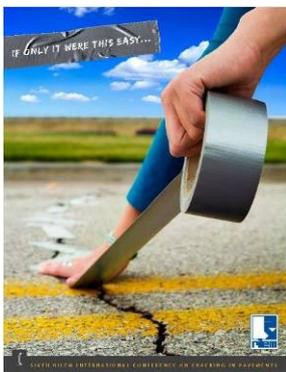
to geotextile filters is not correct and can lead to unsafe filter design. The lecture also showed that criteria for granular filters can be improved using developments made for geotextile filters, thereby leading to safer designs for granular filters. Dr. Giroud's lecture showed that the development of filter criteria for geotextile filters, which started as technology transfer from soil mechanics to geosynthetic engineering, has now resulted in technology transfer

from geosynthetic engineering back to soil mechanics. At the conclusion of the lecture, the packed auditorium gave Dr. Giroud a standing ovation in recognition of his outstanding presentation and ASCE Past President and former Terzaghi lecturer Dr. William Marcuson presented Dr. Giroud with the plaque and honorarium commemorating the lecture. The evening concluded with a gala dinner honoring Dr. Giroud and his

wife that was attended by the G-I Board of Governors, eight former Terzaghi lecturers, the French Consul General for the southern United States, and other dignitaries. Dr. Giroud's lecture will be published in a future volume of the ASCE Journal of Geotechnical and Geoenvironmental Engineering.

*Reported by
IGS member Ed Kavazanjian*

Sixth RILEM Int. Conf. on Cracking in Pavements 15 - 19 June 2008, Chicago, USA



Cover of RILEM brochure



David Lippert of the Illinois Department of Transportation welcomes attendees to Chicago.



Co-Chair Andreas Loizos and Chair Imad Al-Qadi enjoying the RILEM banquet at the Shedd Aquarium

The Sixth RILEM International Conference on Cracking in Pavements convened from June 15 - 19 in Chicago, Illinois. The conference was truly an international one with nearly 200 attendees from 29 countries. This year marked the first time the conference was held in the United States, and the attendees enjoyed various sights of Chicago, including a private reception and dinner at the Shedd Aquarium.

IGS member Imad Al-Qadi, Director of the Illinois Center for Transportation and Founder Professor at the University of Illinois at Urbana-Champaign, served as Conference Chair. Tom Scarpas and Andreas Loizos served as co-chairs. David Lippert of the Illinois Department of Transportation provided welcoming remarks for the conference, and the keynote address, "Concrete Cracking: Measuring,

Modeling, and Mitigating" was given by Surendra P. Shah of Northwestern University. The conference included the presentation of 89 papers from more than 20 countries.

*Reported by
Leslie Sweet Myrick*

Geo-Environmental Engineering 2008 12-14 June 2008, Kyoto, Japan

Geo-Environmental Engineering 2008 (GEE 2008, or 8th Japan-Korea-France-Canada Joint Seminar on Geoenvironmental Engineering) was held on June 12-14, 2008 at the Clock Tower Centennial International Hall, Kyoto University, Kyoto, Japan. The Conference was jointly organized by Kyoto University, Japan, Seoul National University, Korea Institute of Construction

Technology, Korea, University Joseph Fourier of France, and the University of British Columbia Canada. It was held under the auspices of the International Geosynthetics Society (IGS) and the Japanese Geotechnical Society (JGS), and supported by the Society for Materials Science, Japan (JSMS).

Participants

78 full registrants from 13 countries, including 2 invited plenary speakers, participated in the conference. 45 persons were invited to contribute oral presentations.

Conference papers and proceedings

The 45 accepted papers were included in the Conference Proceed-



Participants of GEE 2008

ings. PDF files of these papers are also available on the IGS web-site.

Conference program

Presentation of the oral papers and discussion were divided into seven technical sessions.

Technical Sessions

1. Characterization, Fate and Transport of Contaminants (Chaired by Prof. Catharine Mulligan of Concordia University, Canada)
2. Geotechnics of Waste Re-use/Recycle (Chaired by Dr. Ha Ik Chung of the Korea Institute of Construction and Technology, Korea)
3. Natural Hazards, Mitigation in Construction Works (Chaired by Dr. Wan Zuhairi Wan Yaacob of University Kebangsaan, Malaysia)
4. Barrier, Geosynthetics in Geoenvironmental Engineering (Chaired by Prof. Takeshi Katsumi of Kyoto University, Japan)
5. Remediation of Soil and Groundwater Contamination (1) (Chaired by Prof. Loretta Li of the University of British Columbia, Canada)
6. Remediation of Soil and Groundwater Contamination (2) (Chaired by Prof. Jean-Pierre Gourc of the University Joseph Fourier, Grenoble, France))

7. Management of Landfill (Chaired by Prof. Junbom Park of Seoul National University, Korea)

A special session entitled "Management of waste and contaminated sites in Asia" was held with the collaboration of the Asian Technical Committee (ATC17) of ISSMGE during the late afternoon of 12 June. The contributions not only included reports on laboratory tests, theoretical modeling and numerical analyses, but also covered field monitoring results, practical applications and Asian geo-environmental codes and standards. Overall the program was comprehensive and interesting.

A one-day site excursion was conducted to visit a newly engineered

waste landfill called "Clean Center Shiga", as well as Mt. Hiei.

Special Events

Five Best Young Presenter awards were selected by the organizers. These awards were presented to the recipients at the closing session. The recipients and their topics were as follows:

1. Mr. Giancarlo Flores (Kyoto University): Measuring saturation to evaluate LNAPL migration under fluctuating groundwater conditions in a porous subsurface
2. Mr. Sungsu Rhee (Seoul National University): A 2-dimensional experiment on the partitioning tracer test for detecting and quantification of petroleum contamination in aquifer
3. Mr. Yasutaka Watanabe (Ibaraki University): Degradation mechanism of drinking water sludge by interaction with water
4. Mr. Hyunjin Shin (Seoul National University): Assessment of Pb stabilization techniques in Pb-contaminated soils from a small arms firing range in South Korea
5. Mr. Naoto Takeuchi (Kyoto University): Deformability and hydraulic barrier performance of fiber-reinforced cement treated clay subjected to the cyclic loading

The first evening was dedicated to a reception at the International Hall in Kyoto University. A farewell Suki-yaki party was also held at a Japanese restaurant on the final evening. Participants enjoyed wonderful food and drinks, together with the infor-



Excursion at GEE 2008

mative technical sessions, lively discussion and useful social interaction.

Next Conference

Geo-Environmental Engineering
2009 (GEE 2009, or 9th Joint Semi-

nar on Geoenvironmental Engineering) will be held in the spring of 2009 at the University of British Columbia in Vancouver, Canada. Details will follow.

*Reported by
Masashi Kamon
Chairman of the GEE2008 organizing committee, IGS Council member*

Geosynthetics Asia 2008 17 - 20 June 2008, Shanghai, China



Geosynthetics Asia 2008, the 4th Asian Regional Conference on Geosynthetics, took place at Shanghai Exhibition Center in Shanghai, China, from June 17 to 20, 2008. Geosynthetics Asia 2008 was organized by the Chinese Chapter of International Geosynthetics Society (CCIGS) and the Chinese Technical Association on Geosynthetics (CTAG) with the support of the Shanghai Investigation Design and Research Institute (SIDRI), Zhejiang University, and Shanghai Hejie Tech & Trading Co. Ltd., under the auspices of the International Geosynthetics Society (IGS) and the Chinese Hydraulic Engineering Society (CHES). Although some Chinese authors cannot attend the conference for the big earthquake and the heavy flooding in south of China, over 200 participants from 28 countries and regions (Australia, Brazil, Canada, Chile, China, France, Germany, Greece, Hong Kong China, India, Indonesia, Iran, Italy, Japan, Jordan, Korea, Malaysia, New Zealand, Philippine, Saudi Arabia, Singapore,

Taiwan, Thailand, Turkey, United Arab Emirates, United Kingdom, USA, Vietnam et al.) attended the conference. Over 60 young engineers, scholars and students attended the training course. Over 66 companies from 14 countries and regions attended the exhibition. Under the conference theme "Geosynthetics in Civil and Environmental Engineering" a total of 238 abstracts were submitted and 157 papers were collected in the Proceedings of the 4th Asian Regional Conference on Geosynthetics, published by Zhejiang University Press and Springer. The topics of the research papers were related to fundamental principles and properties of geosynthetics, testing and test standards, physical tests and centrifuge tests, reinforcement, soil improvement and ground improvement, filter and drainage characteristics, landfill engineering, geosystem usage, transportation applications, geosynthetics - pile support systems and geocell usage, hydraulic applications, ecological techniques and case histories.

Highlights of the technical program included a series of outstanding special lecture delivered by Prof. F. Tatsuoka, Mercer Lecture by Prof. Ennio. M. Palmeira, three keynote lectures delivered by Prof. N. Yasufuku, Prof. J.P. Gourc and Dr. D. Cazzuffi, respectively, and eight invited lectures delivered by Mr. H.B.

Chen, Prof. C.G. Bao, Dr. S.H. Chew, Prof. E.C. Shin, Prof. Y.M. Chen, Prof. D. Leshchinsky, Prof. D. T. Bergado and Mr. Q.J. Fan, respectively.

The Forum "Geosynthetics in Environmental Engineering" around the topic "National code in different countries about landfill technology for municipal solid wastes and hazardous solid wastes" was organized by Prof. M. Kamon and Dr. B. Zhu, with panel members, Prof. J.G. Zornberg, Prof. Ennio M. Palmeira, Prof. D.T. Bergado, Prof. J.P. Gourc, Mr J. Cowland and Prof. S.S. Kim.

The program also included a presentation of several IGS Awards, including IGS Service Award, IGS Achievement Award and IGS Student Award.

Two big projects, Shanghai Laogang Landfill and Shanghai Yangshan Deep Harbor were selected for Technical Visits.

IGS Officers Meeting, IGS Asian Activities Committee Meeting, IGS Awards Committee Meeting, and International Promotion Committee of the 9ICG were hold. IGS Asian Activities Committee Meeting decided that Geosynthetics Asia 2012 will be held in Bangkok, Thailand.

*Reported by
Xiao-Wu Tang
Zhejiang University*



Prof. F. Tatsuoka, Prof. Y.M. Chen, Prof. M. Kamon, Mr. J. Cowland, Prof. J.G. Zornberg, Prof. G.X. Li, Mr. P.E. Stevenson, Dr. D.A. Cazzuffi during the opening ceremony



Prof. G.X. Li, Chairman of conference, announced the opening of Geosynthetics Asia 2008



Prof. C.G. Bao and Prof. M. Kamon received the IGS Service Award from IGS President F. Tatsuoka and IGS Secretary P. Stevenson



Prof. E.C. Shin, Prof. C.G. Bao, Prof. T. Akagi received the IGS Council Recognition Award from IGS Past-President D. Cazzuffi and IGS Secretary P. Stevenson



Prof. C.G. Bao and Prof. T. Akagi receiving the IGS Achievement Award (nominated by the IGS Chapters) from IGS Secretary P. Stevenson



IGS Student Award presented by IGS Vice-President J. Zornberg and IGS Secretary P. Stevenson to J.Saowapakpiboon (Thailand), S. Zhang (China), K. Hong (Korea), M. Ghosh (India), H. Aizawa (Japan)



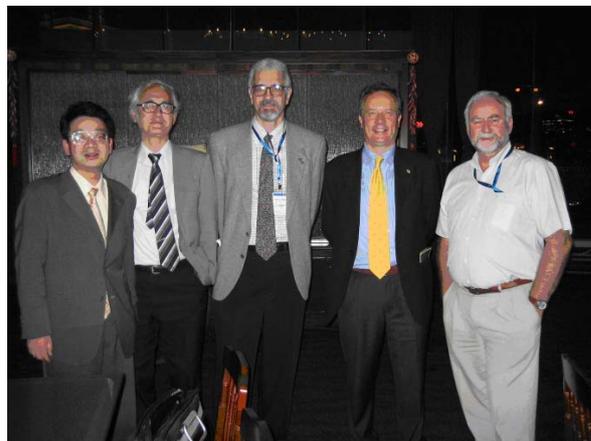
The exhibition hall



IGS booth in the exhibition



Prof. M. Kamon, Dr. B. Zhu, Prof. D.T. Bergado, Mr J. Cowland, Prof. J.P. Gourc, Prof. S.S. Kim, Prof. Ennio M. Palmeira and Prof. J.G. Zornberg organized the forum "Geosynthetics in Environmental Engineering"



Prof. X.W. Tang, Prof. F. Tatsuoka, Prof. Ennio M. Palmeira, Dr. D.A. Cazzuffi and Mr. M. Sadlier attended the CCIIGS Banquet

MERCEA'08

8 - 11 July 2008, Reggio Calabria, Italy



The 2008 Seismic Engineering International Conference commemorating the 1908 Messina and Reggio Calabria Earthquake MERCEA'08 was held on 8-11 July 2008 in Altiumara Resort, Villa S. Giovanni (RC), Italy. The Conference topics were: Site characterisation, microzonation and site effects; Soil liquefaction and liquefaction countermeasures; Slopes, embankments, dams and waste fills; Foundations, and soil-structure interaction; Earth retaining structures and geosynthetics; Codes and guidelines; Structural engineering; Emerging technologies; Numerical methods; Passive protection devices and seismic isolation; Advanced technologies in construction and retrofit of structures; Seismic risk; Stochastic methods; Structural safety and reliability; Structural dynamics; Urban planning and policies for seismic risk reduction.

The Conference was jointly organized by the University of Reggio Calabria; the University of Messina; the University of Catania; the University of Palermo; ENEA (Italian

National Agency for New Technologies, Energy and the Environment); C.I.Di.S (Centro Interuniversitario di Dinamica Strutturale Teorica e Sperimentale) and under the auspices of: AGI (Associazione Geotecnica Italiana-Italian Geotechnical Society), ASSISI (Anti-Seismic System International Society); Calabria Regional Council; IGS (International Geosynthetics Society) and GLIS (Isolation and other anti-seismic design strategies).



A group of organizers of Mercea'08: IGS Member Nicola Moraci, IGS Council Member Michele Maugeri and IGS Member Paolo Carrubba (left to right)

More than 260 participants attended to the Conference, coming from about 30 countries.

The conference was divided in: invited lectures, panel lectures, special sessions and parallel sessions. The invited lectures were 18 and the presenters were: S. Tobriner (University of California, Berkeley); K. Hishihara (Chuo University Tokyo); I.M. Idriss (University of California, Davis); M. Ghafory-Ashtiany, IIES Teheran); P.D. Spanos (Rice University); A. Astaneh-ASL (University of California, Berkeley); N.N. Ambraseys (Imperial College, London); M. Nicoletti, L. Luzi, R. Paolucci (Italy); M. Calvi (University of Pavia and Eucentre); E. Cosenza (University of Naples Federico II); G. Bouckovalas (National Technical University of Athens); K. Stokoe (University of Texas); F. Mazzolani (University of Naples Federico II); L. Decanini (University of Rome La Sapienza); D.M. Wood (University of Bristol); M. Maugeri (University of Catania); M. Di Paola (University of Palermo) and R. Bathurst (Queen's University-RMC).

The panel lectures were 4 and focused on Microzonation (Presenters: A. Ansal; A. Anastasiadis; F. Santucci; J.P. Stewart), Siting (S. Foti; G. Lanzo; S. Rampello; F. Salgado), Foundations and Soil Structure Interaction (G. Mylonakis; V. Caputo; K. Pitilakis; A.L. Simonelli), Retaining Structures and

Geosynthetics (S. Aversa; G. Milonakis; P. Carrubba; E. Guler).



Richard Bathurst presenting his keynote lecture

The special sessions were 4 and focused on Steel Shear Walls for Seismic Applications; Understanding the Past, Engineering the Future; Seismic Retrofitting for the Mediterranean Basin; Structural Control and Monitoring. 35 papers were presented.

The parallel sessions were 12 and focused on Structural engineering; Passive protection devices; Liquefaction, Structural dynamics; Site characterization and site effects; Slopes and dams; Advanced technologies in construction and retrofit; Structural safety and reliability; Re-

taining structures and geosynthetics; Urban planning and policies for seismic risk reduction; Foundations and soil-structure interaction; Seismic risk.

More than 200 papers were presented.

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

*Reported by
Nicola Moraci,
IGS Italian Chapter Secretary*

Announcements of Conferences under Auspices of IGS

EuroGeo 4, 7 - 10 September 2008 Edinburgh, Scotland, United Kingdom



EuroGeo4, the 4th European Geosynthetics Conference, will be held at the Edinburgh Conference Centre, Heriot-Watt University, Scotland, UK, from 7 to 10 September 2008. The Conference is being organized by the UK IGS Chapter under the auspices of the IGS and is supported by the British Geotechnical Association, Scottish Geotechnical Group, Ground Forum and the Engineering Group of the Geological Society.



The theme of the conference is the use of geosynthetics in civil engineering applications and it promises to be the most successful European Geosynthetics Conference yet, with a record number of papers (greater

than 200) having been submitted and accepted. Session themes and the technical programme are now listed on the conference website at www.eurogeo4.org so you can plan which sessions you want to attend now.

Delegate registration is open via the conference website. The early bird registration deadline has recently been extended until the end of July 2008. This deadline will not be extended again, so please visit the website soon to register and take advantage of the considerable savings available.

Three keynote lectures will be given, one at the beginning of each day. Keynote lecturers are Prof. Colin Jones (UK), Natalie Touze-Foltz (France) and Grace Hsuan (USA). All have consulted widely in preparing their keynotes and have a number of co-authors for their papers.

The conference also plays host to the Mercer Lecture, one of the most prestigious in the geosynthetics industry calendar. We are very lucky to have Prof Ennio Palmeira presenting on 'Modelled and actual behaviour of geosynthetics in some geotechnical applications'. This lecture is open to delegates and none delegates alike, aiming to introduce the concept of the use of

geosynthetics in civil engineering to a wider audience.



Thirty six exhibitors will be present throughout the duration of the conference and three one day training courses have been developed to provide education to those not familiar with the wide ranging application of geosynthetics in civil engineering. The training courses are being run in conjunction with Thomas Telford and can be booked directly with Thomas Telford at www.tttrain.co.uk. Note that these training courses are separate from the conference and need to be booked in advance.

The conference organising committee is looking forward to welcoming all delegates and exhibitors to Edinburgh in September 2008 for an interesting, informative and exciting conference.

*Reported by
Derek Smith, Chair of the
EuroGeo 4 Organizing Committee*

GeoAfrica 2009, 2 - 4 September 2009 Cape Town, South Africa



GeoAfrica 2009 will present a forum for consulting engineers, manufacturers, installers and academics to exchange information about current and potential applications for geosynthetics in Africa.

This will be the first conference to be held under the auspices of the IGS and in association with the Geotechnical Division of the South African Institution of Civil Engineering (SAICE) in the region, and will present an opportunity to meet the top geosynthetics specialists and prospects on the continent. Every visitor to the exhibition floor will be a potential customer, and professionals seeking geosynthetic solutions to their challenges will attend each

technical session. This will be the largest gathering of geosynthetics professionals seen in Africa to date.

Exhibition

The conference will include an exhibition for the specification and trade of geosynthetic products and technology to users throughout Africa, as well as those wishing to make an entry into the continent.

Details of the conference are currently being finalized. If you would like to participate in this major event and receive an invitation to submit a technical paper, please send an e-mail with your contact details to Leslie Ferreira at

lesley@cebisaconferences.co.za and we will put you on the conference mailing list.

Language

English is the official language of the conference

Important Dates

Abstracts submission deadline:
30 September 2008

Abstracts are limited to 350 words. Each author will be asked to identify the general topic of his/her paper from the following list: separation, filtration, barriers, drainage, reinforcement and erosion control. Abstracts should be submitted via the conference web site

www.GeoAfrica2009.org in the Submission/Review Center. Deadline for acceptance of abstracts: 30 October 2008
Receipt of Completed Papers: 10 December 2008
Receipt of Final Papers: 15 April 2009
Exhibition Stand Sales Closes: 31 July 2009; there are only 30 stands available

For more Information

Conference & Exhibition & Secretariat: Lesley Ferreira, Email: lesley@cebisaconferences.co.za
Tel: +27 21 559 4574
Fax: +27 21 559 4574/086 692 7220
Web site: www.gigsa.org

9th International Conference on Geosynthetics – 9ICG Guarujá, Brazil, 23 - 27 May 2010



The 9ICG is being organized by IGS Brasil, the Brazilian Chapter of the International Geosynthetics Society, and ABMS, the Brazilian Association for Soil Mechanics and Geotechnical Engineering, under the auspices of IGS, the International Geosynthetics Society (IGS) and supported by ABINT, the Brazilian Association of Nonwoven and Technical Textiles Industries.

Conference Aims

The aims of this conference are to offer:

- an outstanding opportunity of exchange knowledge and experiences between geosynthetic researchers, consultants, owners, geotechnical and environmental engineers, geosynthetic manufacturers, project regulators, contractors and academics through discussion about the main geosynthetics themes, which comprises keynote lectures, paper presentations and debates.
- an overview of new technologies and innovations, by offering a large forum to engineers and researchers.

The conference will be conducted at high scientific and technical levels, and will present applications information to match the expectations of all participants.

Technical Program

The conference will highlight the MAIN topics in the geosynthetic

industry and applications. The traditional Giroud Lecture will be delivered in a special session. Keynote lectures and selected papers will be presented on the main themes, which are:

- Case Histories
- Design Approaches and Numerical Solutions
- Drainage and Filtration
- Durability and Long Term Performance
- Geosynthetics in Agriculture and Aquaculture
- Geosynthetics in Dynamic Applications
- Geosynthetics in Environmental Applications
- Geosynthetics in Highways and Railways
- Geosynthetics in Hydraulic Applications
- Geosynthetics in Mining Applications

- Geosynthetic Properties
- Innovative Uses and Solutions
- New Geosynthetic Products
- Reinforced Walls and Slopes
- Reinforcement of Embankments and Unpaved Roads
- Soil-Geosynthetic Interaction

Call for Abstracts

Papers may cover any of the subjects described in the Technical Program above and the abstracts are limited to 500 words. According to the regulations by the International Geosynthetic Society, an author can have only one paper with his name as the 1st author (no limit for papers as co-author). In addition, chapters of the IGS can submit up to 10 papers on "Case Histories of Geosynthetic Engineering Practice" in addition to submissions from individuals.

Abstracts from individuals shall be uploaded before 30 October 2008

Abstracts from IGS Chapters shall be uploaded before 28 February 2009.

Selection of Abstracts

All the submitted abstracts will be reviewed by the International Paper

Selection Committee of invited international experts on all subjects covered by the Conference. The abstracts must be sufficiently detailed to allow the experts to evaluate the scientific and technical contents of the proposed paper, especially the relevance of the results obtained and the contribution they make towards advances in the application of geosynthetics. Papers must be original and must not be of commercial nature.

Exhibition

An International Exhibition will be opened to the conference delegates and visitors to show the latest technological innovations and services provided by the geosynthetics industry. The conference venue has outstanding exhibition facilities, with 2,000 m² of available space for about eighty exhibitors (manufacturers, laboratories, consultants, contractors, suppliers, installers, agencies, project offices, and all organizations related to geosynthetics). Detailed information for both the 9IGC and the international exhibition will be available after May, 1st, 2008, at the conference website: www.9icg-brazil2010.info

Venue

The 9ICG will be held at Sofitel Jequitimar Hotel in Guarujá, Brazil. Guarujá is a beautiful coastal town about 90km from the city of Sao Paulo, which is the biggest metropolis in South America and offers a large variety of cultural, touristic and gastronomic attractions.

Language

English will be the official language of the Conference.

Important Deadlines

Abstracts submission:

October 30th 2008

Acceptance of abstracts:

November 30th 2008

Papers submission for individuals:

May 31st 2009

Papers submission for IGS Chapters:

July 31st 2009

Conference Secretariat

9ICG - Brazil 2010

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News from the IGS Chapters

David J. Elton Assumes Presidency of North American Geosynthetic Society (NAGS)

Dr. David J. Elton, P.E., became President of the North American Geosynthetic Society (NAGS) at the biennial meeting of NAGS held during the 1st Pan American Geosynthetic Conference in Cancun, Mexico. Dr. Elton received the office from Dr. Grace Hsuan, who served as President of the organization for two years.

Dr. Elton is a professor of Civil Engineering at Auburn University, in Auburn, AL, specializing in geosynthetics and geotechnical engineering. Dr. Elton teaches courses in geosynthetics, landfills and earth structures involving geosynthetics. He organized and taught at each of the five yearly Industrial Fabrics Association International / National

Science Foundation Professor Training Courses for Geosynthetics. NAGS provides leadership in advancing the education and research of geosynthetics through conferences, short courses, research sponsorship and information dispersal. NAGS has 200 members in the US and Canada, and is the oldest and largest chapter of the International Geosynthetic Society.



Newly installed President, Dr. Elton (r), receives the honorary gavel from departing NAGS President Dr. Hsuan.

Dr. Elton, as president, is joined by Dean Sandri, president - elect, Robert Mackey, treasurer, and L. David Suits, executive director. Dr. Hsuan assumes the role of Immediate Past President. A board of seven vice presidents completes the organization. North American Geosynthetic Society is the U.S. and Canadian Chapter of the International Geosynthetic Society.

NAGS offers many benefits to members, including

- Membership in the

International Geosynthetic Society.

- Free on-line subscriptions to "Geotextiles and Geomembranes," and "Geosynthetic International" Journals; including access to all back issues.
- New members: free one year subscription to Geosynthetic, magazine, formerly known as GFR, the industry trade magazine.
- Reduced subscription rate to "Geosynthetic" after the first year free subscription for North American Members.
- Reduced registration rates to International and Regional Geosynthetic Conferences and Seminars.

More information is at www.nags-igs.org.

GIGSA – The South African Chapter of the IGS President's Report, June 2008

In late November 2006 the two year term of office for me, Garth James, as President of GIGSA started, taking over the function from the outgoing President Peter Legg. Many thanks for his support and his selfless attitude shown during his tenure. He certainly has set a good example and left me with a hard act to follow. GIGSA is fortunate to have a very strong committee comprising experienced members as well as energetic new blood to keep everyone on their toes. Their hard work in amongst their busy schedules is greatly appreciated.

GIGSA's main goals for the period 2007-2008 are simple:

- Improve communication with, and service delivery to, our members
- Raise the profile of GIGSA as a respected society
- Establish regular training programmes and seminars on geosynthetic
- Strengthen relationships with affiliated and allied societies and institutions

South Africa is experiencing boom times in Civil Engineering Construction prompted by the multi-billion Rand projects for the Gautrain Rapid Rail-link and the 2010



Piet Meyer (representing Aquatan, received the Construction Award), Kelvin Legge (together with Aquatan received the Development in Technology Award), Garth James (current GIGSA President), Anton Bain (representing the GIGSA Awards Committee) (left to right)

FIFA-World Cup. The geosynthetic prospects are great as a result. Many questions have been raised as to whether South Africa will be able to deliver on the 2010 FIFA-World Cup. Five new stadiums are being built and many others refurbished for this prestigious event. At the last FIFA inspection the progress was well on track and the lit-

mus test comes next June when South Africa hosts the 2009 Confederations Cup. The role that geosynthetic play in the speedy delivery of such structures can be significant and they are being used.

Events

GIGSA conducted a series of reports around the country during May 2007 on the 8th International Conference held in September 2006.

Reporting on international trends and interesting applications and research into geosynthetics involving 351 technical papers and case studies as well as three keynote and one Special Giroud lecture was a challenging task but it was one that Danie Brink, Peter Legg and myself took seriously to enable us to give our members and geosynthetic friends a comprehensive report in as concise a way as possible. The reports in Durban, Cape Town and Gauteng were well received and well attended.

Five of our fellow country men were fortunate enough to attend a training seminar in Würzburg, Germany in April 2007 on the Long term performance of geosynthetics.

For the past few years a series of seminars titled "How Safe is that Concrete Retaining Block Wall?" have been held in different cities of South Africa. Run by the Concrete Manufacturers Association (CMA) the focus has been on "Design Aspects" and Geosynthetics with respect to "Polymers, products, properties and their behaviour" in flexible concrete retaining block walls. As a service to its members and any interested and affected parties, the CMA has put a lot of effort into making sure that specifiers and installers are given the correct guidelines and procedures for the design and construction of safe concrete retaining block walls. GIGSA is fortunate to have been involved with two of the presentations being made by one of our Past Presidents, Alan Parrock, and myself. The role of the contractor is also part of the programme in these seminars.

GIGSA endeavours to do the same to keep its members and the industry in general informed on developments in geosynthetics as well as making a contribution to events involved in the education of individuals in this field through visiting experts from overseas.

One such event was the Landfill 2007 Seminar held at Misty Hills,

Muldersdrift in Gauteng, South Africa, from 12-14 September. This successful seminar was co-hosted by the GIGSA and the Institute of Waste Management of South Africa. We were pleased to have Dr. Abdelmalek Bouazza of Monash University, Melbourne, Australia, delivering a keynote address on "*Recent advances in GCL research and relevance to landfill liners design*". As part of the seminar he also ran a short course on GCLs as part of the Seminar at the Cradle of Humankind at Maropeng, not too far from the Landfill 2007 venue.

The GIGSA used the opportunity to make their 2006 awards and we congratulate the following deserving recipients:

- Development in Technology - Kelvin Legge and Aquatan (Pty) Ltd for the development of a system that mitigates the negative effects of heat on geosynthetic materials in barrier systems.
- Construction - Aquatan (Pty) Ltd for the Geomembrane Lining System to the Effluent Treatment Plant at Mondi in Richards Bay.

A series of reports on GeoAmericas 2008 and EuroGeo 2008 by South African delegates to these conferences is planned for late November 2008 in the three main centres of South Africa, namely, Johannesburg, Cape Town and Durban.

Specifications and Guidelines

The GIGSA continues to work on generating specification guideline documents on the application of Geosynthetics in the different civil engineering disciplines, *inter alia*:

- The SANS 207 Code of Practice on *Reinforcing Soils and Fills using Geosynthetics* (based on BS 8006) is available through the South African National Standards authority (SANS). A series of workshops on this document is planned for early 2009.
- "Asphalt Reinforcement Guidelines" is a draft document under the auspices of the Road Pavement Forum. It was included as a draft in the proceedings of the *Committee on Asphaltic Pavements of Southern Africa (CAPSA) 2007 Conference* which

took place in Gaborone, Botswana, in September 2007. The contents of this document were the subject of a series of workshops through the Society for Asphalt Technology (SAT) in KZN, Gauteng and Cape Town to get support and feedback from the road pavement and surfacing industry. This Guideline document has now been completed and will be published as an Asphalt Academy document in the second half of 2008.

- The GCL specification guideline drafted by a GIGSA technical sub-committee is being finalised and will be the subject of a series of workshops in the main cities of South Africa in late August 2008.

GeoAfrica 2009

The GIGSA was encouraged by the IGS Council (Daniele Cazzuffi) to host the first African Geosynthetic Regional Conference and we as a committee have accepted the challenge. The conference, known as GeoAfrica 2009, will be held at the Cape Sun Hotel in Cape Town from 2-5 September 2009.

A GIGSA sub-committee has been formed under the Chairmanship of Peter Legg to facilitate the planning of this conference along with a professional conference organiser. The first announcement has been circulated and publicised at GeoAmericas in Cancun earlier this year as well as at Geosynthetics Asia in Shanghai last month. The same will be done at EuroGeo4 in Edinburgh in September. The call for abstracts has been distributed and posted on the web site. You can visit the web-site for more details and information at: www.geoafrica2009.org

The GIGSA is very excited to be hosting this prestigious event and we do not underestimate the task at hand. We will gratefully accept any help we can get.

We hope to see you all at GeoAfrica 2009!

*Reported by
Garth James, President GIGSA*

IGS Norwegian Chapter finally formed!



The IGS Norwegian Chapter was finally formed in May 2008, the by-laws and the constituted board of the Norwegian chapter were approved by IGS council in their meeting in Cancun in Mexico in March 2008. It has been a long and winding road to achieve this! The original plan was to form a Nordic chapter including members in all the Nordic countries and this is originating back to 1999 and an invitation to ask for possible interest in forming a Nordic chapter was sent out in 2001. However it turned out to be very difficult to find a good way of organising a chapter including several countries and based on a clear advice from IGS it was decided to go for a national chapter in Norway in 2007, so after 8 years the chapter is finally up and running! The chapter is also open for participants from the other Nordic countries if no national chapter is formed.

The first meeting in the Norwegian chapter was held in Oslo 2008-06-04 and the constituted



Board of IGS Norwegian Chapter (from left to right):
Henning Sørensen, Hanne Louise Moe, Arnstein Watn, Per K. Hoel

board was approved by the members. The board consists of:

- Arnstein Watn, SINTEF. President
- Per K. Hoel, Terratec. Vice President
- Hanne Louise Moe, SINTEF. Secretary
- Henning Sørensen, Ahlsell. Treasurer
- Roald Aabøe, Norwegian Directorate of Roads. Board member

The board will work closely together with the geosynthetic committee of the Norwegian Geotechnical Society (NGF) and the board members Hanne Louise Moe and Roald

Aabøe are also members of NGF Geosynthetic committee.

The chapter plans to arrange for a common travel arrangement to EuroGeo 4. It is also responsible together with NGF Geosynthetic committee for arranging a geosynthetic session at the Nordic Geotechnical meeting in Norway in September 2008. It will also work on establishing a web-based geosynthetic guide together with NGF Geosynthetic committee.

*Reported by
Arnstein Watn, IGS Norwegian
Chapter President*

Former Vice-chairman of German IGS Chapter Dr. Wilmers received EMS-award

During the celebration of the jubilee due to the 15 year existence of the "Institut für textile Bau- and Umwelttechnik GmbH (tBU)", Greven, Dr. Wilhelm Wilmers received the "EMS" award from Prof. Müller-Rochholz, head of tBU. The award is founded by the "Fundraising Group of tBU e.V". endowed with 2500 EUR. With the award works and activities in development ("E" for the German word: "Entwicklung"), material innovation ("M") and security ("S") in the field of textile constructions and environmental engineering are honoured.

Dr. Wilmers is the first laureate and is honoured for his engagement for

the use of geosynthetics in road constructions for decades. Dr. Wilmers started in 1976 with test sections for determining the behaviour of nonwovens as separation layers between weak and low bearing subsoils and granular subbase materials. He was head of the working group AA 5.15 of the "Forschungsgesellschaft für Straßen- und Verkehrswesen e.V. (FGSV)" that was also a working group (AK 5.3) of the special section "Geosynthetics in Geotechnics" of the German Geotechnical Society (DGGT). Since the foundation of this special section and of the German Chapter of the International Geo-

synthetics Society (IGS) Dr. Wilmers was vice-chairman of both organisations until 2005. So he was and is still active in the field of geosynthetics application and research even after retiring in 1999 from his work at the road administration of the German federal state Hessen. Due to his enormous personal efforts geosynthetics are well known and used in all fields of road constructions covered with a fundamental set of recommendations developed under his leadership.



Dr. Wilmers (middle) received the EMS--Award from Prof. Müller-Rochholz (right) and the mayor of Greven Mr. Vennemayer

The merits of Dr. Wilmers were shown in laudation and lectures on geosynthetics and earthwork specific topics given by Mr. Roderich Hillmann (Federal Highway Research Institute - BASt), IGS members Jochen Müller-Rochholz and Prof. Georg Heerten and IGS Council member Gerhard Bräu. The main lecture on geosynthetics history and progress was given by Dr. Wilmers himself. He showed the efficiency of geosynthetics, the progress in research and application over the years and the potential of geosynthetics in saving raw materials, resources and costs during construction of roads and at main-

tenance. The same efforts he spent on the development of recommendations and standards for quality assurance and testing of geosynthetics on national and international level within CEN and ISO groups. All speakers and attendees of the ceremony expressed to Dr. Wilmers their thanks and recognition and the best wishes for his further path of life in the best of health.

*reported by
Georg Heerten and
Gerhard Bräu, vice-chairmen of
German IGS Chapter*

List of IGS Chapters and their Chairpersons

Australia

Australasian Chapter (2002)
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Belgium

Belgian Chapter (2001),
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Brazil

Brazilian Chapter (1997)
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Chile

Chilean Chapter (2006),
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China

Chinese Chapter (1990)
Chairman: Li, Guangxin
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Czech Republic

Czech Chapter (2003)
Chairman: Mr. Petr Hubik
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France

French Chapter (1993)
President: Mr. Jean-Pierre Magnan
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Germany

German Chapter (1993)
Chairman: Prof. Dr.-Ing. Martin Ziegler
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www.gb.bv.tum.de/fachsektion/index.htm

Greece

HGS, Greek Chapter (2005)
President: Mr. Dimitrios K. Atmatzidis
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India

Indian Chapter (1988)
President: Dr. G.V. Rao
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Indonesia

INA-IGS, the Indonesian Chapter (1992)

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Italy

AGI-IGS, the Italian Chapter (1992)
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Japan

Japanese Chapter (1985)
Chairman: Dr. Hiroshi Miki
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Korea

KC-IGS, The Korean Chapter (1993)
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Mexico

Mexican Chapter (2006)
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Netherlands Chapter (1992)
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North America

North American Geosynthetics Society (NAGS) (Canada, USA) (1986)
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Norway

Norwegian Chapter of IGS (2008)
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Peruvian Chapter (2001)
President: Miguel De La Torre
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Philippines

Philippine Chapter (2007)
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Portugal

Portuguese Chapter (2003)
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Romania

Romanian Chapter (1996)
President: Dr. Valentin Feodorov
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Russian chapter of IGS (RCIGS, 2008)
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Singapore, Malaysia and Brunei

South-East Asian Chapter (1988)
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Spain

Spanish Chapter (1999)
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Thailand

Thai Chapter (2002)
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Turkey

Turkish Chapter (2001)
President: Prof. Fazil Erol Guler
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U.K. Chapter (1987)
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West Pacific R. Chapter

West Pacific Regional Chapter (1997)
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Note:

- In case of not updated information, the IGS chapters are invited to notify to both IGS Secretary and IGS News Editor

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Geosynthetics International



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

Geosynthetics International is only published electronically starting Volume 10 (2003) by Thomas Telford and is free to IGS Members. All

others, e.g., corporations, companies, and university libraries, can subscribe at a rate of £ 421 / US\$ 870. An individual rate for those non-members whose organization subscribes, but would like an additional personal subscription (including the update CD) will be available for £ 60 / US\$ 108.

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

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

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

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Geotextiles & Geomembranes



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

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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.

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A hardcopy of *Geotextiles and Geomembranes* is available at a

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www.geosyntheticssociety.org/

Content of Volume 26, Issue 3 (June 2008)

A study on biological clogging of nonwoven geotextiles under leachate flow

Ennio M. Palmeira, Aline F.N. Remigio, Maria L.G. Ramos, Ricardo S. Bernardes

[Abstract/Paper](#)

Preloading clayey deposit by vacuum pressure with cap-drain: Analyses versus performance
Jinchun Chai, Norihiko Miura, D.T. Bergado

[Abstract/Paper](#)

Model studies on geogrid- or geocell-reinforced sand cushion on soft

soil

Huabao Zhou, Xuejun Wen

[Abstract/Paper](#)

Combined effect of PVDs and reinforcement on embankments over rate-sensitive soils

R. Kerry Rowe, C. Taechakumthorn

[Abstract/Paper](#)

The influence of uniaxial tensile strain on the pore size and filtration characteristics of geotextiles

Cho-Sen Wu, Yung-Shan Hong, Rwei-Hung Wang

[Abstract/Paper](#)

Evaluating the effects of the magnitude and amplification of pseudo-static acceleration on reinforced soil slopes and walls using the limit equilibrium Horizontal Slices Method

H. Nouri, A. Fakher, C.J.F.P. Jones

[Abstract/Paper](#)

Earth reinforcement using soilbags
Yongfu Xu, Jian Huang, Yanjun Du, De'an Sun

[Abstract/Paper](#)

Corrigendum to "Experimental and theoretical investigation of strength of soil reinforced with multi-layer

horizontal-vertical orthogonal elements" [Geotextiles Geomembranes 26 (2008) 1–13]

M.X. Zhang, H. Zhou, A.A. Javadi, Z.W. Wang
[Abstract/Paper](#)

Content of Volume 26, Issue 4 (August 2008)

Pseudo-dynamic approach of seismic design for waterfront reinforced soil-wall

Syed Mohd. Ahmad, Deepankar Choudhury
[Abstract/Paper](#)

The behavior of a laminated reinforced granular column

Cho-Sen Wu, Yung-Shan Hong
[Abstract/Paper](#)

Effects of viscous behavior of geosynthetic reinforcement and foundation soils on the performance of re-

inforced embankments

Allen Lunzhu Li, R. Kerry Rowe
[Abstract/Paper](#)

Seismic response of reinforced soil retaining wall models: Influence of backfill relative density

G. Madhavi Latha, A. Murali Krishna
[Abstract/Paper](#)

New seismic parameters in the analysis of retaining walls with reinforced backfill

S. Shekarian, A. Ghanbari, A. Farhadi

[Abstract/Paper](#)

On the interface shear resistance of a novel geogrid with in-plane drainage capability

Brendan C. O'Kelly, Patrick J. Naughton

[Abstract/Paper](#)

Investigation on failure of a geosynthetic lined reservoir

W. Wu, X.T. Wang, F. Aschauer
[Abstract/Paper](#)

Geotextiles and Geomembranes: Best papers in 2007 by Kerry Rowe

Geotextiles and Geomembranes is an Official Journal of the IGS, and IGS members get free access to papers published in the journal since 1995. It is one of the highest impact journals in geotechnical engineering and one of two primary archival outlets for papers published on geosynthetics. It enjoys an excellent flow of high quality papers.

Following the Editorial Board meeting held in Yokohama in September 2006 it was decided that it would be desirable to recognise some of the best papers published in *Geotextiles and Geomembranes*. We started with Volume 23 and the winners for 2005 and 2006 were celebrated at the GeoAmericas 2008 Conference in Cancun in March 2008. The Editorial Board was then charged with selecting what they considered to be the "Best Paper" published in *Geotextiles and Geomembranes* in Volume 25, 2007. Papers were considered for their contribution to the discipline in terms of providing significant new insights and/or of

being of high potential impact on the discipline. All Technical Articles except those co-authored by the Editor were eligible. The winners were selected based solely on a vote of the Editorial Board members.

Following a rigorous review of the papers I am pleased to announce that the Best Paper for 2007 was:

- Effect of deformations on the hydraulic stability of coastal structures made of geotextile sand containers
by Juan Recio and Hocine Oumeraci, *Geotextiles and Geomembranes*, 25(4-5): 278-292.

Three papers were selected for Honourable Mention

- Tension in geomembranes on landfill slopes under static and earthquake loading—Centrifuge study
by N.I. Thusyanthan, S.P.G. Madabhushi and S. Singh, *Geotextiles and Geomembranes*, 25(2): 78-95.
- Geosynthetic reinforcement for the reduction of the effects of ex-

plosions of internally pressurised buried pipes

by N. Tupa and E.M. Palmeira
Geotextiles and Geomembranes, 25(2): 109-127.

- Remedial treatment of soil structures using geosynthetic-reinforcing technology
by F. Tatsuoka, M. Tateyama, Y. Mohri and K. Matsushima, *Geotextiles and Geomembranes*, 25(4-5): 204-220.

As runners-up and hence being judged to be amongst the four best papers published in *Geotextiles and Geomembranes* in 2007. Congratulations to all of the authors for their very significant contribution to the geosynthetics discipline.

R. Kerry Rowe

Editor

Geotextiles and Geomembranes

Conferences

Symposia

Workshops

6th International Conference on Case Histories in Geotechnical Engineering
Washington, D.C., USA
11 - 16 August 2008
E-mail: prakash@umr.edu
www.6icchge2008.org

1st International Conference on Transportation Geotechnics
Nottingham, United Kingdom
25 - 27 August 2008
E-mail:
geomechanics@nottingham.ac.uk
www.nottingham.ac.uk/ncg

19th European Young Geotechnical Engineers Conference
Gyor, Hungary
4 - 5 September 2008
E-mail: issmge@ymmfk.szie.hu;
imreemok@hotmail.com

Global Waste Management Symposium
Copper, Colorado, USA
7 - 10 September 2008
E-mail: rita.ugianskis@penton.com
www.wastesymposium.com

5th Bored and Auger Piles Conference
8 - 10 September 2008
Ghent, Belgium
E-mail: william.vanimpe@ugent.be

Stress Wave 2008 - 8th International Conference on the Application of Stress Wave Theory to Piles
Lisbon, Portugal
8 - 10 September 2008
E-mail: sw2008@civil.ist.utl.pt
www.civil.ist.utl.pt/sw2008

EuroGeo4
The Fourth European Geosynthetics Conference
Edinburgh, Scotland, UK
7 - 10 September 2008
E-mail: eurogeo4@eurogeo4.org
www.eurogeo4.org

11th Baltic Sea Geotechnical Conference - Geotechnics in Maritime Engineering, Gdansk, Poland
15 - 18 September 2008
E-mail: BC11@pg.gda.pl
www.pg.gda.pl/~BC11

Waste 2008
Stratford-upon-Avon, Warwickshire, England
16 - 17 September 2008

Calendar of Events



Email: info@waste2008.com
www.waste2008.com

4th International Symposium on Deformation Characteristics of Geomaterials
Atlanta, Georgia
22 - 24 September 2008
E-mail: webmaster@isatlanta2008.org
www.isatlanta2008.org

2nd Remediation Technologies Expo
RemTech 2008
Ferrara, Italy
24 - 26 September 2008
Email: info@ferrarafiere.it
www.remtechexpo.com

30th Baugrundtagung
Dortmund, Germany
24 - 27 September 2008
Email: service@dggg.de
www.baugrundtagung.com

First International Conference on Hazardous Waste Management
Chania-Crete, Greece
1 - 3 October 2008
E-mail:
hwm1.conference@enveng.tuc.gr
www.hwm1.tuc.gr

12th International Conference of the IACMAG
Goa, India
1 - 6 October 2008
E-mail: dns@civil.iitb.ac.in
www.civil.iitb.ac.in/~dns

XXI National Conference on Geosynthetics
Bologna, Italy
15 October 2008
E-mail: agiroma@iol.it

NUCGE'08
Skikda, Algeria
27 - 29 October 2008
E-mail: larmacs@univ-skikda.dz
www.univ-skikda.dz

IV International Conference on Scour and Erosion 2008, ICSE-4
Tokyo, Japan
5 - 7 November 2008
E-mail: [sekiguch@ujigawa.mbox, media@kyoto-u.ac.jp](mailto:sekiguch@ujigawa.mbox.media@kyoto-u.ac.jp)
<http://icse-4.kz.tsukuba.ac.jp>

Geosynthetics India' 08
Hyderabad (Andhra Pradesh), India
19 - 21 November 2008
E-mail: uday@cbip.org;
cbip@cbip.org
<http://www.cbip.org>

Short Courses

Expositions

Trade Shows

24th Mexican National Conference on Soil Mechanics
Aguascalientes, Mexico
26 - 29 November 2008
Email: smms@prodigy.net.mx

6th Asian Young Geotechnical Engineers' Conference – Next Generation Geotechnics
Bangalore, India
20 - 21 December 2008
E-mail: sitharam@civil.iisc.ernet.in
www.civil.iisc.ernet.in/~igc2008/

FS-KGEO 2009
Kunststoffe in der Geotechnik
Munich, Germany
12 Februar 2009
E-mail: fskgeo@bv.tum.de
<http://www.gb.bv.tum.de/fachsektion/a/veranstaltungen.htm>

Geosynthetics 2009
Salt Lake City, Utah, USA
25 - 27 Februar 2009
<http://www.geoshow.info/>

7èmes Rencontres Geosynthetiques
Nantes, France
1 - 3 April 2009
www.rencontresgeosynthetiques.org/

International Symposium on Prediction and Simulation Methods for Geohazard Mitigation
Kyoto, Japan
25 - 27 May 2009
E-mail: foka@mbox.kudpc.kyoto-u.ac.jp
www.nakisuna2.kuciv.kyoto-u.ac.jp/tc34/is-kyoto/

Geo-Environmental Engineering 2009 (GEE 2009) the 9th Joint Seminar on Geoenvironmental Engineering
Vancouver, Canada
10 - 12 June 2009

IS-Tokyo 2009 - International Conference on Performance-Based Design in Earthquake Geotechnical Engineering
Tsukuba, Japan
15 - 17 June 2009
E-mail: ytsoil@rs.noda.tus.ac.jp
www.rs.noda.tus.ac.jp/ytsoil/IS2009.htm

GeoAfrica 2009
The First African Regional Conference on Geosynthetics
Cape Town, South Africa
2 - 4 September, 2009
www.geoafrica2009.org

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Tekpro (2008)

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- 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

Celebrating 20 Years of Corporate Membership



Mr Masao Ito of Maeda Kosen accepting the Corporate Recognition Award for Kajima Corporation and for Asahi Kasei (Asahi Geotech Co. Ltd) from John Cowland at GeoSynthetics Asia 2008.

On the occasion of the 25th of the IGS in 2008 the Society has initiated a program to recognize those corporate members that have 20 years or more continuous membership. In 2008 there are 18 such companies. In 2010, at the 9th ICG, the program will continue with as many as 6 companies to be recognized.

Recognition ceremonies and the presentation of a "gift" for each company will take place at the three IGS events in 2008, GeoAmericas in Cancun, Geosynthetics Asia in Shanghai and EuroGeo4 in Edinburgh. The companies to be recognized are listed below.

Award Ceremony at GeoAmericas 08:

- Geosynthetic Materials Association (GMA), USA
- NAUE GmbH & Co. KG, Germany

Award Ceremony at GeoSynthetics Asia 2008:

- Asahi Kasei Geotechnologies Co., Ltd., Japan
- Kajima Corporation, Japan

Award Ceremony at EuroGeo4:

- Bonar Technical Fabrics N.V., Belgium
- Colbond bv., The Netherlands

- Du Pont de Nemours (Luxembourg) S.A., Luxembourg
- Fibertex A/S, Denmark
- Fritz Landolt AG, Switzerland
- GSE Lining Technology, Inc., USA
- Huesker Synthetic GmbH & Co., Germany
- Okasan Livic Co. Ltd., Japan
- Swiss Association for Geosynthetics SVG, Switzerland
- TenCate Geosynthetics Europe GmbH, Austria
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- Japan Spunbond - Toray Corp., Japan
- Obayashi Corporation, Japan
- Tokyu Construction Co. Ltd., Japan

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IGS News is published three times per year. Material for publication should be submitted to the Editor by 31 January, 31 May, and 30 September, for possible publication in the March, July, and November issues, respectively.

IGS Clothing

IGS Logo Clothing is now available on-line. Hats, visors and various shirts can be viewed and ordered

through the Members Only Section (www.geosyntheticssociety.org/membersOnly/Login.asp) of the site.

Item Name	Item Number	Available Sizes	Colors	Cost
Visor	840	One size fits all	White, Stone, Aqua, Carrot, Khaki, Dandelion	\$11.00
Cap	810	One size fits all	White, Khaki	\$11.00
T-Shirt	PC61	S, M, L, XL	White, Aqua, Ash, Gold, Daffodil, Light Blue, Lime, Red, Natural, Orange Sherbet, Pink, Sand, Stonewash Green, Stonewash Blue, Spruce, Heather, Colonial Blue,	\$11.00
Gildan Golf Shirt	3800	S, M, L, XL	Ash, Gold, Sport Grey, Cardinal Red, Sand, Carolina Blue, Light Blue, Tangerine, Yellow Haze	\$17.00
Cutter & Buck Golf Shirt	02481	S, M, L, XL	White, Lotus, Putting Green, Red, Black, Sea Blue, Navy Blue	\$35.00
 Short Sleeve Button Down	507	S, M, L, XL	Light Stone, White, Faded Blue	\$28.00
Long Sleeve Button Down	620	S, M, L, XL	Cypress, White, Light Blue, Stone	\$35.00

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Imprint

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**IGS News is published
by:**

International Geosynthetic Society
P.O. Box 347
Easley, SC 29641
USA
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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.

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Membership of the International Geosynthetics Society (IGS) 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 individuals and US\$1000 for Corporate Members. Individuals of, or not of, corporations who voluntarily contribute a minimum of US\$200 annually to the IGS, in excess of their membership dues, will be mentioned in the IGS Directory in a separate list as benefactors.

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