



Introducing the New GSI Logo

As you'll see at the top of this newsletter, GSI has developed a new logo that reflects both the historical representation of the Institute and GSI's affiliation with Georgia Tech. The new logo was developed by David Frost with the help of the Georgia Tech Institute Communications team and with input from the Koerner family.

Activities within GCI (Certification)

Program #4 – Laboratory Technician Certification
GSI is pleased to announce a new certification program for Laboratory Technicians testing Geosynthetics materials for quality control/assurance and research around the globe. With the Accreditation of Geosynthetic Laboratories, we can now close the loop by offering this certification to its technicians. The laboratory technician is at the heart and beginning of verification for the quality of geosynthetic materials. It is our goal to provide credibility to those laboratory technicians and to laboratories employing laboratory technicians that have been properly trained and experienced to perform the respective tests. It is our goal to expand and improve the overall quality surrounding geosynthetics that are widely used in civil and environmental applications. The certification will raise the bar in the geosynthetics industry by having trained laboratory technicians. As an

The GSI Newsletter/Report

Geosynthetic Institute

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This quarterly newsletter, now in its 40th year, presents the activities of GSI and its related institutes to all who are interested. It is available on the institute's home page at www.geosynthetic-institute.org. It also serves as a quarterly report to its member organizations. Details are available by contacting Jenny Freeman by phone (404) 385-8132; or e-mail at jenny.freeman@ce.gatech.edu

ancillary procedure it will encourage laboratories (commercial, academic, and manufacturing) to ensure their technicians are properly trained, following strict testing procedures, and reporting meaningful data, thus reducing errors and inaccuracies in testing. We would encourage labs and interested parties to submit questions/answers for laboratory tests to keep a good rotation and randomness of questions to enhance the certification process.

GAI-LAP Semi Annual Meeting Dallas, TX

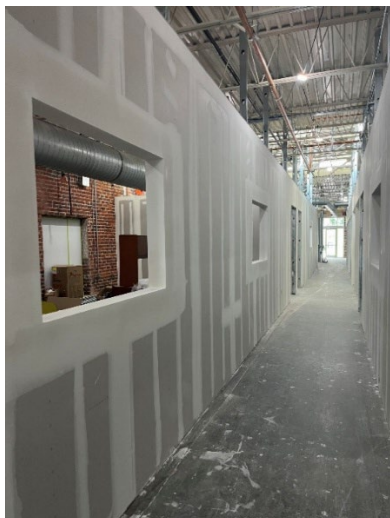


The Semi-Annual Meeting with ASTM D35 was held on June 4th, 2026, in Dallas, Texas USA at the Hyatt Regency. We had over 22 in attendance (see picture below) and we went over eight conflict resolutions. We also discussed the proficiency testing and the substantial number and types of outliers being addressed. Thanks to ASTM for allowing us to hold GSI's semiannual GAI-LAP meeting at ASTM D35 committee week. This was our 64th consecutive GAI-LAP semiannual meeting

and as usual the meeting was a remarkable success.

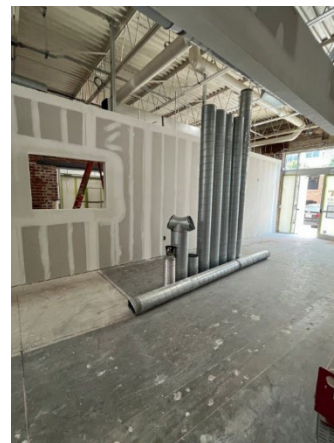
Construction Update of the New Laboratory at Georgia Tech

The construction of the new laboratory at Ga. Tech for GSI is well underway and should be moving in around August 1st. There will be three laboratories within the confines, each dedicated to multiple areas of concentration such as Physical Testing Laboratory, Performance Testing Laboratory, and the Endurance Testing Laboratory. We will also have a Sample preparation and Warehouse room. Each of these areas will have windows to view any testing/preparation without disturbing the tests and technicians/students and/or due to safety concerns. We will have a genuinely nice conference room to double as a testing, training, and teaching facility. We will have a nice lobby with audiovisual display to welcome our guests and members along with several offices.



GAI LAP Proficiency Testing at Tech

The proficiency testing is wrapping up for 2026. The testing included 22 distinct types of materials/samples that were distributed to 110 labs around the globe (65% outside the U.S.). There were over 1,900 tests with over 5,400 data points and 250 outliers (from 61 labs). Some labs did lose accreditation for certain tests while others gained additional tests during the process. We are now beginning to search for manufacturing volunteers for materials to be used for the 2027 proficiency testing.



The Non-Geosynthetic Side of Your Fellow Members

Beginning with this issue, we will profile three of your fellow member company contacts in each newsletter. While many of you know them from a geosynthetic perspective, we thought we'd also let you know what occupies/motivates/challenges them when they are not thinking polymeric materials. We begin this issue with several of our Board of Advisor members (you elected them) and then work our way through what we hope will be an expanding list of members and contacts. The three BOA members who are in the last year of their elected position (unless they decide to run again and you decide to elect them) are: Jeff Blum of Weaver Consultants representing the Consultant group; Anthony Johnson (AJ) of Agru America Inc. representing the Barrier group; and Jacek Kawalec of

Tensar representing the International Group. Read on and get to know them a little better.

Jeff Blum is completing the 3-year term that was previously occupied by Henry Mock who, as you know, joined GSI and Georgia Tech as Vice President and



Professor of the Practice 8 months ago and therefore could not be both an advisor and advisee. Jeff is a Project Manager at Weaver Consultants in Allendale, Michigan. He has an extensive background in reducing leakage by assuring better CQA services in waste

containment systems. He has been instrumental in improving the CQA state-of-the-practice by championing the certification of field technicians (GCI-ICP). Interestingly, the non-geosynthetic side of Jeff's life also has a strong connection to reducing, if not avoiding leakage altogether. Jeff is an avid sailor and not just one who is lounging around on a boat but one involved in competitive sailboat racing. This undoubtedly justifies the smile on his face and the water in the background of his picture. For the record, this past week, he competed in the 102nd Port Huron to Mackinac Island race, which begins on Lake Huron just beyond the Blue Water Bridge to Canada and has two routes: The Shore Course is 204 nautical miles (235 statute miles) and the Cove Island Course is 259 nautical miles (298 statute miles). The record fastest time for the race is 21 hours, 45 minutes, and 12 seconds – set in 2017 but depending on the wind, it could take upwards of 50 hours – this is serious sailboat racing! *(Late breaking news update shows that the boat that Jeff was crew on finished in 5th place in their class with an elapsed time of 46 hours and 24 minutes. Well done.)*

Anthony Johnson (AJ) is the Vice President of Technical Services at AGRU America, Inc., a premier manufacturer of engineering plastics solutions like geosynthetics, liners, and high-density polyethylene (HDPE) pipes. Based out of Georgetown, South Carolina, AJ has built a decade-long tenure with the company. He leads the technical product support group and champions sustainability within industrial engineering infrastructure. AJ's first thought when asked what he thinks about in addition to



geosynthetics was plastic pipe – having visited with him in Georgetown, that wasn't a complete surprise where I got the full tour. More importantly, his non-work enjoyment now comes from being a new father, where he absolutely loves spending time with his son, August, wife, Ksenia, and their various critters. The simple, quiet times with family are most profoundly beautiful and fulfilling to AJ, and there's nothing he looks forward to more than coming home from the plant or business trips to a house full of love. In addition, he is an avid reader of everything from the latest popular fantasy series to South American literary fiction (big fan of Gabriel Garcia Marquez, Mario Vargas Llosa, Roberto Bolano) and history. Who would have guessed that someone who spends their day thinking about new product innovation would balance that in the evenings with fiction and history!

Jacek Kawalec is Director of Technology for the Eastern Hemisphere for Tensar International, a role that allows him to fully utilize his research experiences in practice. Jacek is the author or co-author of over 100 papers on geotechnics and geosynthetics in published journals or presented at conferences, as serves as a member of Scientific Committees for many conferences.



Prior to joining Tensar, Jacek was a faculty member in the Geotechnical Department of Silesian University of Technology in Poland. He bridges the gap between commercial engineering and academia in Poland, focusing heavily on soil stabilization, geogrids, and infrastructure projects. To offset his technical work, Jacek can be found bridging the gap between hunger and food in front of his grill where he is a master of steak preparation and other foods on grill. My understanding is that one can make a "Polish-style" steak by marinating beef in a robust blend of sweet paprika, caraway, onion, and coarse brown mustard although no doubt, Jacek has his own "secret" recipe. The meat is best served alongside a tangy sauerkraut with hearty rye bread. For the record, Jacek has promised me that when I visit him at home I will be served with the best steak I've ever had – definitely looking forward to that experience.

GAI LAP Audit Progress Continues

George has had another busy quarter visiting labs around the world and performing GAI LAP audits. In May, David also joined George in Brazil to observe audits that took place there. GSI audited Instituto Mauá de Tecnologia in Brazil which operates a specialized geosynthetic laboratory that is GAI-LAP accredited. Maua ensures high standards in geosynthetic testing. Activities include research and development on the behavior of all geosynthetics. The GAI-LAP audit that took place at on April 29th and 30th at Instituto Mauá de Tecnologia geosynthetic laboratory located in São Caetano do Sul, São Paulo, Brazil. They had a large energetic staff which was refreshing to work with during the two-day audit.



Photo outside Maua's Lab



Photo of Maua lab staff and management

Lonax Geo (Lonax) was also audited during the trip to Brazil. Lonax is a company specializing in the production and supply of geosynthetic materials, including geomembranes, primarily serving the Brazilian market. These products are used in various civil engineering and environmental containment applications to prevent leakage of

liquids or gases. The GAI-LAP audit that took place at on May 4th, 2026 at Lonax Indústria Brasileira de Lonas geosynthetic laboratory located in Sarzedo, Brazil. Lonax's quality system is in very good shape and it was a pleasure to work with their laboratory staff again.



Photo outside of Lonax's plant



Photo of Lonax lab staff and management

Azul Pack Techground in Brazil received an audit as well. Azul Pack TechGround is a specialized brand of the Brazilian company Azul Pack, focusing on high-performance geomembranes for infrastructure, mining, sanitation, and environmental protection projects. Based in Brazil with over 46 years of experience, they provide advanced, sustainable geosynthetic solutions, including polyethylene geomembrane. The GAI-LAP audit that took place at on May 6th, 2026 at Azul Pack Filmes e Embalagens Ltda. (Azul-Tech Ground) geosynthetic laboratory located in Sapucaí, Jacutinga, Brazil.



Photo outside of Azul Pack's plant



Photo outside GTX's Lab



Photo of Azul Pack lab staff and management

In May George visited GeoTesting Express (GTX), which is located in the woods of Acton, Massachusetts in the USA. (GTX) provides state-of-the-art testing facilities to measure the mechanical and physical properties of soil, rock, geosynthetics, aggregate, concrete, and other geomaterials. They utilize best practices and advanced testing equipment to provide fast, accurate results. Their repertoire of GAI-LAP includes sixty-three ASTM methods. This is their thirtieth year participating in the GAI-LAP.



GTX staff and management

George was also on site at TÜV SÜD in Singapore this quarter. TÜV SÜD is a trusted partner for safety, security and sustainability solutions. Originating in Germany 150 years ago, they have added tangible value to their clients worldwide. SÜD PSB previously known as PSB Corporation is a wholly owned subsidiary of TÜV SÜD AG. With a sterling record of over 50 years, 500 employees in Singapore. In 2022 they moved to a new facility at 15 International Business Park TUV SUD@IBP Singapore, 609937. Geosynthetic is a small but growing part of their laboratory business. It was a pleasure to work with them again in their new and very impressive accommodations. They sought GAI-LAP accreditation for seventeen different test methods and are designated as GAI-LAP #97.



Photo outside TÜV SÜD Lab



Photo outside ALROWAD's Lab



Photo of TÜV SÜD lab Staff and Management



George with Alrowad Staff and Management

In June George traveled to Qatar to perform an audit for new GAI-LAP member Alrowad International Laboratories, located at Zone 81 Street #4 Building 221 in Doha. ALROWAD International Laboratories delivers world-class laboratory services, utilizing the latest technologies and methodologies to ensure the most accurate and reliable results in the middle east. ALROWAD International Laboratories, commitment to excellence is demonstrated through its accreditation of tests to ISO/IEC 17025 (Testing and Calibration Laboratories). With proven expertise in meeting international and local regulations across diverse industries, they are a trusted partner for compliance in the areas of mechanical, hydraulic, chemical and endurance testing. George enjoyed working with such and energetic group. Their GAI-LAP repertoire includes eleven different geotextile related test methods, and they are designated as GAI-LAP lab #150.

While in Qatar, George also visited Doha Waterproof Factory for an audit. Doha Waterproof Factory (DWF) is established in Qatar 2014 as the first and the leading manufacturer and supply of high-quality plastic lining system in Qatar. They concentrate on containment of water, sewage, waste, and mining management. Doha Waterproof Factory (DWF) specializes in the production of HDPE geomembranes, including textured and smooth variants, welding rod, as well as T-Lock Geomembrane panels. Mr. Ahmed Al-Masre is the plant manager and has served on the GSI Ad-Hoc transition committee. Doha Waterproof Factory (DWF) is located at PO Box 50311\ Mesaieed in Doha. They are designation as GAI-LAP lab #97 and accredited for twenty-five different ASTM And ISO geosynthetic tests.



Photo outside of DWF's lab



George with DWF Staff and Management

Outreach Activities by GSI President David Frost

Meeting with current and prospective GSI members and GAI-LAP laboratories and giving presentations at various professional meetings and events is an important outreach activity for GSI in this transition period. Apart from trips to Maua in Sao Paulo, Brazil and Maccaferri in Fort Lawn, as noted elsewhere in this newsletter, GSI President Frost



has been on the road and meeting with key members of the GSI family. In late March, he added a number of GSI related visits to his itinerary when he took his "International Disaster Reconnaissance"



class to Japan and S. Korea where he was accompanied by GSI BOD member Bill Higginbotham. Apart from exciting stops like visiting the Fukushima-Daiichi nuclear power plant disaster site (see photo taken in front of reactor unit #1), Frost gave a keynote lecture at Korean Geotechnical Society Annual meeting on "Foundation Based Architecture: Building from the Ground Up to Work With Nature" and lectures at the Korean Advanced Institute of Science and Technology (KAIST) and Seoul National University on "Transitioning Bio-Geo Ideas from Research to Practice" where he discussed research into new designs for geogrids and the use of structural optimization as part of the design process. While in Seoul, Frost also visited with Emeritus Professor H.Y Jeon, from Inha University and H.K Hogan Kim (formerly of FITI Testing and Research



Institute) to discuss future plans for GSI international partners. Frost was accompanied on this visit by Dr. Boyeong Yoon, a Research Professor at Korea University and a former Post-Doctoral Researcher at Georgia Tech.

As noted elsewhere in this newsletter, David joined George for part of the GAI-LAP activities in Brazil. In addition, David visited with Professor Fernando Henrique Martins Portelinha and Professor Natalia



de Souza Correia at the Universidade Federal San Carlos to discuss future plans for GSI international partners and to give a lecture at the university. While they, he visited the impressive labs they have established as

well as gave a lecture to the research group there titled "The Role of (In)Compatibility in Geosynthetic Interface Behavior". David gave a similar titled lecture at TRI Environmental in Austin on April 24 when he visited there with BOA Co-Chair Sam Allen and his team for a tour of their extensive labs. A delegation from National Chung Hsing University, College of Engineering in Taiwan visited Georgia Tech on May 8 to discuss future collaborations between NCHU and GT. During the visit, Frost gave an overview of GSI and initiated discussions about future potential collaborations in geosynthetic and pavement research to the delegation led by Dean Ming-Der Yang.



The 28th Annual George F. Sowers Symposium was held at the Academy of Medicine at Georgia Tech on May 14 with almost 200 attendees. Apart from sponsor exhibits, the event included a State of the Art Lecture by Dr. Erol Tutumluer from the

University of Illinois Urbana-Champaign on "Geosynthetic Stabilization of Road Pavements, Railways and Airfields", a State of the Practice Lecture by Mr. Tim Siegel, CEO and Senior Principal Engineer with Dan Brown and Associates titled "Foundation Strategy in Devil's Rock" and the Sowers Lecture by Dr. Shobha Bhatia from Syracuse University on "Why Slurries Flow: Rethinking Yield Stress, Chemistry, and Risk in Ash and Tailings Impoundments". Dr. Bhatia also gave a reprise of her 2025 GMA Koerner Lecture titled "Building on the Foundations of Giroud, Lafleur, and Koerner: Advances in Geotextile Filter Design" to students at Georgia Tech on May 13. In June, Frost attended the 21st International Conference on Soil Mechanics and Geotechnical Engineering (ICSMGE) in Vienna, Austria and met with numerous geosynthetic and geotechnical colleagues at the event. In addition, Frost was formally introduced as the VP for North America of ISSMGE and will serve a four year term through the next ICSMGE which will be held in Shanghai, China. Following the conference, Frost met in Munich with Dr. Jan Retzlaff, Managing Partner at GEOscope GmbH to discuss future plans for GSI and the importance of international partners.

After Austria and Germany, Frost flew onto to India and in addition to attending the International Conference on Climate and Disaster Resilience 2026 at IIT Mandi in Himachal Pradesh where he delivered the Valedictory Lecture on "Natural and Man-made Disasters and their Impacts on Infrastructure at Multiple Scales - Alternative



Solutions for Dealing with Disasters" in which he highlighted making natural geomaterials in infrastructure systems more resilient through the inclusion of geosynthetics. Following the lecture, he served as lead host during the formal conference closing and awards ceremony.

Frost also visited a number of current and prospective GSI members and GAI-LAP laboratories in Mumbai and Delhi including Bombay Textile Research Association (BTRA), IIT Bombay, TechFab, Strata Global and Maruti Rubber to provide updates on GSI activities and plans. He also delivered lectures at both BTRA and IIT Bombay on "The Role of (In)Compatibility on Geosynthetic Interface Behavior".

Philadelphia Based Staff Road Trip to Atlanta

As part of our geographic and operational transition activities, the Philadelphia based GSI staff periodically travel to Atlanta. A visit by Jamie and George from May 18 to 21 was highly productive and apart from facilitating the transfer of GSI



computers and other sensitive materials to Atlanta, allowed for an in-person all-staff series of meetings to facilitate: (i) the transfer of key knowledge from Jamie to Jenny and others with Jamie's retirement effective May 31; and (ii) technical discussions related to ongoing research activities and future plans. In addition, George aided by Shaivan were busy recovering samples from both rooftop and lab UV testing environments and performing tensile testing. These field and accelerated lab test programs have been ongoing for multiple years and were successfully transitioned from Philadelphia to Atlanta with only 24 hours of down-time.



In addition to the work aspects of the trip, the GSI staff (and a couple of spouses) enjoyed a retirement dinner held in Jamie's honor at a tapas restaurant bar near Georgia Tech that is inspired by the culture of Spain. The menu is focused on specialties from Spain and the Mediterranean created by Executive Chef Emilio Garcia.



In addition to enjoying food, beverages and conversation, the GSI team presented Jamie with a custom plaque that incorporated a piece of geogrid so she remembers the fun times at GSI.



GeoForum at UNC Charlotte, U.S.A.

GSI participated in HUESKER's GeoForum held in Charlotte NC USA on April 16th, 2026. This was a highly technical geosynthetic conference highlighting, case studies, innovative applications for geosynthetics and cutting-edge research. The first day of the conference provided an invaluable opportunity to engage with leading experts in geosynthetics and civil engineering as they dove into specialized technical topics. The agenda for the conference was as follows;

- Opening Remarks: Dr. John Daniels, & Flavio Montez:
- Five Decades of Advancements in Geotechnical Practice Across the U.S.: Jerry DiMaggio, PE, ASCE, GE:
- Ingenuity in Civil Engineering using Geosynthetics: Dr. Jorge Zornberg

- Basal Reinforcement of Embankments on Soft Soils Using High-Modulus Geosynthetics: Dr. Oliver Detert
- Geotextile Encased Columns: A Versatile Solution for Soft Soil Embankments: Dr. Erol Guler
- Project Spotlight Chesapeake Parallel Thimble Shoal Tunnel: Juliana Beauchamp, PE
- Project Spotlight: Load Transfer Platforms (LTP) over Cemented Columns: John Myers, P.E., BC.GE
- Project Spotlight: Asphalt Reinforced Pavements in Texas: Dr. Vinay Kumar
- Carolina Contaminants: Ash, PFAS, & Beyond: Vincent (Tobi) Ogunro, Ph.D. & Carlos Rodriguez, Doctoral Researcher
- Engineering for Longevity: Sustainability and Resilience through Geosynthetics: Dr. George Koerner



GeoForum Attendees

Attendance on the second day included a visit to the HUESKER manufacturing plant in Shelby NC, where the strongest geotextile made in America is produced. Huesker North America proudly celebrated its 35 years of serving the North American geosynthetics and civil engineering community. Since 1991, Huesker's mission has been to combine innovation, partnership, and expertise to help build safer, smarter, and more sustainable infrastructure and solve geotechnical challenges through geosynthetics engineering.

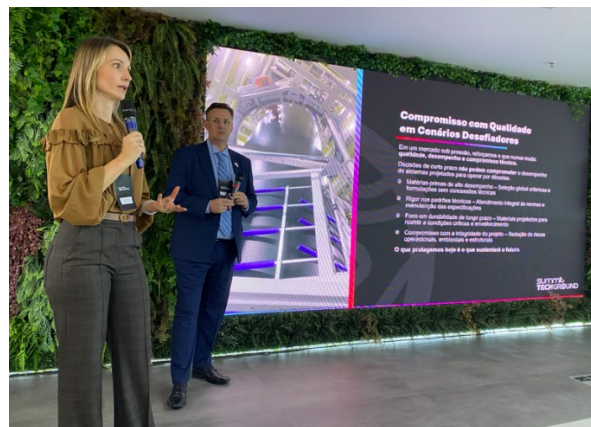
GSI Participates in Azul Pack's Techground Summit in Sao Paulo

GSI participated in Azulpack's TechGround Summit held in Sao Paulo Brazil on May 7th, 2026. Azulpack TechGround is a Brazilian company specialized in engineering, environmental, mining and agribusiness solutions, with a focus on geomembranes. The brand stands out by

combining advanced technology, technical reliability, and a strong commitment to sustainability, delivering solutions that ensure durability in large-scale projects. They put together a fantastic one-day event TECHGROUND Summit 2026. It was entirely focused on the development of the geomembrane market and its solutions for mining and critical environmental containment projects. The event brought together one hundred experts from across the civil/environment sector. The agenda for the seminar was as follows;

- Aline Hurtado – Azulpack Techground CEO: Opening remarks and welcome
- Leandro Kaue – Azulpack Techground's Technical director: Agenda and seminar objectives
- George Koerner – VP GSI at Georgia Tech: Genesis of Geomembranes for Waste Containment
- Carlos Rossin – President of Instituto Valoriza Resíduos: Waste Containment Innovations
- João Gargalaka – Associate TS&D Director for Flexible Films & Sustainability for Latin America: HDPE Geomembrane formulations
- Carlos Dainese – Bandeira: Blown film geomembrane manufacturing
- Diógenes Del Bel – Consultant for Instituto Valoriza Resíduos: Repporteur of the technical committee responsible for the revision of landfill standards in Brazil
- Ricardo Cortez – Former National Technical Superintendent at Estre Ambiental and consultant: Environmental infrastructure and waste disposal systems

This technical initiative brought together top professional in the field of environmental containment. There were a multitude of questions from the audience. A great time was had by all.





Photos from the Techground Summit

GSI Attends Maccaferri Plant Ribbon Cutting



On June 5, Maccaferri officially cut the ribbon and inaugurated their new, state-of-the-art production facility for Synteen Technical Fabrics (a Maccaferri Company) at 2251 Catawba River Road, Unit B in Fort Lawn, South Carolina. This facility brings together the local roots and manufacturing strength of Synteen with Maccaferri's global engineering expertise. David Frost and Shaivan Shivaprakash

attended the event and met with Robert Lozano, John Lostumbo, and Sachin Mandavkar, amongst others. The event was attended by State, County and Local officials as well as Maccaferri leadership from Italy.



David and Shaivan at the Maccaferri Ribbon Cutting

Members Only Section on Website

Accessible with a members-only password. Your contact person/persons (names listed beneath member company) must obtain a password from Jamie Koerner to access the members-only section of the Geosynthetic Institute website. Jamie can be reached by e-mail at Jamie@geosynthetic-institute.org. When you get into this members-only section, the following information is then available.

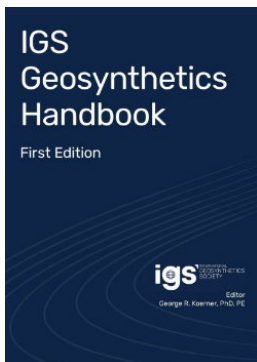
- **GRI Test Methods (all)**
- **GRI Reports**
- **GRI Technical Papers (419 Citations)**
- **Notes of GSI Meetings**
- **Links to the GSs World**
- **Keyword Search for Generic Papers**
- **Example Problems**
- **Frequently Asked Questions (FAQs)**

GRI Reports

To date, we have 48 GRI Reports available to members and associate members. Access to these reports are in the password protected section of the GSI website at www.geosynthetic-institute.org/member/reports.html. Non-members can purchase the reports from the online GSI bookstore. There are 45 Whitepapers which are free to everyone.

As you can see by the listing below, we are still disseminating a lot of new information at the institute in the following ways:

- GRI Methods, Specifications, Guides & Practices
- Quarterly Newsletters
- White papers
- GSI Website
- Conference Papers
- GRI Reports



The IGS Geosynthetic Handbook is now available through the International Geosynthetic Society or at Barnes and Noble Bookstores for \$200.00. IGS members can receive a \$50 discount when ordering at: <https://www.geosyntheticssociety.org/membership-account/shop-igs-geosynthetic-handbook/>

The IGS Geosynthetic Handbook, First Edition provides an overview of geosynthetic materials and their related design uses, quality, and installation considerations in major applications in infrastructure. The handbook has been developed for educational and referential purposes for the general civil engineering community, including professionals of all experience levels, engineering educators, and students. Expert lead authors and peer review have been utilized. The handbook is published by the not-for-profit International Geosynthetic Society (IGS), with the support of the IGS Education Committee and the IGS Foundation. **The book is not intended to be read cover to cover. Rather, it is intended to be a source of frequent reference and seen as a living document. Future editions will update these chapters and provide new chapters focused on other areas of engineering.**

Chapters of the IGS Geosynthetic Handbook, First Edition provide an introduction to geosynthetics and related support systems. In addition, the handbook addresses geosynthetic engineering in roads and pavements, subsurface drainage, erosion and sediment control, reinforced soil systems, barriers in seepage control systems, and environmental protection (e.g. waste containment).

George R. Koerner, PhD, PE is the edition's editor. Contributing authors include Barry Christopher, Eli Cuelho, Chris Lawson, R. Kerry Rowe, Joel Sprague, Jay Sprague, and Kent von Maubeuge.

Webinars – Prerecorded

The following prerecorded webinars are available to purchase on our website. The GSI webinars (1 ½ hours in duration) cover a large variety of topics related to geosynthetics.

www.geosynthetic-institute.org/webinar.htm

Each webinar provides 1.5 Professional Development Hours available upon completion of a short quiz

IGS Members Cost - \$200
(unlimited number of attendees for GSI Members)
Nonmembers Cost - \$250

Courses

The following pre-recorded courses are available through our online bookstore to both members and non-members.

1. Quality Assurance/Quality Control of Geosynthetic in Waste Containment Facilities
(Recordings are available)
2. Construction Inspection of Mechanically Stabilized Earth (MSE) Walls, Berms and Slopes
(Recordings are available)

The third and newest of GSI courses is an On-Line

“Designing with Geosynthetics (DwG)” course. Please go to www.geosynthetic-institute.org/courses.htm and scroll down to Course #3. Here you will see the requisite details. The course itself is completely synchronized with the 6th Edition of the DwG textbook. It consists of 1540 slides with $\approx$ 18 hours of voice over. Contact Jenny Freeman at jenny.freeman@ce.gatech.edu if you want additional information.

Certification

GSI presently has three separate inspector certification programs. One (began in 2006) is focused on QA/QC of field inspection of waste containment geosynthetics and compacted clay liners. The second (began in 2011) is focused on MSE Wall, Berm and Slope field inspection. The third, on Geosynthetic Designer Certification began on September 1, 2016. See our website at www.geosynthetic-institute.org under “certification” for a description and information on all three of them.

Program #1 - Inspection of Liner Systems for Waste Containment Facilities

The Geosynthetic Institute has a pre-recorded “QA/QC of geosynthetics in waste containment facilities” course that can be purchased by anyone wanting to take the course online (accommodates your schedule) in preparation for the GCI-ICP certification exams. More information can be found at: www.geosynthetic-institute.org/courses.htm. TRI Environmental will be giving the course in-person on April 29 and 30 and proctoring the GCI-ICP exams on May 1. To register, please visit <https://tri-environmental.com/education> or contact ckelsey@geosynthetica.com for any questions regarding registration.

Inspector Certification Test Results 2006-2025

Year	Geosynthetic Materials		Compacted Clay Liners	
	No. of people taking exam	No. of people failing exam	No. of people taking exam	No. of people failing exam
2006	141	5 (3%)	128	12 (9%)
2007	82	11 (13%)	73	12 (16%)
2008	95	25 (26%)	89	20 (22%)
2009	36	7 (19%)	36	2 (5%)
2010	59	12 (20%)	54	7 (13%)
2011	54	6 (11%)	53	3 (6%)
2012	34	5 (15%)	28	3 (11%)
2013	32	4 (12%)	30	1 (3%)
2014	45	1 (3%)	42	3 (7%)
2015	56	6 (11%)	51	6 (12%)
2016	36	3 (10%)	35	5 (18%)
2017	78	5 (6%)	66	3 (4%)
2018	53	5 (10%)	51	1 (3%)
2019	114	20 (18%)	119	15 (13%)
2020	100	14 (14%)	92	10 (11%)
2021	70	14 (20%)	61	8 (13%)
2022	89	15 (17%)	80	13 (16%)
2023	81	18 (22%)	76	13 (17%)
2024	67	17 (25%)	57	10 (17%)

2025	59	8 (14%)	48	6 (12%)
Total	1380	201 (14%)	1278	151 (12%)

Program #2 - Inspection of MSE Berms and Slopes

While a field inspector cannot require proper design or direct a contractor how to build a wall, flaws can be identified for possible design modification or mitigation action. Furthermore, and at minimum, construction practices can be observed and corrected if inadequate or improper. The official launch of this inspection program was on December 1, 2011 with a course and the examination afterward. A somewhat revised course on November 29, 2012 was presented. Presently, the corresponding course for this certification program has been transferred into a series of six presentations that have been recorded and can be viewed at your leisure.

Program #3 - Geosynthetic Designer Certification

Please see www.geosynthetic-institute.org/gdcpintro.pdf for the requisite details. Included are introduction requirements, application, reference material, sample questions, proctor manual and proctor application. You must have six-months of geosynthetic designer experience to take the exam.

Applications to sit for the GCI-ICP exams need to be submitted to the Geosynthetic Institute for approval prior to taking the exams. Applications and payment information for the exams can be found at: <https://geosynthetic-institute.org/applications.htm>

The GSI Affiliated Institutes

It has long been realized that the information generated within the GSI group should have a timely outlet to all countries, and in all languages. These affiliated institutes are full members of GSI and are empowered to translate and use all available information so as to create similar institutes and activities in their respective countries. These affiliated institutes are essentially franchises for international countries.

- Presently we have two active in full operation;
 - GSI-Korea, Prof. H. Y. Jeon (INHA University) 3rd ICGEE25 Seoul Korea
 - GSI-India, Dr. T. V. Sreekumar (BTRA, Bombay Textile Research Association)

GSI Member Organizations

We Sincerely thank all 67 (51 full and 16 associate) Member Organizations of the GSI family for their continued guidance and support.

The current GSI member and Associate Member organizations and their contact members are listed below and overleaf.

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*Jacques Cote/Simon Gilbert St-Pierre/
René Laprade and Drew Loizeaux*

U.S. Environmental Protection Agency

Sharon Oxendine

Federal Highway Administration

Silas Nichols/Daniel Alzamora

WSP Inc.

Frank Adams/Paul Whitty/Linda Grover

Tensar International Corporation, Division of CMC

Mark H. Wayne/Joseph Cavanaugh/Jacek Kawalec [BOA]

Solmax Geosynthetics

John Henderson/John Lostumbo/Rene Laprade [BOA]

Minerals Technology/CETCO

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TRI Environmental Inc.

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CARPI, Inc.

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Civil & Environmental Consultants, Inc.

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AGRU America, Inc.

Gunther Niedermoser/Tom Nichols/Markus Haager/

Anthony Johnson [BOA]

INHA (GSI-Korea)

H.-Y. Jeon

Waste Management Inc.

Greg Cekander/Burrill (Bo) McCoy [BOA]

GeoComp/GeoTesting Express

W. Allen Marr/Gary Torosian/Joe Tomei

ATARFIL

Emilio Carreras Torres/Jorge Fernandez Lopez/

Gabriel Martin/Nacho Garcia Arroyo

Republic Services Inc.

Joe Benco/ Mike Beaudoin/Dave Vladic

AERO Aggregates - Inova

Archie Filshill/Theresa Loux

Viaflex

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Jones Edmunds, Inc.

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Edgard A. Chow/Kevin Laux

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Watershed Geosynthetics LLC

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Maccaferri

Moreno Scotto/Sachin Mandavkar

Jones & Wagener (Pty) Ltd.

Jabulile Msiza/Angelique Grieve

INOVA Geosynthetics/AERO Aggregates

Archie Filshill/Theresa Loux

SKAPS Industries

Nilay Patel/Anurag Shah

Duke Energy

Asha Sree/Ken Karably

Chesapeake Containment Systems (CCS)

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Layfield Group

Deepaksh Gulati/Mark Simpson/Brian Fraser

Nortene Plasticos Ltda

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Concrete Canvas

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