

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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Announcing the Candidates for IGS Council Elections Term 2000 to 2004

by Professor R.J. Bathurst, IGS President

A call for candidates for IGS Council appeared in the July and November 1999 issues of *IGS News* and was posted on the IGS web site. I am delighted to report that the response has been very positive with a total of 21 declared candidates for the eight available Council positions. This is the largest number of candidates for IGS Council elections in the 17-year history of our Society. Most encouraging is the geographical diversity of the candidates with some from countries with well established IGS chapters and others from newly formed chapters or countries where the IGS Membership has increased rapidly in recent years. Clearly, the willingness of so many talented IGS Members to participate in the management of the Society bodes well for the future.

The Council election will be held by

postal ballot in May of this year for a four-year term, starting in July 2000. Biographies of the candidates follow this article and will also appear with the election ballot package that you will receive in the next few months.

I ask that all IGS Members carefully read the biographical information and consider the merits of the individual candidates with respect to geographical location and background. In order for the IGS to fulfill its mandate in this new millennium, it is important that the IGS Council be comprised of motivated individuals who reflect the geographical breadth of the Society and the wide range of disciplines and experience associated with our professional Society.

The first IGS Council meeting, with the newly elected Council Members, will be held in conjunction with the *Second European Conference on Geosyn-*

thetics (EuroGeo2) in Bologna, Italy, 15 to 18 October 2000 (see p. 7). At least three additional meetings will be held for those Members whose terms expire in 2004. Typically, these meetings are held in Asia, Europe, and North America.

Other news

It is a great pleasure to welcome the newest and 17th chapter of the IGS — the Spanish Chapter, which was formed late in 1999. I am also delighted to report that the IGS has received Chapter bylaws and membership lists from groups in two other countries who wish to become an IGS Chapter. Approval of these applications will be finalised at the next IGS Officers meeting scheduled for May of this year. In the next issue of *IGS News*, we hope to introduce the Peruvian Chapter and Turkish Chapter to our Members.

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Visit the IGS WWW site: <http://igs.rmc.ca>

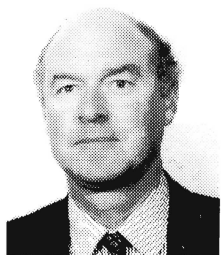
IGS Council Candidates

Mr. Gerhard Bräu



Mr. Bräu graduated from the Civil Engineering program at the Technical University of Munich (TUM), Munich, Germany, in 1984, with specialties in soil mechanics, foundation engineering, and the analysis of structures. He then started working in the Soil Mechanics and Foundation Engineering Department at TUM. He is in charge of research related to the design and application of earthworks, ground engineering, quality control, and statistical and continuous compaction control. The main geosynthetics-related research that he is involved in are soil-geosynthetic interaction under static and dynamic loadings, geosynthetics installation damage, reinforcement of roads and steep slopes, full-scale field tests, laboratory simulations, education, and special lectures on the applications of geosynthetics. He is active in many national and international societies and standardisation organisations (IGS, German Society for Geotechnics (DGGT), European Committee for Standardization (CEN), Deutsches Institut für Normung (DIN), Road and Transportation Research Association (FGSV)) and has published more than 20 papers. As the Technical Secretary of the DGGT special division, "Geosynthetics in Geotechnique", since its formation in 1988, and a Member of the German IGS Chapter, he has helped organise several geosynthetics-related national conferences.

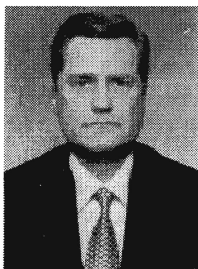
Dr. John W. Cowland



After graduating from Civil Engineering, Dr. Cowland obtained a Masters in Soil Mechanics from Imperial College, London. He worked in England and the Netherlands for five years

before joining the Geotechnical Engineering Office in Hong Kong 20 years ago. Initially working on slopes and tunnels, he was assigned to work on landfills in 1986. He soon became involved in the design of new liner systems, which led to a growing and continuing interest in the use of geosynthetics on many other civil engineering projects, and a number of publications. Mr. Cowland firmly believes that the key to the future of the geosynthetics discipline lies in the education of young engineers. If elected, he would like to use his experience to help the IGS provide further understanding of the beneficial uses of geosynthetics throughout Asia.

Dr. Valentin Feodorov



Dr. Feodorov obtained a Civil Engineering degree, from the Faculty of Land Reclamation, and his Ph.D. (1997) from the Faculty of Civil Engineering, both at Bucharest University, Bucharest, Romania. He has also attended postgraduate courses on geosynthetics and quality assurance (QA) in construction. For 10 years, he worked as a Project Manager in Arabic countries on hydrotechnical, road, and bridge construction projects. In 1990, he became an Associate Professor in the Faculty of Environmental Engineering and Land Reclamation at Bucharest University and a co-founder and General Manager of Iridex Group Constructii, a private company that deals with geosynthetics (design and installation). It is largely through his efforts that the Romanian Association of Geotextiles and Geosynthetics became the Romanian IGS Chapter in 1997. Since 1996, he has been the Chair of this Association. He is the coauthor of *Geosynthetics in Civil Engineering* and the author of many papers on geosynthetics. He is also a Member of the International Association for Bridge and Structural Engineering and the International Society for Trenchless Technology.

Ms. Danette R. Fettig



For more than 10 years, the geosynthetics industry has been a full-time commitment for Ms. Fettig, allowing her to serve in numerous roles. As Editor of *Geotechnical Fabrics Report* magazine (*GFR*) from 1990 to 1995, she edited more than 45 issues and established the first international presence for *GFR*, including editorial contributions and technical advisory representation. In addition, she increased the scope of contributions for the *GFR Specifier's Guide*. Ms. Fettig worked in collaboration with the IGS in the development of the technical journal *Geosynthetics International* from 1994 to 1996, specifically on the establishment of the paper protocol and marketing strategy of the Journal. She served as the Secretary-General for the *Sixth International Conference on Geosynthetics, Geosynthetics '97*, and *Geosynthetics '99* and serves as Secretary-General for *Geosynthetics 2001*. In 1998, she worked with industry to establish the Geosynthetic Materials Association (GMA), a division of IFAI. As Managing Director, she has involved industry in educational cooperation, including the IFAI Professors Training Course, National Highway Institute Courses, and the completion of two industry White Papers.

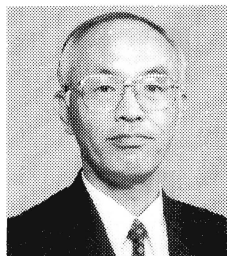
Mr. Julio Garcia-Mina



Mr. Garcia-Mina graduated as a Civil Engineer from the Politechnical University of Madrid (UPM), Madrid, Spain. He has worked for TMA Terratest MedioAmbiente, Grupo Terratest, Cimyson, Icos, S.A. in Spain since 1988, first as a Junior Product Manager, until now as General Manager. TMA distributes and installs geosynthetics for geosyn-

thetics manufacturers. Since 1988, he has lectured or prepared papers for many courses and symposiums in Spain mainly on the installation of geosynthetics in earth structures and the performance of drainage geocomposites. He is a member of CEN TC 288 (Execution of Special Geotechnical Works)/WG 9 (Installation of Reinforced Earth Structures) and is the Convenor of the Spanish Mirror Group (the national working group related to CEN TC 288/WG 9). Mr. Garcia-Mina is also an active member of the Spanish standards committees AENOR CT 40 (Geotextiles) and CT 104 (Geomembranes), as well as the Spanish Technical Committee for Geotextiles, which belongs to Asociación Técnica de la Carretera (ATC, Road Technical Association)—the Spanish representative of the Permanent International Association of Road Congresses (PIARC). Currently, he is the Secretary-Treasurer of the recently founded Spanish IGS Chapter.

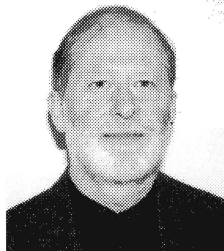
Prof. Masashi Kamon



Dr. Kamon has been a Professor of Geomechanics at the Disaster Prevention Research Institute, Kyoto University, Kyoto, Japan, since 1991. After graduating from the School of Civil Engineering, Kyoto University, in 1973, he worked in the Department of Engineering, Kyoto University, for 18 years. During this time, he performed research on ground improvement and, in particular, on the ground-improving mechanism of prefabricated band-shaped drains and solidification methods using several different soil stabilisers. Since 1991, he has worked tirelessly on developing a geosynthetic horizontal drain material and its application to reinforced, soft clay soil embankments. Dr. Kamon is also engaged in environmental geotechnics research. He organised the *Second International Congress on Environmental Geotechnics* in Osaka, Japan, which was held in 1996. He was awarded the Society Award for Authors by the Japanese Society of Ma-

terial Science in 1991 and 1997. He has published more than 110 geotechnical-related papers in international and national journals and conferences during his career.

Prof. Jean Lafleur



Dr. Lafleur is a Professor of Geotechnical Engineering at Ecole Polytechnique de Montréal, Montréal, Canada. He conducts research

and consults on the use of geosynthetics in filtration and drainage applications. From 1998 to 1999, he was an Invited Professor at the Laboratoire Interdisciplinaire de Recherche Impliquant la Géologie et la Mécanique (LIRIGM) Research Center on Geosynthetics in Grenoble, France. He has participated in many "Short Courses on Geosynthetics" and he is the author of more than 90 technical papers related to geosynthetics in environmental works, roads, and dams. Recently, he was the *Geotextiles and Geomembranes* Guest Editor of a special issue on filtration (Vol. 17, Nos. 5-6). He also serves as Editor of *Geotechnical News* published by the Canadian Geotechnical Society (CGS). He is currently a Member of the Education Committee of the IGS Council and is President-Elect of the Geosynthetics Division of the CGS. He has been nominated Associate Editor of *GÉOGLOBE*, a new international French language publication devoted to the promotion of geosynthetics.

Dr. Eun-Soo Lee



Dr. Lee studied Civil Engineering at Hanyang University and obtained his Ph.D. in Geotechnical Engineering at Dongguk Uni-

versity, Seoul, Korea in 1996. He is a licensed Professional Engineer (Civil and Geotechnical Engineering). In 1986, he

established E&S Eng. Co., Ltd. and introduced reinforced earth to Korea. He has researched new geosynthetic-reinforced earth systems and developed KORESWall system, a new geosynthetic-reinforced earth wall system used in Korea. Currently, he is the Chair of the Korea Institute of Construction & Structural Safety in Seoul, Korea. Dr. Lee has published approximately 30 papers on geosynthetic-reinforced earth. He is a Member of The International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), the IGS, the Korean Society of Civil Engineers (KSCE), and a Council Member of the Korean Geotechnical Society. He was the Chair of the Financial Committee for the *11th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering*, which was held in Seoul in 1999. In 1999, he was awarded the New Technology Award from the Ministry of Construction & Transportation in Korea.

Prof. Maria-Lurdes da Costa Lopes



Prof. Lopes graduated as a Civil Engineer from the Faculty of Engineering, Porto University, Porto, Portugal, in 1977. She received her Masters Degree

from the New University of Lisbon, Portugal, in 1986 and her Ph.D. from Porto University in 1992. In 1982, she became a researcher at the Polytechnic School of Porto, and, in 1986, she joined the Faculty of Engineering staff at Porto University, where she currently is responsible for teaching undergraduate and graduate courses on geosynthetics in civil engineering and earth works, and also teaches short courses on geosynthetics. Prof. Lopes' research interests are geosynthetics (mainly in environmental applications) and environmental geotechnics. She has supervised the research of 11 students and is currently supervising eight (five Ph.D. and three M.Sc. students). She has been involved in nine research projects (three are still ongoing), being the principal investigator in five. She has 62 scientific publications, 12 publications with students, and

40 consulting reports. She is the representative from Portugal on the following committees: CEN TC 189 (Geotextiles and Geotextile-Related Products), IGS European Activity Committee (EAC), European Program on Soil-Structure Interaction in Urban Civil Engineering (COST-C7), and ISSMGE TC 5 (Environmental Geotechnics).

Prof. Michel Maugeri



Prof. Maugeri graduated from Civil Engineering at the Politecnico of Torino, Torino, Italy. The following two years he was employed as a researcher at Imperial College of London. Currently, he is a full Professor of Geotechnical Engineering at the University of Catania, Catania, Italy, where he is also Director of Ph.D. Studies in Geotechnical Engineering. He is Vice-President of the Italian Geotechnical Association-National Group of the International Geosynthetics Society (AGI-IGS), President of the Financial Board of the National Association of Earthquake Engineering, Member of UNI GL5 (Geotextiles and Geotextile-Related Products), and an Editorial Board Member for the *Italian Geotechnical Journal*. He is the Italian delegate for ISSMGE TC 4 (Earthquake Geotechnical Engineering) and the Italian delegate for Task Group No. 6 (TG 6, Earthquake Geotechnical Engineering and Microzonation of the European Association for Earthquake Engineering). Since 1970, Prof. Maugeri has authored or coauthored more than 200 papers.

and different. As a Geotechnical Engineer in Sweden together with the added experience of developing, manufacturing, and marketing geosynthetics in the UK and the USA, and a present position as Technical Manager for a French company, Mr. Myles believes he is well qualified to meet these new challenges. He is an active member of European, American, and international standards organisations and is acutely aware of how poorly prepared the geosynthetics community is to appreciate the impact of the new regulations. However, the increasing regulation and direction that influence the use of geosynthetics must be seen as an opportunity rather than a threat, and he believes that the IGS has a role to play in representing its Members' interest in regulatory forums and explaining the consequences of new regulations. Having been previously an IGS Council Member for eight years, he is aware of the responsibility and obligation that Council membership confers. If elected, Mr. Myles will endeavour to represent all IGS Members.

Mr. Bernard Myles



The next 17 years of the IGS will certainly be as exciting and demanding as the last 17 years, however, what is equally certain is that the challenges confronting the IGS will be new

and different. As a Geotechnical Engineer in Sweden together with the added experience of developing, manufacturing, and marketing geosynthetics in the UK and the USA, and a present position as Technical Manager for a French company, Mr. Myles believes he is well qualified to meet these new challenges. He is an active member of European, American, and international standards organisations and is acutely aware of how poorly prepared the geosynthetics community is to appreciate the impact of the new regulations. However, the increasing regulation and direction that influence the use of geosynthetics must be seen as an opportunity rather than a threat, and he believes that the IGS has a role to play in representing its Members' interest in regulatory forums and explaining the consequences of new regulations. Having been previously an IGS Council Member for eight years, he is aware of the responsibility and obligation that Council membership confers. If elected, Mr. Myles will endeavour to represent all IGS Members.

Mr. Jim Paul



Mr. Paul graduated from the Civil Engineering program at the University of Strathclyde in Glasgow, UK. His early career was spent on a

wide range of civil engineering projects that involved the use of geosynthetics. He joined Tensar International (then Netlon Limited) in 1982 and from that time has been heavily involved in the development of the technology of using polymer geogrids in reinforced soil applications. Mr. Paul was a founding member of the UK IGS Chapter, serving as Secretary, Vice-Chair, and Chair; he is currently Chair of the Education committee of the IGS Council. Education is an extremely important area of concern for the Council, and there is a demanding programme of work being undertaken to significantly increase the availability of geosynthetics-related educational items.

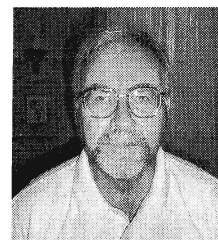
Mr. Hans Rathmayer



Mr. Rathmayer was educated at the Faculty of Culture Technics at the University of Bodenkultur in Vienna, Austria. Since 1969, he

has been an employee at the Technical Research Centre of Finland and has been involved in many laboratory and site investigation research projects on improvement methods for soft subsoils, the use of geosynthetics in road and earthwork construction, and the determination of properties of natural and man-made materials. Mr. Rathmayer is an author or coauthor of more than 80 technical papers and is an active member of the following different national and international societies and committees: ISSMGE TC 17 (Ground Improvement, Reinforcement, and Grouting), CEN TC 189 (Geotextiles and Geotextile-Related Products), CEN TC 288 (Execution of Special Geotechnical Works), and CEN TC 254 (Flexible Sheets for Waterproofing). He is the Foreign Secretary of the Finnish Geotechnical Society and has, as Chair of the Finnish Technical Committee on Geosynthetics and Soil Reinforcement, contributed to the fruitful collaboration between the ISSMGE and the IGS.

Mr. Michael Sadlier



Mr. Sadlier, MIEAust, CPEng, is an Australian Civil Engineer who has been involved with geotechnical, geosynthetic, and other types of

construction as a contractor, consultant, or material supplier for 30 years with experience across Australia and the Asia-Pacific Region. He first worked with geosynthetics in 1972, and, for ten years from 1982, he was involved with geosynthetic technical and market development with the Polyfelt Group. Since 1992, he has operated a geosynthetic

specialist consultancy. He has actively participated in many geosynthetic events across Europe, America, Asia, and Australasia. He believes that geosynthetics can be more influential in project development and viability as we move from mere replacement of existing materials to exploring what can be achieved with these more flexible and capable materials in order to make projects happen. The key to this lies in improving knowledge and confidence in the capabilities of geosynthetics and the maintenance of installation standards to achieve desired results.

Mr. Carlos J. Sanchez



Mr. Sanchez received a Chemical Engineering degree from Universidad Nacional Autonoma de Mexico (UNAM), Mexico City, Mexico, in 1973, and an MBA

from the Institute for Executive Development (IEDE), Madrid, Spain, in 1998. Since 1982, he has obtained world-wide experience in research and development and application techniques of geosynthetics while working for Polyfelt in Austria. For many years, he has been active in the following geosynthetics committees: CEN TC 189 (Geotextiles and Geotextile-Related Products)/WG 5 (Durability), ISO TC 38 (Textiles)/SC 21 (Geotextiles), and AENOR TC 40 and TC 104. He is an active Member of the IGS European Activity Committee and a Member of the Spanish IGS Chapter. Mr. Sanchez is the author of more than 15 papers on geosynthetic design and applications and has co-organised geosynthetics lectures at the Universidad Politecnica de Madrid (UPM), Madrid, Spain. He has co-ordinated several research programs on the durability of geosynthetics and geosynthetics-soil interaction behavior. Since 1982, he has promoted proper design, use, and specification of geosynthetics at congresses and universities in several countries. Since 1991, he has been Managing Director of Polyfelt Geosynthetics Iberia in Spain and active in promoting geosynthetics in Spain, Portugal, and Latin

America. He is a Board Member of Polyfelt Brazil.

Mr. Alberto Scuero

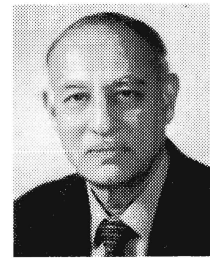


Mr. Scuero was awarded a Degree in Hydraulic Civil Engineering from the Turin Politechnical School, Turin, Italy, in 1973. He received his Professional Engineering License in 1973.

He has also attended postgraduate courses on geosynthetics and quality assurance (QA) in construction. From 1969 to 1985, he worked in various positions (e.g. Site Supervisor and Technical Manager) for major civil engineering construction companies in Italy and Africa. In 1986, he joined CARPI, a private Italian group that works in the field of geosynthetics. He is the inventor and holder of several patent rights regarding the installation of geomembranes and geocomposites in dry and underwater conditions. Since he joined CARPI, he has been involved in research on geosynthetic properties and manufacturing, as well as applied geomembrane technology. His interest and experience both in geosynthetics research and installation has been documented in a wide series of presentations and publications; he is the author or coauthor of more than 40 papers on geosynthetics. Mr. Scuero holds the following positions: Chair of the International Commission on Large Dams (ICOLD) European Working Group on Geomembrane and Geosynthetics as Facing Material on Dams; Member of the IGS Executive Council; the Italian Representative at CEN for Geomembranes in Hydraulic and Underground Structures, which is a joint working group for CEN TC 189 (Geotextiles and Geotextile-Related Products)/TC 254 (Flexible Sheets for Waterproofing); and a Member of the Italian Institute of Civil Engineers.

Dr. C.V.J. Varma

Dr. Varma started his professional career in April 1958 at Andhra Pradesh State Electricity Board, after obtaining his



Civil Engineering degree. Since 1968, he has managed the Central Board of Irrigation and Power and has overseen the application of innovative

technologies to solve engineering problems, often with the use of geosynthetics. He founded the Indian IGS Chapter and is responsible for advocating the use of geosynthetics in India and its widespread use. Dr. Varma has held important offices at the international level. He was Secretary-General of the International Water Resources Association (IWRA) from 1982 to 1984, Vice-President of the International Commission on Large Dams (ICOLD) from 1991 to 1994, and has been a Member of the Administrative Council of the International Conference on Large High Voltage Electric Systems (CIGRÉ) since 1973.

Mr. Arnstein Watn



Mr. Watn is a Senior Scientist at SINTEF Civil and Environmental Engineering, an independent research institute at the Norwegian University of Science and

Technology (NTNU), Trondheim, Norway. He obtained his M.Sc. in Geotechnical Engineering from NTNU in 1981 and had previously been working as a consulting engineer (Kummeneje A/S) and public authority (Municipality of Trondheim). He has been working with geosynthetics for more than 15 years and, for the last 10 years, he has been carrying out geosynthetics research. He has published more than 50 research papers in national and international journals and conferences. Mr. Watn is the Vice-President of the Norwegian Geotechnical Society (NGF), where he leads the geosynthetic committee. He is also a Member of the Nordic Geosynthetic Group (NGG). He is an active member of different international committees such as CEN TC 189 (Geotextiles and Geotextile-Related Prod-

ucts), CEN TC 288 (Execution of Special Geotechnical Works)/WG 9 (Installation of Reinforced Earth Structures), ISO TC 38 (Textiles)/SC 21 (Geotextiles), and ISSMGE TC 9 (Geosynthetics and Earth Reinforcement).

Mr. Guy R.A. Watts



Mr. Watts is a Senior Geotechnical Engineer at the Transport Research Laboratory, UK, and previously he worked in the construction industry. He undertakes earthworks and soil structures research. A large portion of this research concerns the durability of geosynthetics and, in particular, the effect of installation damage on in-service performance. He is the author of numerous reports and has presented several papers at international conferences. Mr. Watts has been an enthusiastic IGS Member for many years and was Chair of the UK IGS Chapter for the last two. He was a Member of the Paper Selection Committee for *EuroGeol* and a Session Chair at the *Sixth International Geosynthetics Conference*. He is very keen that the IGS should continue to develop its strong position in the world-wide construction industry. He is actively involved in implementing CEN Standards for testing geosynthetics and, if elected, would assist the European Chapters in attracting increased membership by providing active support to the IGS European Activity Committee.

Mr. Helmut Zanzinger



Mr. Zanzinger studied Civil Engineering, majoring in geotechnics at the Technical University of Karlsruhe, Karlsruhe, Germany, where he received the degree Diplom-Ingenieur in 1988. He joined the staff of LGA-Geotechnical Institute at Nuremberg, a German research, testing, and consulting organisation, where he works as an Engineer on different geotechnical engineering projects (earthworks, landfills, and foundations). During the past 10 years, he has chiefly been involved in research, product development, design, and quality management of geosynthetics. He is the author of 40 scientific and technical papers. Currently, as Director of LGA-Geotechnical Institute, he plans on continuing to work full-time on geosynthetics, focusing on testing, product certification, and research. Mr. Zanzinger has been a German Geotechnical Society (DGGT) Member since 1991 and a German IGS Chapter Member since 1994. He works on several national and international technical committees such as DIN and CEN TC 189 (Geotextiles and Geotextile-Related Products), where he is Convenor of WG 2 and, thus, responsible for terminology. In 1994, he organised *The First International GCL Symposium* in Nuremberg, Germany, together with Drs. Robert M. Koerner and Erwin Gartung. He has been an Editorial Board Member for the journal *Geosynthetics International* since 1998.

Dr. Jorge G. Zornberg



Prof. Zornberg, Ph.D., P.E., is a Geotechnical Engineering Faculty Member at the University of Colorado at Boulder, USA. He earned his B.Sc. from the Universidad Nacional de Córdoba, Argentina, his M.Sc. from PUC-Rio, Rio de Janeiro, Brazil, and his Ph.D. from the University of California at Berkeley, USA. Before joining the University of Colorado, he was a Project Engineer at GeoSyntec Consultants, USA. He is a registered Professional Engineer with over 12 years experience in both research and practice involving reinforced soil technology, design and analysis of waste containment facilities, and numerical and physical (centrifuge) modeling. His professional services include: Editorial Board Member of the *Journal of Geotechnical and Geoenvironmental Engineering*, Member of the Steering Committee for the *GeoDenver 2000 Congress* (American Society of Civil Engineers, ASCE), Member of ISSMGE TC 9 (Geosynthetics and Earth Reinforcement Committee), Chair of the Los Angeles Subcommittee on Reinforced Soil Slope Design (ASCE), and Editor of the upcoming *Geotechnical Special Publication on Geosynthetics* (ASCE). He has authored over 40 technical publications on geotechnical and geosynthetics engineering. Dr. Zornberg received the 1996 Young IGS Member Award.

IGS Student Awards

The IGS has established a Student Award in order to disseminate knowledge and to improve communication and understanding of geotextiles, geomembranes, related products, and associated technologies among young geotechnical and geoenvironmental student engineers around the world.

The first IGS Student Awards period is 1999-2000. Awards will be assigned in the year 2000, in conjunction with *GeoA-*

sia 2000 (Selangor Darul Ehsan, Malaysia, 29 to 31 May 2000) and *EuroGeo2* (Bologna, Italy, 15 to 18 October 2000).

The Award will consist of a cheque of US\$1,000 for each winner. This award amount must be used to cover conference participation costs (i.e. registration fee, travel, accommodation, etc.).

An IGS Student Award will be assigned only to one student per Chapter;

the selected student should be a M.Sc. or Ph.D. student. Students must be no older than 35 in the year the award is granted.

The winning students from the Asian (China, India, Indonesia, Korea, Japan, South East Asia, and West Pacific) and North American IGS Chapters will attend *GeoAsia 2000*.

The winning students from European, African, and South American IGS

Chapters (France, Germany, Italy, the Netherlands, Romania, Spain, UK, South Africa, and Brazil) will attend *EuroGeo2*.

Each National (or Regional) Chapter will be responsible for the selection of the winning student. The name of the successful student, together with the contact address, must be e-mailed or faxed to the IGS Secretariat 30 days prior to the Con-

ference for which the Award will be applied, i.e. 29 April 2000 for *GeoAsia 2000* and 15 September 2000 for *EuroGeo2*.

The organisers of the Conferences associated with the IGS Student Award shall organise a session and/or a social event to recognise the student winners and to promote personal communications among the winners of the Award and the other Conference participants.

The second IGS Student Award period will be 2001-2002 and awards will be assigned in the year 2002. All successful candidates will attend the *7th International Conference on Geosynthetics* (Nice, France, 22 to 27 September 2002).

reported by Daniele Cazzuffi,
IGS Vice-President and
Peter Stevenson, IGS Secretary

Geosynthetics Asia 2000 (GA2000) — May 2000

Conference Date and Venue

The Conference will be held at the Palace of The Golden Horses on 29 to 31 May 2000, in Selangor Darul Ehsan, Malaysia.

Paper Topics

The following topics will be addressed: soil reinforcement, roads, railways, foundations; Drainage, Filtration, Dams, Canals, Coastal and Riverbank Protection; Waste Containment and En-

vironmental Applications; Design Standards, Installation, Innovative Solutions and Case Histories; Geosynthetics Testing and Quality Control.

Official Language

English is the official language and all papers will be written in English.

Exhibition

A technical exhibition will be organised as an integral part of the Conference.

Project experience, product solutions, new applications, and state-of-the art information will be highlighted.

Conference Organisers

The Conference is jointly organised by: The Institution of Engineers, Malaysia (IEM); and the IGS Southeast Asia Chapter (SEAG-IGS).

Contact

See the contact information on p. 12.

EuroGeo2, Second European Conference on Geosynthetics

Conference Date and Venue

EuroGeo2, the *Second European Geosynthetics Conference and Exhibition* will be held in Bologna, Italy, 15 to 18 October 2000.

Conference Themes

The following topics will be addressed: products (testing, analysis, and design),

applications, monitoring, and education and teaching.

Official Language

English is the official language for both papers and oral or poster presentations. Simultaneous translation into French, German, and Italian will be organised.

Conference Organisers

The Conference is organised by the Italian Geotechnical Society (AGI) and the Italian IGS Chapter.

Contact

See the contact information on p. 12.

International Symposium on Earth Reinforcement IS Kyushu 2001 — Call for Papers

Introduction

The International Symposium on Earth Reinforcement, IS Kyushu 2001, is a continuation of the three previous international symposia *IS Kyushu '88*, '92, and '96, which provided successful contributions to the development of earth reinforcement.

The aims of these Symposia are to discuss various problems and topics on earth reinforcement for the benefit of collecting and exchanging knowledge concerning recently developed techniques and to spread this knowledge to all countries for further development. Recently, global standardisation has be-

come a key issue for testing and design methods around the world and new design concepts such as limit-state design and performance-based design have been discussed. Under these circumstances, it is the right time to discuss the international standardisation of earth reinforcement techniques. The Sympos-

sium will provide an excellent opportunity for all participants to join in meaningful discussions on these topics. Also, a large amount of field data of long-term performance under severe loading conditions will be available.

Date and Venue

IS Kyushu 2001, will be held in Fukuoka, Kyushu, Japan, 14 to 16 November 2001.

The Symposium will be held under the auspices of the Japanese Geotechnical Society (JGS) and the International Society for Soil Mechanics and Geotechnical Engineering Technical Committee No. 9 (ISSMGE TC 9, Geosynthetics and Earth Reinforcement) with support from the IGS.

Themes

The Symposium will cover earth reinforcement techniques for the following structures: embankments, walls, foundations, and slopes and excavations.

Emphasis will be placed on the following topics:

- standardisation of testing methods,
- standardisation of design methods,
- limit-state design/performance-based design,
- numerical methods for designs,
- long-term performance under severe loading,
- monitoring systems, and
- case histories and databases.

Program

The three-day Symposium will include: special and keynote lectures; oral presentations and discussions; summary

discussions; poster presentations; and technical exhibitions.

Special Lecture

“Recent full-scale testing of reinforced soil walls and implications to design” by *Prof. Richard J. Bathurst (Canada)*

Keynote Lectures

“Insights from consideration of case histories involving reinforced embankments, slopes and walls” by *Prof. R. Kerry Rowe (Canada)*

“Issues facing reinforced soil structures in Asia” by *Mr. Chris Lawson (Malaysia)*

“Earth reinforcement practice for natural slope” by *Mr. Minoru Hirano (Japan)*

“Application of geosynthetics for retaining wall slopes for long term performance” by *Mr. Guy R.A. Watts (UK)*

“An outlook on recent research and development concerning long-term performance and extreme pressure” by *Dr. Osamu Murata (Japan)*

Call for Papers

Authors are invited to submit abstracts in English of approximately 300 words in length, on any topics relevant to the Symposium themes.

A one page abstract with a paper title and authors’ names, affiliation, mailing address, telephone and facsimile numbers, and e-mail address should be provided at the top of the page.

The abstract should clearly state the purpose and conclusions of the full paper. Both abstracts and papers will be reviewed by the Technical Committee of *IS Kyushu 2001*.

Important Dates

- *Abstracts due:* 30 September 2000
- *Papers due:* 28 February 2001
- *Paper acceptance:* 30 April 2001

Official Language

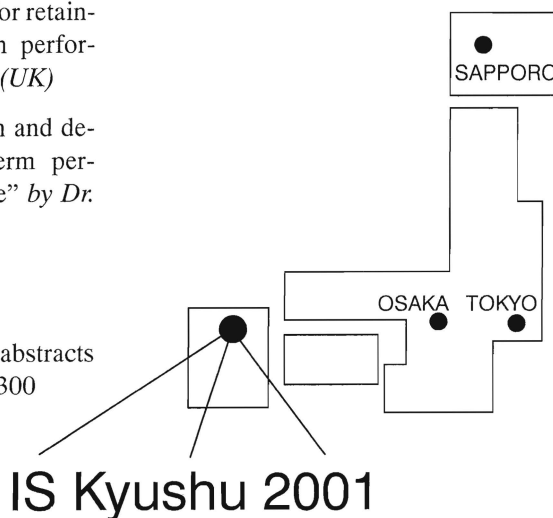
English

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Direct all correspondence to:

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Special Session on *Earth Reinforcement Techniques in Asia* 11th Asian Regional Conference (ISSMGE) Held on 19 August 1999, Seoul, Korea

The Special Session on *Earth Reinforcement Techniques in Asia - Current Topics in Asia and New Hori-*

zons for 21st Century was held during the 11th Asian Regional Conference on *Soil Mechanics and Geotechnical Engi-*

neering in Seoul, Korea, 19 August 1999 by Technical Committee No. 9 (TC 9, Geosynthetics and Earth Reinforce-

ment) of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE). The Japanese Geotechnical Society (JGS) was the Host Member Society for TC 9 and Prof. Ochiai of Kyushu University, Japan, was elected Committee Chair.

Approximately 100 researchers and engineers attended the Special Session, making it one of the most successful activities of TC 9. It is hoped that this Special Session will be a milestone for the topic of earth reinforcement, not only in Asia, but all around the world. All of the reports were published in a special volume of the 11th Asian Regional Conference proceedings (edited by H. Ochiai and J. Otani). The contents of this special volume will be discussed during the upcoming *IS Kyushu 2001* conference, 14 to 16 November 2001, in Fukuoka, Japan.

The Special Session was mainly organised by TC 9/SC 1 (Case History and Data Base), which is chaired by Mr. Chris Lawson. There were six, 20-minute reports on the topic of earth reinforcement techniques in Asia.

The Special Session was introduced by Prof. Ochiai (Japan), and the Special Session itself was chaired by Dr. Kuwano (Japan). The following papers were presented:

- "A State-of-the-Art Report on Soil

Reinforcement in Turkey" by E. Güler (Turkey)

- "Earth Reinforcement Studies and Practices in India" by M.R. Madhav (India)
- "Earth Reinforcement Techniques with Geosynthetics in ASEAN Region" by C.R. Lawson (Malaysia)
- "The Application of Geosynthetics in Hong Kong" by K.C. Yeo (Hong Kong/China)
- "Application of Geosynthetics and Earth Reinforcement Techniques in Korea" by S.D. Cho and E.C. Shin (Korea)
- "The Current Status and Outlook for Soil Nailing in Japan" by S. Tayama and Y. Kawai (Japan)

After the paper presentations, three short presentations were given by Prof. D. Bergado (Thailand), Dr. T. Uchimura (Japan), and Prof. C. Yoo (Korea), which were followed by a discussion session on the current state and future of earth reinforcement techniques.

The Discussion Session was chaired by Mr.

Lawson (Malaysia) and Dr. Otani (Japan). At the end of the Discussion Session, Mr. Lawson concluded that, in Asia, it is expected that the use and development of earth reinforcement techniques will increase in the 21st Century.

After the Discussion Session, the IGS Korean Chapter hosted a wonderful Korean dinner. On behalf of ISSMGE TC 9, I would like to thank the Korean IGS Chapter for their kind hospitality.

*Reported by Juni Otani
Secretary of ISSMGE TC 9*



Individuals at the dinner following the Special Session (left to right): Mrs. Kuwano, Dr. Tayama, Dr. Otani, *, Dr. Kuwano, *, colleague of Dr. Heerten, Prof. Ochiai, Dr. Heerten, Prof. Güler, Dr. Yeo, *, *, Dr. Cho, and *.

(Note: * represents a Korean IGS Chapter Member.)

Geosynthetics International

An Official Journal of the IGS

Geosynthetics International 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, behavior, performance analysis, testing, design, construction methods, case histories, and field experience.

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"Bearing Capacity of a Geotextile-Reinforced Unpaved Road as a Function of Deformation: A Model Study", N. Som and R.B. Sahu

"A Comparison of the Response of Geosynthetics in the Multi-Axial and Uniaxial Test Devices", J.D. Bray and S.M. Merry

"Filtration Performance Testing of Geotextiles for Vacuum Consolidation Drains", W. Haegeman and W.F. Van Impe

"Comparative Model Study of Geosynthetic Pull-Out Response", N. Gurung and Y. Iwao

Volume 6, No. 2 (1999)

"Geotextile-Reinforced Embankments on Soft Clays - Effects of a Foundation Soil Crust Strengthened by Lime Diffusion", A. Edinçliler and E. Güler

"Survivability of Nonwoven Geotextiles on Open-Graded Crushed Aggregate", C.B. Elvidge and G.P. Raymond

"High Altitude Exposure Testing of Geotextiles in the Peruvian Andes", D.G. Grubb, S.C.J. Cheng, and W.E. Diesing III

"Elastic Settlements of Circular Footings on Geosynthetic-Reinforced Soil", N.K. Pitchumani and M.R. Madhav

Volume 6, No. 3 (1999)

"Unconfined Versus Confined Testing of Geosynthetics", A. Sawicki and W. Świdziński

"Dynamic Properties of EPS Geofoam: An Experimental Investigation", G.A. Athanaspoulos, P.C. Pelekis, and V.C. Xenaki

"Influence of Geogrid Reinforcement on Lateral Earth Pressures Against Model Retaining Walls", Y. Tsukamoto, K. Ishihara, T. Higuchi, and H. Aoki

"Effect of Shear Displacement Rate on Internal Shear Strength of a Reinforced Geosynthetic Clay Liner", H.T. Eid, T.D. Stark, and C.K. Doerfler

Geotextiles and Geomembranes

An Official Journal of the IGS

Geotextiles and Geomembranes is ahead of schedule with the posting of Volume 17 (1999), Nos. 5 & 6 (a special issue on filtration with Dr. Jean Lafleur as Special Editor) in August 1999. Preparation is well underway for Volume 18 (2000), which will include a special issue on GCLs with Dr. Malek Bouazza as Special Editor.

Dr. Jean-Pierre Gourc is planning to prepare a Special Issue on Erosion. If you are interested in contributing to this special issue, please contact Dr. Gourc at the address on p. 15, or by e-mail: gourc@ujf-grenoble.fr

The Editorial Board Members and reviewers have worked very hard over the past year to provide detailed, constructive reviews in a very timely manner. The average review period is less than three months. Papers come from a wide range of countries with approximately a third of the papers coming from the Americas, Europe, and the rest of the world. The rejection rate is 44%. The Journal's Editor and Board Members are extremely appreciative of the authors' hard work in addressing the

reviewers' comments and the quick return of revised papers.

All technical contributions and inquiries should be directed to:

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Geotextiles and Geomembranes
Department of Civil and Environmental Engineering
The University of Western Ontario
London, Ontario, N6A 5B9, Canada
Fax: 1/519-661-3942
E-mail: r.k.rowe@uwo.ca

Authors should submit four copies of any paper for review by at least two reviewers. No original figures should initially be included.

Recent Contents

Volume 17, No. 1 (1999)

"Effects of backfill on the performance of GRS retaining walls", S.M.B. Helwany, G. Reardon, and J.T.H. Wu

"Analysis of geosynthetic lining systems (GLS) undergoing large deformations", P. Villard, J.P. Gourc, and N. Feki

"Rheological model of geosynthetic-reinforced soil", A. Sawicki

"Creep of geosynthetic reinforced soil retaining walls", A. Sawicki

Volume 17, No. 2 (1999)

"A dynamic uniaxial wide strip tensile testing of two geotextiles in isolation", E. Güler and M.S.T. Biro

"Behavior of waves in high density polyethylene geomembranes: a laboratory study", T. Soong and R.M. Koerner

"Overview of field installation procedures for paving fabrics in North America", M.L. Mariefeld and S.K. Guram

"Discussion: 'Effect of wall geometry on the behavior of reinforced soil walls'", A. Porbaha

"Reply to the discussion by A. Porbaha on the paper: 'Effect of wall geometry on the behavior of reinforced soil walls'", S.K. Ho and R.K. Rowe

Volume 17, No. 3 (1999)

"Reinforced embankments over soft foundations under undrained and partially drained conditions", R.K. Rowe and A.L. Li

"Force-displacement compatibility for reinforced embankments over soft clay", M. Sribulov

"Pull-out test analysis for geo-reinforcement", N. Gurung and Y. Iwao

"Behaviour of sand confined with single and multiple geocells", K. Rajagopal, N.R. Krishnaswamy, and G.M. Latha

"Flexible polypropylene geomembrane case histories", B. Alam Shah

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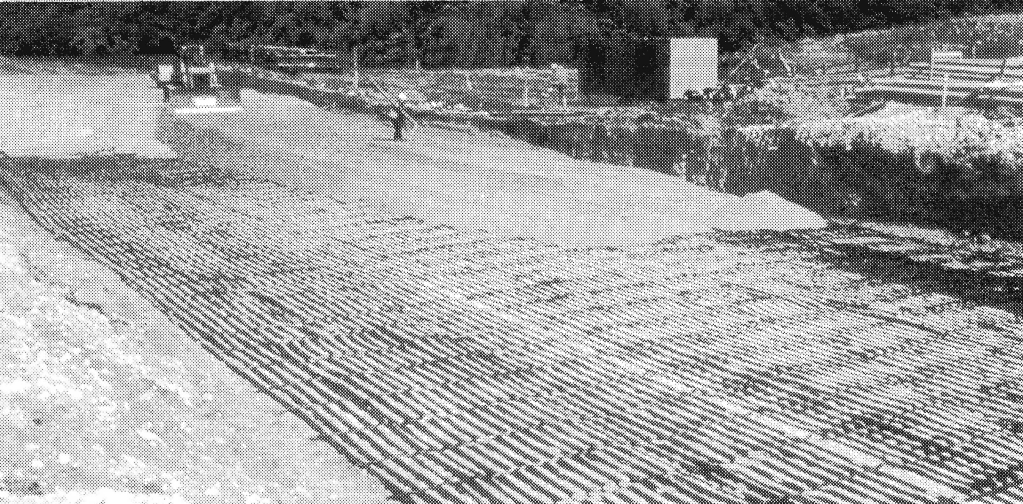
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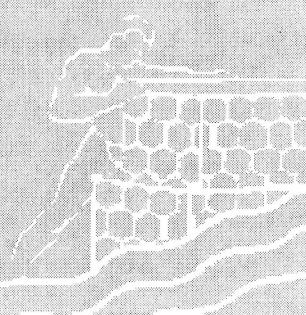


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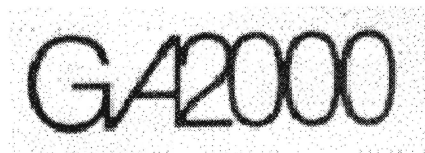
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Fax: 1 (613) 993-7250
E-mail: pierre.lamoureux@nrc.ca

International Symposium on Physical Modeling & Testing in Environmental Geotechnics, La Baule, France
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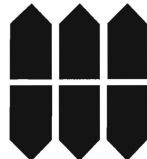
Geosynthetics Asia 2000 (GA2000)
Selangor Darul Ehsan, Malaysia
29-31 May 2000



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Chair of Geofilters 2000
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Helsinki, Finland
7-9 June 2000



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NGM 2000 Hans Rathmayer
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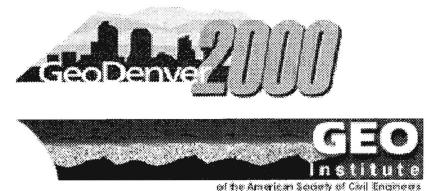
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12-14 September 2000
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Bologna, Italy
15-18 October 2000
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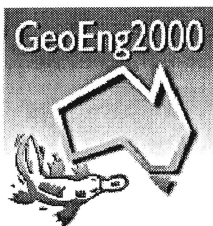
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<http://web.utk.edu/~tancon>
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19-24 November 2000



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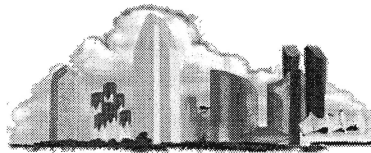
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12-14 February 2001



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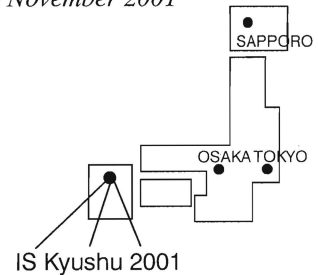


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International Symposium on Earth Reinforcement (IS Kyushu 2001)
Fukuoka, Kyushu, Japan
14-16 November 2001



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Rio de Janeiro, Brazil
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- Fibertex A/S** *Denmark (1984)*
- Field Lining Services**
Panama (1998)
- Fiti Testing and Research Institute** *Korea (1997)*
- Fritz Landolt Ag**
Switzerland (1985)
- Geodesign Co., Ltd.** *Japan (1999)*
- Geofabrics Ltd.** *UK (1995)*
- Geofelt GmbH** *Austria (1996)*
- Geosynthetic Materials Association** *USA (1985)*
- Geotechnics Holland B.V.**
Netherlands (1991)
- Geotop Corporation**
Japan (1994)
- GSE Lining Technology, Inc.**
USA (1988)
- Hong Leong Plastics Pte Ltd.**
Singapore (1994)
- Huesker Synthetic GmbH & Co.**
Germany (1987)
- Integrated Geotechnology Institute Limited** *Japan (1998)*
- Ipetex, S.A.** *Portugal (1999)*
- Japan Spunbond Toray Industries**
Japan (1984)
- Juta a.s.** *Czech Republic (1998)*
- Kajima Technical Research Institute** *Japan (1985)*
- Kumagai Gumi Co., Ltd.**
Japan (1987)
- Kuraray Co., Ltd.** *Japan (1989)*
- Lys Fabrics S.A.** *Belgium (1998)*
- Maccaferri de Perú S.A.C.**
Peru (2000)
- Maccaferri do Brasil Ltda.**
Brazil (1998)
- Maeda Corporation** *Japan (1988)*
- Maeda Kosen Co., Ltd.**
Japan (1992)
- Mecaroute S.A.** *France (1996)*
- Mitsubishi Kagaku Sanshi Corporation** *Japan (1992)*
- Mitsui Petrochemical Industrial Products Ltd.** *Japan (1992)*
- Naue Fasertechnik GmbH & Co. KG** *Germany (1987)*
- Nippon Zeon Co., Ltd.**
Japan (1992)
- Nittoc Construction Co., Ltd.**
Japan (1994)
- Obayashi Corporation**
Japan (1988)
- Officine Maccaferri S.P.A.**
Italy (1997)
- Okasan Livic Co., Ltd.**
Japan (1984)
- Geosistemas Pavco S.A.**
Colombia (1991)
- Polyfelt Ges.m.b.H** *Austria (1984)*
- Poly-Flex, Inc.** *USA (1996)*
- Presto Products Company Geosystems Division** *USA (1996)*
- The Reinforced Earth Co.**
USA (1989)
- Reliance Industries, Ltd.**
India (1998)
- Serrot International, Inc.**
USA (1992)
- Sewon Geosyntech Co., Ltd.**
Korea (1997)
- Shimizu Corporation** *Japan (1990)*
- Solmax International, Inc.**
Canada (1997)
- Steel Dragon Enterprise Co., Ltd.**
Taiwan (1996)
- SAGP (Swiss Association of Geotextile Professionals)**
Switzerland (1984)
- SVUG** *Czech Republic (1993)*
- Synthetic Industries Inc.**
USA (1991)
- Taiyo Kogyo Co., Ltd. (Ocean)**
Japan (1996)
- Taiyo Kogyo Corporation (Sun)**
Japan (1991)
- Tanaka Co., Ltd.** *Japan (1993)*
- TC Mirafi** *USA (1998)*
- Tele Textiles AS** *Norway (1995)*
- Tenax SpA** *Italy (1991)*
- Ten Cate Nicolon B.V.**
Netherlands (1984)
- Tenox Corporation** *Japan (1998)*
- Tensar Corporation, The**
USA (1989)
- Tensar International** *UK (1989)*
- Terram Ltd.** *UK (1988)*
- Thai Nam Plastic Public Co., Ltd.**
Thailand (1994)
- Tokyu Construction Co., Ltd.**
Japan (1984)
- Werkos** *Croatia (1999)*

Note: date is earliest year of continuous membership.

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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 a Member of the IGS 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 associated technologies; and
- participate in a forum for designers, manufacturers, and users, where new ideas can be exchanged and contacts improved.

Second, to enjoy the benefits.

The following benefits are now available to all IGS Members:

- a directory of Members, the *IGS Directory*, published every year, with addresses, telephone, e-mail, and fax numbers;
- the newsletter, *IGS News*, published three times a year;
- a reduced purchase price on all documents published by the IGS;
- a reduced registration fee and preferential treatment at all conferences organized under the auspices of the IGS;
- a reduced subscription fee for IGS-endorsed journals; 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 or 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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