

IGS NEWS



NEWSLETTER OF THE INTERNATIONAL GEOSYNTHETICS SOCIETY

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

VOLUME 18, NO. 2

JULY 2002

Seventh International Conference on Geosynthetics Nice, France, 22 to 27 September 2002

The *Seventh International Conference on Geosynthetics (7ICG)*, which will be held on 22 to 27 September 2002 in Nice, France, is rapidly approaching.

The IGS Conferences are intended to benefit all experts working in the geosynthetics field, whether researchers or academics, designers, contractors, engineers, or operators. In the space of just a few days, both scientists and practitioners will be able to gather information that it would normally take several months to find.

Embracing the future and innovation are fundamental aspects of the *7ICG*. A great deal of emphasis will be placed on young and up-and-

coming authors, and on papers presenting techniques that are innovative or that explore new geosynthetics applications.

The focus of the Conference is the scientific programme. The role of the following five-member International Selection Committee (ISC) was con-

sidered critical for the success of the Conference: D. Cazzuffi, J. Greenwood, M. Heibaum, D. Leschinsky, and F. Tatsuoka.

The second ISC meeting was recently held in Paris, France on 14 to 15 June 2002, where ISC Members were welcomed by J.P. Gourc, Scientific Chair, H. Girard, Scientific Secretary, and Ph. Bourdeau, International Relations. The work of the ISC was strongly supported by the General Secretary, in particular M.N. Renard, G. Bajard, and J.L. Abrlé.



Attendees of the second meeting of the International Selection Committee (ISC) in Paris, France, 14 to 15 June 2002 (left to right): F. Tatsuoka (ISC), J. Greenwood (ISC), H. Girard (Scientific Secretary), M. Heibaum (ISC), G. Bajard (General Secretary), Ph. Delmas (Conference Chair), M.N. Renard (Organising Committee), D. Cazzuffi (ISC), Ph. Bourdeau (International Relations), J.P. Gourc (Scientific Chair), D. Leschinski (ISC).

Inside this Issue of IGS News

- ☛ IGS Ordinary General Assembly, p. 4
- ☛ IGS Mini Lectures CD-ROM, p. 4
- ☛ *Geosynthetics 2003* Conference, p. 5
- ☛ *Sardinia 2003* Conference, p. 5



- ☛ *IC-FSM2003* and *IW-Flows2003*, p. 6
- ☛ *IS Kyushu 2001*, Success in Japan, p. 7
- ☛ *IS Nuremberg 2002* Synopsis, p. 8
- ☛ Corporate Profiles, p. 11

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

The first item of the meeting agenda was dedicated to the status of the scientific organization of the Conference. More than 290 papers were reviewed and accepted, representing a large number of different countries (**Table 1**).

At the end of the meeting, Ph. Delmas, Chair of the Organizing Committee, joined the group to finalise the Conference Programme.

The Programme covers a wide variety of subjects having no less than four Keynote Lectures and the Giroud Lecture, 20 General Sessions, and 16 Special Sessions, which are workshops that took several months to organize and are led by previously selected Leaders/co-Leaders (**Table 2**).

To provide each author the maximum opportunity to display their work the following will be offered:

- Posters will be displayed throughout the duration of the Conference (not as frequently during one day), at a highly visible location at the front of the Exhibition Hall where the aperitif will be served.
- Oral presentations in the General Sessions will be limited to eight minutes (eight presentations per session), using exclusively MS PowerPoint presentations.
- Four sessions (General or Special Sessions) will be organized in parallel. To accommodate participants who may be interested in two or more simultaneous sessions, PowerPoint presentations of every session will be available for viewing during the Conference in specific rooms.

Table 1. Number of papers to be presented at the 7ICG by country.

ALGERIA	2	GREECE	5	ROMANIA	3
AUSTRALIA	11	INDIA	7	RUSSIA	1
AUSTRIA	3	IRAN	3	SINGAPORE	9
BANGLADESH	3	IRELAND	3	SLOVAKIA	2
BELGIUM	3	ITALY	14	SOUTH AFRICA	6
BRAZIL	31	JAPAN	39	SPAIN	3
CANADA	15	KOREA	7	SWEDEN	1
CHINA	37	KUWAIT	1	SWITZERLAND	3
CROATIA	1	LUXEMBOURG	1	TAIWAN	12
CZECH REPUBLIC	4	MALAYSIA	4	THAILAND	5
DENMARK	1	MOROCCO	1	THE NETHERLANDS	12
EGYPT	1	NEW ZEALAND	1	TUNISIA	3
FINLAND	3	NORWAY	5	TURKEY	1
FRANCE	48	POLAND	6	UNITED KINGDOM	28
GERMANY	36	PORTUGAL	3	USA	69

The provisional Programme is presented below. The parallel sessions are classified according to the following four general topics during the week:

- geotechnical engineering and reinforced structures,
- environmental engineering,
- transportation and hydraulic engineering, and
- geosynthetics properties.

Programme

The Conference Programme has been carefully planned such that attendees can easily find presentations of interest to them.

The updated list of technical contributions and the updated Programme is

published on the Conference website (see end of article for the website).

To facilitate the introduction of newcomers to the geosynthetics world, an introductory training course has been organised for Saturday, 22 September 2002 under the leadership of H. Brandl (Austria) with the assistance of J. Bowders (USA), N. Dixon (UK), and D. Vidal (Brazil).

An exhibition of geosynthetic products, technologies, and services will be held in parallel and will bring together over 70 exhibitors from 21 countries around the world, presenting the latest products as well as pursuing and building on exchanges of ideas and contacts between companies, experts, and users.

Specific promotion of the Exhibition has been organised to attract outside visitors from surrounding countries who normally do not attend the IGS Conferences. In this respect, opportunities have been given to Exhibitors to provide specific technical presentations during the sponsored sessions. Being promotional presentations, they are nevertheless under the control

Table 2. Special Sessions at the 7ICG.

Session Topic	Session Leader (s)
Dams	P. Royet (France), D. Cazzuffi (Italy)
Geosynthetic containers	M. Heibaum (Germany), M.K. Breteler (Netherlands)
Railways	P. Godart (Belgium)
Seismic stability of reinforced soil walls: case histories	F. Tatsuoka (Japan), H. Ling (USA)
Seismic stability of reinforced soil walls: new applications, design, and practice	F. Tatsuoka (Japan), H. Ling (USA)
Geosynthetic design software	D. Leshchinsky (USA), R.H. Chen (Taiwan)
Reinforced embankments on piles	C. Jones (UK), C. Lawson (Malaysia)
Embankments in zones prone to subsidence	J.-C. Blivet (France), V. Rao (India)
Clay geosynthetic barriers	H. Zanzinger (Germany), A. Cancelli (Italy)
Geomembrane liners on steep slopes and walls	I. Peggs (USA), H.-Y. Jeon (Korea)
Interface friction: peak, residual, or in-between	R. Koerner (USA)
Long-term durability	A. Bezuijzen (Netherlands), D. Suits (USA)
Creep, rupture, and accelerated testing under load	J. Greenwood (UK), S. Thorton (USA)
Retention capability and clogging of geotextiles	J. Lafleur (Canada), W. Wolski (Poland)
Geomembrane selection for landfills	J.P. Giroud (USA), N. Touze-Foltz (France)
IGS student session	A. Rollin (Canada)
Video-show (live from United States): Load testing of full-scale reinforced abutments	M. Adams (USA)



of the Scientific Committee, who have ensured the technical level of the Conference presentations. To date, many events have been sponsored by more than 63 companies or

organisations.

A gala evening, in traditional French style and full of surprises, will be held on Thursday evening near Nice. For the sporting-minded, the traditional football match will be held on Tuesday evening and will be followed by a "Pétanque" game and an informal din-

ner. A mini marathon is scheduled for the Sunday morning. Please register for these activities as soon as possible.

A number of wonderful activities for accompanying persons will be offered every day during the Conference.

Contact Information

Conference Venue

Nice Acropolis
1 esplanade Kennedy
BP 4083
06302 Nice cedex 04
Tel: 33/0 4 93 92 83 52
Fax: 33/0 4 93 92 83 48
<http://www.nice-acropolis.com>

Conference Secretariat

7ICG - Nice2002
BP 100
95873 Bezons Cedex, France
Tel: 33/0 1 30 76 47 75
Fax: 33/0 1 30 76 48 18
E-mail: co@7icg-nice2002.com
<http://www.7icg-nice2002.com>

*reported by Philippe Delmas
(Conference Chair and IGS Council Member), Jean Pierre Gourc
(Scientific Chair and IGS Council Member), and Daniele Cazzuffi
(International Selection Committee and IGS Vice President)*

Events and scientific program for the Seventh International Conference on Geosynthetics, 7IGC.

		General Sessions		Special Sessions			
Friday	Saturday	Sunday 22	Monday 23	Tuesday 24	Wednesday 25	Thursday 26	Friday 27
						IGS Council	
		09:00	Keynote Lecture: LANDFILLS	Keynote Lecture: DAMAGE TO GEOSYNTHETICS	Keynote Lecture: FILTRATION	Keynote Lecture: MODELLING SOIL-GEOSYNTHETIC INTERACTION	
			Coffee break	Coffee break	Coffee break	Coffee break	
			Seismic Stability of RSW (I): Case Histories	Geosynthetic Design Software	Reinforced Embankments on Piles	Micro-Reinforcement and Element Tests	
			Geomembranes for Landfills	Landfill Barriers, Hydraulic Behaviour	Geomembrane Liners on Steep Slopes and Walls	Erosion Control	
			Geosynthetics, Market, and Quality	Geotextiles Filters and Drains	Retention Capacity and Clogging of Geotextiles	Railways	
			Creep and Durability	Embankments in Zones Prone to Subsidence	Long-Term Durability	Creep, Rupture, and Accelerated Testing Under Load	
			Poster Session	Poster Session	Poster Session	Lunch	
			Lunch "IGS Student Award"	Lunch "Young IGS Award"	Lunch	Lunch	
			Sponsored Technical Session	Sponsored Technical Session	Sponsored Technical Session	Clay Geosynthetic Barriers	
			Seismic Stability of RSW (II): New Applications, Design, and Practice	Interface Friction, Peak, Residual, or In-Between	Exhibition	Geosynthetic Reinforced Structures, Analysis, and Design	
			Seismic Stability of RSW: New Applications, Design, and Practice (II)	Sponsored Technical session		Drainage and Soil Consolidation Beneath Embankments	
			Waste Confinement	Reinforced Walls and Slopes	Exhibition	Drainage and Soil Consolidation Beneath Embankments	
			Pavements	Dams		Pipe Protection and Geosynthetic Containers	
			Geosynthetic Containers	Damage	Exhibition	ESPRESSO Coffee Break	
			Coffee break	Coffee break		Embankments on Soft Soil	
			Exhibition	Abutments and Foundations	Exhibition	Landfill Cap and Slope Barriers, Mechanical Behaviour	
				Reservoir and Canal Liners		Exhibition	IGS Student Session
				Railway and Road Drainage	Exhibition		Miscellaneous Mechanical Problems
				Geosynthetics Mechanical Interaction		Exhibition	"IGS Main Award" Closing Session
		19:00		Departure to Football Match	IGS General Assembly		Gala Dinner
			Welcome Cocktail	Football match			
			Companion programme	Companion programme	Companion programme	Companion programme	

Call for the IGS Ordinary General Assembly (OGA) to be held at the Seventh International Conference on Geosynthetics (7ICG)

All IGS Members are invited to attend the IGS Ordinary General Assembly (OGA), which will be held on Wednesday, 25 September 2002 in Nice, France at the 7ICG. The meeting will begin at 1600 hours.

If the required quorum of 25% of the voting membership is not present or represented at the OGA, a new OGA will be held for which the quorum rules will be suspended. In this case, the second OGA will be held on Wednesday, 25 September 2002 at 1700.

The proposed agenda for the General Assembly is as follows:

1. Opening of the OGA (IGS Members only) and welcome to the membership (President)
2. Quorum (Secretary)
3. Presentation of the procedure for the OGA and appointment of poll tellers (Secretary)

4. Approval of the minutes of the preceding OGA (Secretary) - *Vote*
5. Address and report of the IGS President
6. Report of the IGS Secretary
- 7a. Report of the IGS Treasurer
- 7b. Report of the IGS Finance Committee
- 7c. Approval of the Financial Report (Treasurer) - *Vote*
- 7d. Proposed subscription fee (Treasurer) - *Vote*
8. Approval of the Society's activities (President) - *Vote*
9. Election of the IGS President and Vice President (President)
- 10a. Presentation of the Candidate(s) for IGS President
- 10b. Election of the IGS President - *Vote*
- 10c. Announcement of the IGS President Elect

- 10d. Presentation of the Candidate(s) for IGS Vice President
- 10e. Election of the IGS Vice President - *Vote*
- 10f. Announcement of the IGS Vice President Elect
- 10g. Announcement of the IGS Council Members Elect
11. Appointment of the Financial (Audit) Committee
12. Selection of the date of the 9th International Geosynthetics Conference (2010) (to be held after the 8th International Geosynthetics Conference in Tokyo in 2006) (President) - *Vote*
13. Selection of the date and location of the next OGA (Secretary) - *Vote*
14. Other business (President)
15. Closing remarks (President)

*reported by P.E. Stevenson
IGS Secretary*

IGS Officer and Council Meetings to be held at the 7ICG, September 2002

The following IGS Council and Officer meetings will be held in conjunction with the 7ICG:

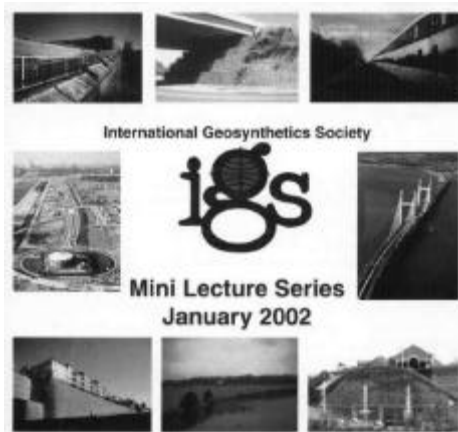
- Friday, September 20, Officers Meeting, 0900-1700
- Saturday, September 21, Council Meeting, 0900-1700
- Wednesday, September 25, IGS General Assembly, 1600-1700
- Thursday, September 26, IGS Council Meeting, time to be announced.

*reported by P.E. Stevenson
IGS Secretary*

IGS Mini Lecture Series, January 2002 – CD ROM

By now, all IGS Members should have received a copy of the CD-ROM containing 17 lectures on various aspects of geosynthetics.

The lectures have each been prepared by eminent practitioners and are intended to be used as self-teaching modules for new (and not so new) members of the industry, for students, and also as the basis for education of the wider community by means of presentations and seminars given by IGS Members.



The IGS Education Committee have guided and reviewed the lectures in preparation and believe them to be a fair and impartial guide to current practice in polymers, testing, design, and application of all types of geosynthetics.

The list of topics covered is not exhaustive and I would welcome suggestions from IGS Members for additional subjects to be covered – preferably accompanied by a nomination for a suitable author.

The CD-ROM format will allow us to easily update and add to the lectures

at regular intervals and it is hoped that in this way the content can be kept up to date and relevant to all of our Members. However, we need your regular input to ensure that changes in technology or practice are reflected in the lectures.

The Education Committee is charged with helping to achieve the major aims of the IGS namely the collection and dissemination of information and the improvement of

communication and understanding on the subject of geosynthetics. For this reason, the CD-Rom is provided in an unprotected format such that it can be copied as required and I encourage IGS Chapters to ensure that it is made available to educators and influencers throughout their territory. For improved presentation of such copies, additional printed sleeve covers can be obtained from the IGS Secretary at a nominal cost.

I look forward to receiving comments from Members on the CD and, also, suggested amendments and additions on a regular basis – the goal is to have a CD-ROM product that remains up to date as the industry continues to develop.

*reported by Jim Paul
IGS Education Committee Chair*

Geosynthetics 2003 - Educating for Engineering Solutions

11 to 14 February 2003, Atlanta, Georgia, USA

Educating for Engineering Solutions is the theme for *Geosynthetics 2003* to be held 11 to 14 February 2003 at Cobb Galleria, in Atlanta, Georgia, USA.

This theme was developed to emphasize the Conference program's focus on education.

Four tracks will highlight the *Geosynthetics 2003* education program, which will include four days of simultaneous short courses featuring geosynthetics and related materials. The four tracks will include geosynthetics, ero-

Geosynthetics 2003

sion control, emerging uses of geosynthetics, and a track to address business-related issues.

The *Geosynthetics 2003* Organizing Committee comprises the following individuals: David Suits, Conference Chair; Robert Koerner, Conference Education Chair; Sam Allen, Cooperating Organization Chair; Joseph Luna,

Conference Exhibition Chair; Don Wishon, Georgia DOT Liaison; Mike Kemp, Georgia Environmental Protection Liaison; Pat Picariello, ASTM Liaison; and Danette Fettig,

Secretary General.

For more information, contact:

Danette Fettig
Geosynthetics 2003 Secretary General
E-mail: drfettig@ifai.com
Tel: 1/651 225 6942
<http://www.ifai.com>

Sardinia 2003

S. Margherita di Pula (Cagliari), Italy, 6 to 10 October 2003

First Announcement and Call for Abstracts

Sardinia 2003, the *Ninth International Waste Management and Landfill Symposium* will be held in S. Margherita di Pula, Cagliari, Italy, 6 to 10 October 2003.

Symposium Themes

- Waste Management
- Waste Treatment Prior to Landfilling
- Sanitary Landfilling
- Special Waste Landfilling
- Aftercare and Reuse
- Remediation of Old Landfills
- Waste Management and Landfilling in Develop-

ing and Low Income Countries

Call for Abstracts

An extended abstract (at least one but no more than two full pages) should be sent by e-mail to the attention of Prof.

Raffaello Cossu, Image Department, University of Padua, Via Loredan 20 - 3513, Padua, Italy, no later than **15 November 2002** (e-mail: papers@sardiniasymposium.it).

Abstracts must show the full title of

the paper, the names and affiliations of all authors, e-mail address and full mailing address of the Leading Author, the suggested session, and the requested destination (oral or poster). The abstracts must clearly describe the content of the presen-



tation and its basis, which can be classified as one of the following:

- detailed case study,
- discussion of practical experience,
- preliminary research data,
- completed research not previously presented at a Sardinia conference
- literature review,
- administrative initiatives, and
- regulations.

Each Leading Author may submit no more than three abstracts; the sender will be considered the corresponding person with the Organisation.

Paper Acceptance

Acceptance of papers will be communi-

cated to the Leading Author by the end of **December 2002**. If notification has not been received by early January 2003, authors should check with the Organizers in case mail disruptions have occurred. Full papers (maximum of eight pages in length) should be addressed to the Organizers and received no later than **30 March 2003**. The papers will be evaluated by the Executive Programme Committee

All papers accepted for presentation at the Symposium will be published in Proceedings available at start of the Symposium.

Official Language

The official language of the Symposium will be English. All papers must

be written and presented in English. Authors will be expected to attend the Symposium and present their papers themselves.

More Information

Visit the Symposium website:
<http://www.sardiniasymposium.it>

The Organising Secretariat

Eurowaste srl
via Beato Pellegrino, 23
I-35135 Padova, Italy
Tel: 39/049 8726986
Fax: 39/049 8726987
E-mail: eurowaste@tin.it

Fast Slope Movements - Prediction and Prevention for Risk Mitigation Conference (IC-FSM2003), 11 to 13 May 2003

Occurrence and Mechanisms of Flows in Natural Slopes and Earthfills Workshop (IW-Flows2003), 14 to 16 May 2003

The Conference (Bulletin 2)

The Conference will focus on contributing to risk assessment and mitigation knowledge for land areas subjected to fast slope movements, e.g., flow-type landslides. Well-known experts will be invited to submit papers.

The Workshop (Bulletin 2)

The Workshop is aimed at clarifying the possible mechanisms, mechanics, and kinematics of flows, and at finding the common factors that determine such movements in such different materials. Well-known researchers, having different backgrounds and coming from different experiences, will contribute their knowledge. Extended discussions will be a distinctive feature of the workshop. To promote discussion on the contents of invited papers, the papers will be available on the Conference website before the Workshop.

Conference Call for Papers

The abstract should be a maximum of 300 words, in English, and clearly state the purpose, results, and conclusions of the paper. Title, authors' names, mailing address, telephone and fax numbers, and e-mail are required. Abstracts should be sent to the Scientific Secretary to the address below or by e-mail no later than **30 June 2002**. Full papers will be peer-reviewed prior to final acceptance. Accepted papers will be selected for oral presentation or poster session.

Deadlines

Abstract Submission: 30 June 2002

Preliminary Acceptance: 31 July 2002

Paper Submission: 31 October 2002

Notification of Acceptance: 15 December 2002

Final Submission: 31 January 2003

Official Languages

The official languages of both the Conference and Workshop will be English

and Italian. A simultaneous translation will be provided. Abstracts and papers will be written in English.

Conference Scientific Secretary

Conference Scientific Secretary (e-mail: fsm2003@unisa.it): Dr. Giuseppe Sorbino Dipartimento di Ingegneria Civile via Ponte Don Melillo 84084, Fisciano, Italy, Tel: 39/089 964329, Fax: 39/089 964045.

Workshop Scientific Secretary

Workshop Scientific Secretary (e-mail: flows2003@unina2.it): Dr. Lucio Olivares Dipartimento di Ingegneria Civile via Roma 29 81031, Aversa, Italy, Tel: 39/081 5010214, Fax: 39/081 5037370, e-mail: lucio.olivares@unina2.it

Further/General Information

Additional information about the Conference and Workshop will be available on the Internet: <http://www.unina2.it/fsm2003> and <http://www.unina2.it/flows2000>, respectively.

International Symposium on Earth Reinforcement IS Kyushu 2001, November 2001, Fukuoka, Japan

The *International Symposium on Earth Reinforcement, IS Kyushu*, held in Fukuoka, Japan, 14 to 16 November 2001 was a resounding success. The Symposium was held under the joint auspices of the Japanese Geotechnical Society (JGS) and the Technical Committee for Geosynthetics and Earth Reinforcement of ISSMGE (TC-9). The Symposium could not have been successfully held without the strong support of the IGS and the Japan Society of Civil Engineers (JSCE).

An IGS Council meeting was also held in Fukuoka during the Symposium. The *IS Kyushu Conference* series on “Earth Reinforcement” has been held in Fukuoka every four years since 1988. The first Symposium was titled “Theory and Practice of Earth Reinforcement” (1988), the second “Earth Reinforcement Practice” (1992), and the third “Earth Reinforcement” (1996). The Symposia have provided successful contributions toward the development of earth reinforcement practices.

The fourth Symposium, entitled “Landmarks in Earth Reinforcement”, continued the success of the *IS Kyushu Symposiums* and was also aimed at being one of the landmarks in the progress of modern earth reinforcement practice. With this objective, one special lecture and five keynote lectures were delivered by distinguished schol-

ars, in addition to accepted paper presentations in four technical sessions.

The special session on “Soil Nailing” and the summary discussion session on “Design Procedure” were also organized to summarize the results of theoretical and practical aspects developed in these areas in recent years.

More than 420 participants attended the Symposium, including approximately 100 overseas participants from 32 countries. The first volume of the Proceedings contains the 137 papers that were selected for the four technical sessions. The papers are arranged under five different categories, which cover almost all aspects in the area of earth reinforcement.

The second volume contains the



Main hall prior to the opening ceremony.

special and keynote lectures, reports of the special session on “Soil Nailing”, a summary of the discussion session on “Design Procedure”, and Chair reports of technical and discussion sessions. The report of TC-9/ISSMGE activities during the period of 1997 to 2001 are also included in Volume 2.

*reported by Noriyuki Yasufuku
IGS Member*



Opening address by Prof. H. Ochiai, Chair of *IS Kyushu 2001*.



Opening ceremony at the *IS Kyushu 2001* Farewell Party; a Japanese tradition called “Kagami-Wari”, which celebrated the successful Symposium (from left to right): Prof. H. Ochiai, Prof. R. Floss, Jean-Pierre Gourc, Richard J. Bathurst, and Prof. F. Tatsuoka.

IS Nuremberg 2002 A Success

International Symposium on Clay Geosynthetic Barriers

15 to 18 April 2002, Nuremberg, Germany

The *International Symposium on Clay Geosynthetic Barriers* was held 15 to 18 April 2002 in Nuremberg, Germany.

The Symposium was jointly organised by LGA (Nuremberg, Germany) and the Geosynthetic Institute (GSI) (Folsom, Pennsylvania, USA) under the auspices of the German IGS Chapter and the German Society of Geotechnical Engineering (DGGT).

Twenty-six oral presentations and 16 posters on all topics concerning clay geosynthetic barriers were presented at the following six sessions:

- *Applications/Case Histories*: Chair, Prof. Rudolf Floss (Germany)
- *Durability/Lifetime*: Chair, Daniele Cazzuffi (Italy)
- *Laboratory Testing*: Chair, Ian Peggs (USA)
- *Performance and Desiccation*: Chair, Prof. Kerry Rowe (Canada)
- *Regulations*: Chair, Prof. Abdelmalek Bouazza (Australia)
- *Summary and Closure*: Chair, Hans Rathmayer (Finland)

On Monday evening, 15 April, the Welcome to Bavaria was opened by Dr.



Symposium Session Chairs, Organisers, and IGS Council Members (left to right): Robert Koerner (USA), Helmut Zanzinger (Germany), Erwin Gartung (Germany), Richard J. Bathurst (Canada), Abdelmalek Bouazza (Australia), Daniele Cazzuffi (Italy), R. Kerry Rowe (Canada), Ian Peggs (USA), Hans Rathmayer (Finland), and Rudolph Floss (Germany).

Erwin Gartung (Organising Committee) and by Franz Defregger, Executive of the Bavarian State Ministry for State Development and Environmental Affairs.

On Tuesday, 16 April, the technical program was opened by Helmut Zanzinger and Prof. Robert Koerner (both on the Organising Committee), Prof. Rudolf Floss (Chair, German IGS Chapter), and Prof. Richard Bathurst (IGS President).

All contributions, lectures as well as posters, were of high scientific and technical quality. Poster Sessions received a very positive response from the participants. The venue was in a historical building in the heart of the medieval city of Nuremberg. Centuries ago the lecture hall used to be the church of the ancient Hospital of the Holy Spirit founded in 1339. For more than 350 years, the coronation treasures of the Holy Roman Empire had been retained safely in this building.

The Symposium participants enjoyed a remarkable event. The atmosphere, the organisation of the event, the interesting discussions during the breaks, and the social events in the evenings as well as the exhibition were accepted with appreciation.

The edited Symposium Proceedings have been published into a hard cover book by Balkema (399 pages). The Proceedings include a CD-ROM with all papers and convenient searching capabilities. The Symposium was held entirely in English. There were approximately 100 participants from 18 different countries including: Japan, India, Australia, South Africa, Brazil, USA,



Aurach Landfill (Germany): in the horizontal shaft.



Symposium Organising Committee (left to right): Erwin Gartung (Germany), Helmut Zanzinger (Germany), and Robert Koerner (USA).



Canada, and several European countries.

On Thursday, 18 April, a technical excursion to a municipal waste landfill near Ansbach took place. The management of a typical German landfill was explained. At the site, measurements of flows, temperature, and soil moisture content are executed by means of two large lysimeters (520 m²) each for

research into the performance of landfill cover systems. Leachate is collected at the base and subsequently re-infiltrated into the waste body for the optimisation of landfill gas production and to accelerate stabilisation of the waste. These technical features were of particular interest to visitors from abroad.

A sightseeing tour of the romantic medieval town Rothenburg above the Tauber concluded the Symposium.

The Symposium is the last event to be organised by the LGA Geosynthetic Institute, since LGA decided to terminate their very successful work in the field of geosynthetics.

The Conference Proceedings (volume with CD-Rom, \$129) can be ordered from:

Swets & Zeitlinger Publishers
P.O. Box 1675
NL-3000 BR Rotterdam
Tel: 31/10 41 45 822
Fax: 31/10 41 35 947
E-mail: order@swets.nl
<http://www.balkema.nl>, or
<http://www.szp.swets.nl>

*reported by Helmut Zanzinger,
IGS Member and Symposium
Organising Committee Member*

A Report on the International Workshop on Lightweight Geo-Materials

The first *International Workshop on Lightweight Geo-Materials (IW-LGM2002)* was held on 26 to 27 March 2002 in Tokyo, Japan under the auspices of the Japanese Geotechnical Society (Chaired by Professor K. Yasuhara, Ibaraki University, Japan). Approximately, 120 individuals from 20 countries participated.

New weight-reduction techniques for decreasing applied loads on soft ground or earth pressures on retaining walls using geo-materials have recently been developed by various organizations. However, standardisation of present design and construction methods is required. In addition, further development and understanding of mechanical properties, the development of constitutive modeling, and expanding areas of application is required.

The following topics were covered:

- mechanical properties of LGM;
- new constitutive models for analytical and numerical analysis of LGMs;
- information exchange to establish common design and construction methods;
- new concepts and applications of LGM together and new ideas for minimizing environmental impacts;
- quality control and durability issues.

Three keynote lectures were given:

- Professor T. Edil (Wisconsin University, USA)
- Dr. H. Miki (Public Works Research Institute, Japan), and
- Prof. D. Negussey (Syracuse University, USA).

A state-of-the-art report by Prof. K. Yasuhara (Ibaraki University, Japan) and panel discussions (led by Dr. A.F.L. Hyde, Sheffield University, UK)

were also presented. The final Workshop discussion session focused on the issues of cost, reduction of environmental impacts, and the mitigation of earthquake-induced damage.

The Workshop organisers would like to express sincere thanks for the voluntary co-operation of those who served as international advisors, keynote lecturers, discussion leaders, chairs, Secretary, and Committee Members.

For More Information Contact

Kazuya Yasuhara (Workshop Chair, IGS Member)
Zhishen Wu (Workshop Secretariat)
Dept. of Urban and Civil Engineering
Ibaraki University
Hitachi, Ibaraki, 316-8511, Japan
E-mail: yasuhara@civil.ibaraki.ac.jp
zswu@ipc.ibaraki.ac.jp

2001 Shamsher Prakash Bi-Annual Prize for Excellence in the Practice of Geotechnical Engineering

Dr. Neven Matasovic, Geosyntec Consultants, Huntington Beach, California, USA, has been selected to receive the 2001 Shamsher Prakash Bi-Annual Prize for Excellence in the Practice of Geotechnical Engineering. Dr. Matasovic has been cited for significant contributions

to seismic design of landfills, nonlinear seismic response and deformation analysis, and geotechnical earthquake engineering for highways. He has also contributed to the practice through the preparation of design and guide manuals for regulatory agencies.

The Foundation offers "Research Award" and "Prizes" to young engineers, scientists, and researchers, who are specialist in Geotechnical Engineering and/or Geotechnical Earthquake Engineering, and show promise of Excellence. The Award consists of cash prize US \$1,100 and a plaque.

- Previous award winners are:
- 1990 - George Gazetas (Greece)
 - 1992 - R. Kerry Rowe (Canada)
 - 1993 - D.T. Bergado (Thailand) and Shobha K. Bhatia (USA)
 - 1994 - M. Pastor (Spain) and Susumu Iai (Japan)

- 1995 - Panos Dakoulas (USA)
- 1996 - Ahmed W.M. Elgamal (USA)
- 1997 - Raymond B. Seed (USA) and Raj Sidharthan (USA)
- 1998 - Ikuo Towhata (Japan)
- 1999 - Jonathan D. Bray (USA) and Scott Steedman (UK)

- 2000 - Roberto Paolucci (Italy)
- 2001 - Ross Boulanger (USA)

Applications are judged by the Committee of International experts. For more information on the Research Award, contact Sally Prakash, Honorary Secretary, at e-mail: prakash@nov-ell.civil.umr.edu.

Geosynthetics International

An Official Journal of the IGS

G *eosynthetics 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, behaviour, performance analysis, testing, design, construction methods, case histories, and field experience.

Geosynthetics International 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. *Geosynthetics International* offers a reduced subscription rate to Individual IGS Members. Individual IGS Members can subscribe

for US\$150 per 6 issues. *Geosynthetics International* is offered to university and college libraries at US\$180 per 6 issues. The standard rate of US\$272 applies to all others.

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

Dr. T.S. Ingold, Editor
Geosynthetics International
Mulberry Lodge, St. Peters Close
St. Albans, AL1 3ES
United Kingdom
Tel: 44/1727-842433
Fax: 44/1727-845266

Professor R.J. Bathurst, Co-Editor
Geosynthetics International
(see p. 11 for complete address)

Dr. J.P. Giroud, Chair

Geosynthetics International
J.P. Giroud, INC.
5837 North Ocean Boulevard
Ocean Ridge, Florida 33435, USA
Tel: 1/561-737-1642
Fax: 1/561-733-2809

For subscriptions, contact:

Ms. Susan Smeed
Geosynthetics International
Assistant Circulation Manager
IFAI
1801 County Road B West
Roseville, MN 55113, USA
Tel: 1/612 222-2508
Fax: 1/612 631-9334

Visit the *Geosynthetics International* WWW site at <http://geo.rmc.ca/gi>

Geotextiles and Geomembranes

An Official Journal of the IGS

G *eatextiles and Geomembranes* provides a forum for the dissemination of information on geosynthetics amongst research workers, designers, users, and manufacturers. The Journal increases general awareness, prompts further research, and assists in the establishment of international codes and regulations.

The following are welcome contributions: refereed technical papers covering research, design, construction, applications, and case studies; technical notes, book reviews, reports of conferences, and meetings; and letters to the Editor. All technical papers are open to written discussion. No limit to length is set and short notes are accept-

able. Review articles may also be published at intervals, but the subject and contents of these should be discussed first with the Editor.

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 one third of the papers coming from the Americas, Europe, and the rest of the world. The rejection rate is 59%. 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:

Professor R. Kerry Rowe, Editor
Geotextiles and Geomembranes
Department of Civil Engineering
Ellis Hall, Queen's University
Kingston, Ontario, K7L 3N6
Canada
Fax: 1/613 533 2128
E-mail: kerry@civil.queensu.ca

Authors should submit four copies of their paper, which will subsequently be reviewed by at least two individuals. No original figures should initially be included.

CORPORATE PROFILE

Corporate Members of the IGS are encouraged to publish a Corporate Profile in IGS News. A maximum of three profiles can be published in each issue of IGS News. The criteria for the preparation and submission of Corporate Profiles are available from the Editor. There is no charge for having a Corporate Profile published; it is a benefit of corporate membership.

SI Corporation



SI Geosolutions is a world leader in providing geotextiles and erosion control products to the construction/civil engineering market, offering solutions that speed construction, improve cost-effectiveness, and raise the level of performance. SI products have also proven highly effective in American projects working to meet the EPA's NPDES regulations.



Landlok®

SI's Landlok® degradable erosion control blankets (ECBs) and permanent turf reinforcement mats (TRMs) promote revegetation, provide erosion protection, and improve water quality on slopes and in channels. SI's biodegradable Landlok ECBs, made from straw and coir fiber, protect seed and soil until vegetation propagates in non-critical applications. Landlok TRMs, made from polypropylene, provide permanent erosion control solutions where desired performance exceeds the limits of natural vegetation. The Landlok family also includes Pyramat® High Performance TRMs and BioLog® coir fiber logs.

Geotex®

SI's extensive line of Geotex® engineered geotextiles provides drainage, separation, and soil stabilization. Manufactured in ISO 9002-certified facilities, SI's woven and nonwoven geotextiles have proven effective in countless applications, from stabilizing subgrades on construction sites to capping and containing some of the world's largest landfills. The Geotex family also includes Pave-Dry® non-woven asphalt overlay fabric.



Geofibers®

When blended into soils, SI's polypropylene Geofibers® create an ideal reinforcement system for the repair of slope failures, reinforcement of pavement subgrades, foundation stabilization, and improvement of retaining wall backfill.

SI Corporation has been a Corporate Member of the IGS since 1991.

SI Corporation

SI is the second-largest producer of polypropylene fabrics and fibers in the world. In addition to geotextiles and erosion control solutions, the company's diverse mix of products includes concrete reinforcement fibers, carpet backing, and furniture construction fabrics. SI operates seven manufacturing facilities with approximately 2,500 employees.

For more information, visit SI Geosolutions at www.fixsoil.com or call 1-800-FIX-SOIL

CORPORATE PROFILE

Corporate Members of the IGS are encouraged to publish a Corporate Profile in IGS News. A maximum of three profiles can be published in each issue of IGS News. The criteria for the preparation and submission of Corporate Profiles are available from the Editor. There is no charge for having a Corporate Profile published; it is a benefit of corporate membership.

Honeywell



Honeywell Performance Fibers is one of the world's leading suppliers of high-tenacity polyester and a global manufacturer of other man-made industrial fibers, including nylon, PEN, Spectra® high-modulus polyethylene (HMPE)

fiber and Securus™ fiber, the new PELCO (polyester-caprolactone) fiber for seat belts and other managed load applications.

Fabrics made with our high-performance fibers and finishes including A.C.E. high tenacity polyester, low-shrink Sub-straight® polyester, Tru-Ballistic® nylon, Pentex™ fiber (polyethylene naphthalate), Spectra® fiber (HMPE), WickGard™ anti-wick finish, SeaGard® marine overlay finish, and textured Anso-tex® nylon have many diverse uses. Applications beyond geosynthetics include ballistic luggage, tents, sailcloth, marine fabrics, ropes and cordage for offshore mooring, signs, roofing, awnings, canopies, cargo tie downs, webbing, slings, armor and protective materials, cut-resistant gloves, casual furniture, and tarpaulins.

PRODUCTS FOR THE GEOSYNTHETICS INDUSTRY

Honeywell Performance Fibers offers a broad portfolio of polyester products, with global availability, specially designed for the Geosynthetic Industry.

These fiber products offer:

- High Ultimate Tensile Strength
- Superior Low Creep Strain and High Creep Rupture Performance
- Excellent Durability against chemical and environmental degradation
- Broad range of Shrinkage characteristics to fit specific application treatment temperatures
- Significant range of deniers available from 220 up to 60,000*
- High end count beam production, 54 and 72 inch widths

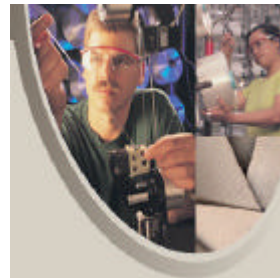
Supporting Long-Term Creep Strain and Rupture Performance, Molecular Weight and Carboxyl End Group data are available upon request.

*Higher deniers may be plied and produced through toll manufacturing arrangements.

Performance Fibers is part of Honeywell International Inc., a diversified technology and manufacturing leader, serving customers worldwide. Information about Performance Fibers is available on the Internet at www.performancefibers.com. Additional information about Honeywell can be found at www.honeywell.com.

TECHNICAL SOLUTIONS

Fiber is only the beginning at Honeywell Performance Fibers. Our research personnel and applications laboratories develop specialized polymers as well as finishes, composites and engineered yarn technologies that expand the possibilities and enhance the performance of fibers.



Honeywell Performance Fibers and/or its affiliates operate manufacturing and commercial facilities in the U.S., France, China and Korea.

The company has shown its strong commitment to the industrial fibers industry by investing significantly in its global facilities, expanding manufacturing capabilities, and developing value-added, high-end specialty products.

For more information contact:

Honeywell Performance Fibers
15801 Woods Edge Road
Colonial Heights, Virginia 23834, USA
Toll Free: 1/800 695 5969
Tel: 1/845 331 5175
Fax: 1/845 331 1431
E-mail: fiberinfo@aol.com

Honeywell has been a Corporate Member of the IGS since 2001.

Although Honeywell International Inc. believes that the suggestions regarding the possible uses of the products as well as the other statements contained in this publication are accurate and reliable, they are presented without guarantee or responsibility of any kind and are not representations or warranties of Honeywell International Inc, either express or implied. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments and the user assumes all risks and liability (including, but not limited to, risks relating to results, patent infringement and health, safety and the environment) for the results obtained by the use of the products and the suggestions contained herein.

CONFERENCES
SYMPOSIA
WORKSHOPS

CALENDAR OF EVENTS



SHORT COURSES
EXPOSITIONS
TRADE SHOWS

4th International Congress on Environmental Geotechnics Rio de Janeiro, Brazil 12-16 August 2002
Contact: Secretariat, 4ICEG-RIO 2002
c/o Dr. M.C. Barbosa, COPPE-UFRJ
Fax: 55/21 280 9545
E-mail: 4iceg@pec.coppe.ufrj.br

NUMGE 2002, Fifth European Conference on Numerical Methods in Geotechnical Engineering Paris, France 4-6 September 2002
Contact: Mme. Nathalie Soude
Tel: 33/1 44 58 27 29
Fax: 33/1 44 58 27 06
E-mail: soude@mail.enpc.fr

12th European Conference on Earthquake Engineering London, United Kingdom 9-13 September 2002
Contact: Rachel Coninx, Secretariat
Tel: 44/7665 2314
Fax: 44/20 7233 1743
E-mail: 12ECEE@ice.org.uk
<http://www.12ceee.org.uk/>

7th International Conference on Geosynthetics
Nice, France 22-27 September 2002
Contact: 7th ICG
Tel: 33/0 1 45 18 55 98
Fax: 33/0 1 45 18 56 55
E-mail: ips-conseil@wanadoo.fr
<http://www.7icg-nice2002.com>

First International Conference on Scour of Foundations, ICSF-1 College Station, Texas, USA 17-20 November 2002
Contact: Professor Jean-Louis Briand
Tel: 1/979 845 3795
Fax: 1/979 845 6554
E-mail: briand@tamu.edu
<http://tti.tamu.edu/conferences/scour>

12th Annual International TANDEC Nonwovens Conference Knoxville, Tennessee, USA 19-21 November 2002
Contact: Dr. Dong Zhang, Chair
Tel: 1/865 974 6298
Fax: 1/865 974 3580
E-mail: tancon@utk.edu
<http://web.utk.edu/~tancon>

Geosynthetics 2002 - China Shanghai, China 20-22 November 2002
Contact:
Tel: 86/21 64646585; 86/21 64641527

Fax: 86/21 64812993
E-mail: info@cnta.org

16th Annual Conference on Geosynthetics Philadelphia, Pennsylvania, USA 16-17 December 2002
Contact: Ms. Marilyn Ashley
Tel: 1/610 522 8440
Fax: 1/610 522 8441
E-mail: marilyn.ashley@coe.drexel.edu
<http://www.geosynthetic-institute.org>

Indian Geotechnical Conference 2002 Allahabad, India 20-22 December 2002
Contact: Dr. R.P. Tiwari, Secretary
Tel: 0532/445103/04/05/06, Ext: 1118
Fax: 0532/642693/417500/646285
E-mail: igc_02@yahoo.co.in
<http://www.geocities.com/igc2002allahabad>

Geosynthetics 2003 - Educating for Engineering Solutions Atlanta, Georgia, USA 11-14 February 2003
Contact: Danette Fettig, Secretary
E-mail: drfettig@ifai.com
Tel: 1/651 225 6942
<http://www.ifai.com>

Grouting and Ground Treatment 2003 New Orleans, Louisiana, USA 23-28 February 2003
Contact: Michael Byle
E-mail: mbyle@gfnet.com

Fast Slope Movements - Prediction and Prevention for Risk Mitigation (IC-FSM2003) - Conference
Sorrento, Italy 11-13 May 2003
Contact: Dr. Giuseppe Sorbino, Secretary
Tel: 39/089 964329
Fax: 39/089 964045
E-mail: fsm2003@unisa.it
<http://www.unina2.it/fsm2003>

Occurrence and Mechanisms of Flows in Natural Slopes and Earthfills (IW-Flows2003) - Workshop
Sorrento, Italy 14-16 May 2003
Contact: Dr. Lucio Olivares, Secretary
Tel: 39/081 5010214
Fax: 39/081 5037370
E-mail: lucio.olivares@unina2.it
<http://www.unina2.it/flows2003>

3rd. Canadian Conference on Geotechnique and Natural Hazards Edmonton, Alberta, Canada 8-10 June 2003
Contact: Corey Froese
Tel: 1/780 436 2152
Fax: 1/780 435 8425

E-mail: corey.froese@amec.com
<http://www.geohazards2003.eba.ca>

12th Panamerican Conference on Soil Mechanics and Geotechnical Engineering Cambridge, Massachusetts, USA 22-26 June 2003
Contact: Professor Herbert Einstein
Tel: 1/617 253 3598
Fax: 1/617 253 6044
E-mail: einstein@mit.edu
<http://soilrock.mit.edu>

12th Asian Regional Conference on Soil Mechanics & Geotechnical Engineering Singapore 4-8 August 2003
Contact: Dr. C.F. Leung
Tel: 65/8742281
Fax: 65/7791635
E-mail: 12ARC@nus.edu.sg
<http://www.eng.nus.edu.sg/civil/conf/12ARC>

13th European Conference on Soil Mechanics & Geotechnical Eng. Prague, The Czech Republic 25-28 August 2003
Contact: Prof. Ivan Vanicek
Tel: 42/2 24354540
Fax: 42/2 3114206
E-mail: vaniceki@fsv.cvut.cz
<http://www.ecsmge2003.cz>

56th Conference of the Canadian Geotechnical Society Winnipeg, Manitoba, Canada 28 September-1 October 2003
Contact: Kent Bannister
E-mail: KBannister@kgsgr.com
<http://home.cc.umanitoba.ca/~cgsman/cgs2003/>

Sardinia 2003 S. Margherita di Pula, Cagliari, Italy 6-10 October 2003
Contact: Eurowaste srl
via Beato Pellegrino, 23
I-35135 Padova, Italy
Tel: 39/049 8726986
Fax: 39/049 8726987
E-mail: eurowaste@tin.it
<http://www.sardiniasymposium.it>

XIII African Regional Conference Marrakech, Morocco 8-11 December 2003
Contact: Professor R. Khalid
Tel: 1/212 2 248 87 50
Fax: 1/212 2 223 41 88
E-mail: diremi@emi.ac.ma

Note: Items in bold print are organised under the auspices of the IGS or with the support of the IGS.

Corporate Members of the IGS

- ABG Limited** *UK (2002)*
Agru Kunststofftechnik GmbH
Austria (1996)
Alpe Adria Textil *Italy (2002)*
Amoco Fabrics and Fibers Co.
USA (1987)
Araigumi Co., Ltd. *Japan (1999)*
Asahi Kasei Corporation
Japan (1984)
Association of RRR Construction System, The *Japan (1998)*
Atarfil, S.L. *Spain (1999)*
Belton Industries Inc. *USA (1989)*
Bettor MBT, S.A. *Spain (2000)*
Bidim Geosynthetics S.A.
France (1984)
Bidim Inde E Com Ltd. BBA Nonwovens *Brazil (1994)*
Bonar Technical Fabrics N.V.
Belgium (1985)
Cetco *USA (1992)*
Colas Group, The *France (1996)*
Colbond Geosynthetics
The Netherlands (1986)
Confelt Co., Ltd *Thailand (2002)*
Creative Polymer Industries Pte Ltd. *Singapore (1997)*
Dae Han Industrial Material Co., Ltd. *Korea (1994)*
Du Pont De Nemours Int. (Luxembourg) S.A.
Luxembourg (1984)
E & S Engineering Co., Ltd.
Korea (1997)
Earthshine Enterprise Co., Ltd.
Taiwan, R.O.C. (2000)
Edilfloor SpA *Italy (2002)*
Emas Kiara Sdn Bhd
Malaysia (1999)
Engepol Ltda *Brazil (2001)*
Engtex AB *Sweden (1995)*
Fibertex A/S *Denmark (1984)*
Field Lining Services
Panama (1998)
Fiti Testing and Research Institute *Korea (1997)*
Fritz Landolt Ag
Switzerland (1985)
Geofabrics Ltd. *UK (1995)*
Geofelt GmbH *Austria (1996)*
Geosistemas Pavco S.A.
Colombia (1991)
Geosynthetic Materials Association *USA (1985)*
Geosystem Co., Ltd. *Japan (2000)*
Geotechnics Holland B.V.
The Netherlands (1991)
GSE Lining Technology, Inc.
USA (1988)
Hojun Yoko Co., Ltd. *Japan (2000)*
Honeywell Performance Fibers
USA (2001)
Hong Leong Plastics Pte Ltd.
Singapore (1994)
Huesker Synthetic GmbH & Co.
Germany (1987)
Hui Kwang Chemical Co., Ltd.
Taiwan, R.O.C. (2000)
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)*
Kuraray Co., Ltd. *Japan (1989)*
Laviosa Chimica Mineraria
Italy (2002)
Lys Fabrics S.A. *Belgium (1998)*
Maccaferri do Brasil Ltda.
Brazil (1998)
Maeda Corporation *Japan (1988)*
Maeda Kosen Co., Ltd.
Japan (1992)
Mecaroute S.A. *France (1996)*
Menard-Terre Armeé
France (2002)
Mitsubishi Chemical Functional Products, Inc. *Japan (1992)*
Mitsui Chemicals Industrial
Japan (1992)
Naue Fasertechnik GmbH & Co. KG *Germany (1987)*
Nittoc Construction Co., Ltd.
Japan (1994)
Obayashi Corporation
Japan (1988)
Officine Maccaferri S.P.A.
Italy (1997)
Okasan Livic Co., Ltd.
Japan (1984)
Polyfelt Ges.m.b.H *Austria (1984)*
Poly-Flex, Inc. *USA (1996)*
Presto Products Company - Geosystems Division *USA (1996)*
Punzonados Sabadell, S.A.
Spain (2000)
Reinforced Earth Co., The
USA (1989)
Reliance Industries, Ltd.
India (1998)
Serrot International, Inc.
USA (1992)
Sewon Geosyntech Co., Ltd.
Korea (1997)
Shimizu Corporation *Japan (1990)*
SI Corporation *USA (1991)*
Solmax International, Inc.
Canada (1997)
Steel Dragon Enterprise Co., Ltd.
Taiwan, R.O.C. (1996)
SVG (Swiss Association of Geotextile Professionals)
Switzerland (1984)
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 S.p.A. *Italy (1991)*
Ten Cate Nicolon B.V.
The Netherlands (1984)
Tenox Corporation *Japan (1998)*
Tensor Corporation, The
USA (1989)
Tensor International *UK (1989)*
Terram Ltd. *UK (1988)*
Terratest Tecnicas Especiales, S.A. *Spain (2000)*
Thai Nam Plastic Public Co., Ltd.
Thailand (1994)
Tokyu Construction Co., Ltd.
Japan (1984)
Werkos *Croatia (1999)*
Xtex, Inc. *USA (2002)*
Zeon Environmental Materials Co., Ltd. *Japan (1992)*

Note: date is earliest year of continuous membership

IGS Council

Elected in 1998

S.P. Corbet (United Kingdom)
J. Collin (USA)
J.-P. Gourc (France)
Ph. Delmas (France)
G. Heerten (Germany)
P. Rimoldi (Italy)
F. Tatsuoka (Japan)
P.E. Stevenson (USA)

Elected in 2000

J.W. Cowland (Hong Kong)
D.R. Fettig (USA)
M. Kamon (Japan)
J. Lafleur (Canada)
E.-S. Lee (Korea)
M.-L. da Costa Lopes (Portugal)
B. Myles (United Kingdom)
J. Paul (United Kingdom)

Co-opted in 1998

W. Voskamp (The Netherlands)
E. Palmeira (Brazil)

Co-opted in 2000

V. Feodorov (Romania)
M. Sadlier (Australia)

Co-opted in 2001

S.P. Kaushish (India)

The IGS Council includes five IGS Officers serving for the period 1998 to 2002.

IGS Officers

President

Prof. Richard J. Bathurst
Department of Civil Engineering
Royal Military College of Canada
P.O. Box 17000, STN Forces
Kingston, Ontario K7K 7B4
CANADA
Tel: 1/613 541 6000, Ext. 6479
Fax: 1/613 541 6218
E-mail: bathurst-r@rmc.ca

Vice-President

Ing. Daniele A. Cazzuffi
ENEL.Hydro
Via G. Pozzobonelli, 6
20162 Milano
ITALY
Tel: 39/02 7224 3545
Fax: 39/02 7224 3640
E-mail: cazzuffi.daniele@enel.it

Immediate Past-President

Prof. Colin J.F.P. Jones
Department of Civil Engineering
The University of Newcastle
Newcastle upon Tyne, NE1 7RU
UNITED KINGDOM
Tel: 44/191 222 7117
Fax: 44/191 222 6613
E-mail: c.j.f.p.jones@newcastle.ac.uk

Treasurer

Mr. Wim Voskamp
Maasoord 27
3448 BM Woerden
The Netherlands
Fax: 31/348 430961
E-mail: voskamp@wxs.nl

Secretary

Mr. Peter E. Stevenson
226 Sitton Rd.
Easley, SC 29642-8393 USA
Tel: 1/864 855 0504
Fax: 1/864 859 1698
E-mail: igspete@aol.com

IGS News Editors

Ms. Karina Labinaz

Editor

IGS News
Department of Civil Engineering
Royal Military College of Canada
P.O. Box 17000 STN Forces
Kingston, Ontario K7K 7B4 CANADA
Tel: 1/613 541 6000, Ext. 6347
Fax: 1/613 541 6218
E-mail: labinaz-k@rmc.ca

Dr. J.-P. Gourc

Associate Editor (Europe)

IGS News
Grenoble University
IRIGM-Lgm
B.P. 538041 Grenoble Cedex 9
FRANCE
Tel: 33/76 51 49 46
Fax: 33/76 51 49 00
E-mail: gourc@ujf-grenoble.fr

IGS News Chapter Correspondents

Mr. Fred Foubert, Belgium, fred.foubert@centexbel.be
Mr. Gerhard Braeu, Germany, g.braeu@bv.tum.de
Dr. G.V. Rao, India, gvrao@civil.iitd.ernet.in
Dr. Giovanni Bosco, Italy, giovanni.bosco@ing.unitn.it

Prof. Katsuhiko Makiuchi, Japan, makiuchi@trpt.cst.nihon-u.ac.jp
Ms. Loretta Batali, Romania, loretta@hidro.utcb.ro
Mr. Peter Davies, South Africa, ktechpld@kaymac.co.za
Prof. San-Shyan Lin, Taiwan, sslin@ntou66.ntou.edu.tw

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

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 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.

IGS MEMBERSHIP APPLICATION

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.

Write your address below as you wish it to appear in the next *IGS Directory*

Title (circle one): Mr. Ms. Dr. Prof. Other Position

First name:

Last name:

Company name:

Address:

City: Province/State:

Postal code: Country:

Telephone:

Fax:

E-mail:

Membership fee schedule: Individual US\$45.00 Corporate US\$1,000.00 Benefactor's contribution (at least US\$200.00)

Send this completed form to:

IGS Secretariat

P.O. Box 347

Easley, SC 29641-0347

USA

Telephone: 1/864 855 0504

Fax: 1/864 859 1698

E-mail: igssec@aol.com

Eligibility (i.e., your connection to geotextiles, geomembranes, related products, and associated technologies):

Mode of payment:

Check enclosed drawn on a US bank

Draft sent to: Bank of America
Easley, South Carolina USA
ABA Routing No. 053904483
Account No. 733005326

Signature:

Date:

Credit card (circle one): Mastercard Visa American Express

Account number:

Expiration date:

Name on card:

Authorized signature:

IGS News is published by the International Geosynthetics Society

For editorial enquiries contact: Ms. Karina Labinaz

Department of Civil Engineering, Royal Military College of Canada

P.O. Box 17000, STN Forces, Kingston, Ontario, CANADA K7K 5L0

Tel: 1/613 541 6000, Ext. 6347 or 1/613 533 3108, Fax: 1/613 541 6218, E-mail: labinaz-k@rmc.ca