Conferenc e: CASE STUDIES

Supported by Geosynthetics Magazine

March 8–10, 2020
North Charleston, SC USA
Charleston Area Convention Center
GeosyntheticsConference.com

Sharing PRACTICAL Applications

Attendee Brochure

save up to $100
on a full registration
by Feb. 7, 2020
Connect with geotechnical professionals representing all facets of the geotechnical industry during **Geosynthetics 2020**. Immerse yourself in a sea of knowledge through in-depth case studies, plenary presentations, and panel discussions presented by experts in the field. Walk the show floor to see the latest developments in geotechnical products and services offered by the industry's top companies and organizations. Plan for plenty of opportunities to network and socialize.

The trade show and all events and education will be held at the Charleston Convention Center, convenient to Charleston International Airport, hotels and a ten-minute drive to historic downtown Charleston.

### Conference Features

- Diverse in-depth case studies
- Three engaging plenary presentations
- Comprehensive short courses offering 4 PDH (Included in Full Registrations)
- Numerous networking opportunities
- Complimentary basic education on the show floor
- Interactive panel and roundtable discussions
- Show floor highlighting geosynthetics products across the industry

**Industries Represented**

- Agriculture
- Construction
- Quality Assurance
- Earthquake Engineering
- Erosion Control
- Field and Laboratory Testing
- Foundations and Slope Stability
- Geophysics
- Golf Course Construction and Maintenance
- Ground Improvement
- Groundskeeping
- Geotechnical, Civil and Environmental Engineering
- Horticulture
- Irrigation
- Landscaping
- Mining
- Nondestructive and Geophysical Evaluation
- Pit, Pond and Reservoir Construction
- Risk Assessment
- Roofing
- Road, Rail and Runway Construction
- Seepage and Drainage
- Solid/Liquid Waste Containment
- Spill Containment
- Transportation
- Waste Management

**March 8–10, 2020 | North Charleston, SC USA**

GeosyntheticsConference.com
Introduction Series Classes

Get started with this FREE series of targeted presentations, designed for beginners, to provide foundation knowledge of what geosynthetics are and how they fit into various projects.

30-Minute Topics

Offered twice: Monday, March 9 and Tuesday, March 10 throughout the day.

Introduction to: Environmental Applications
TBD

Introduction to: Pavement/Transportation Applications
Jie Han, Ph.D., P.E., F.ASCE, University of Kansas

Introduction to: Testing/Material Properties/Quality Assurance
Robert Mackey, P.E., S2Li

Good to Know

Venue Address
5055 International Boulevard
North Charleston, South Carolina 29418 USA

Conference Dress
Business casual attire is appropriate for all Geosynthetics 2020 events.

Travel Documents
A valid passport and visa are required of most visitors to the United States. Check with local consulate or embassy well in advance. Email events@ifai.com for a letter of invitation. Be sure to include:

- full name
- address
- fax number

Letters cannot be e-mailed or sent directly to the embassy or U.S. consulate. Geosynthetics 2020 cannot intervene on behalf of the invitees with the embassy or U.S. consulate via fax, phone, surface mail, or email.
Schedule

**Sunday, March 8**

7 am–5 pm
*Registration Open*

1–5 pm
**IGS-NA Workshop: Professional Issues in Geosynthetics Engineering**
additional fee required
- Ethics in Geosynthetics and Civil Engineering
  Boyd Ramsey, Boyd Ramsey Consulting LLC
- Geopipes
  Michael Pluimer, Ph.D., University of Minnesota Duluth
- Geosynthetic Installation Issues for Designers
  Chris Eichelberger, Agru America, Inc.

5–7 pm
*Exhibit Hall Reception*

**Monday, March 9**

7 am–5 pm
*Registration Open*

8:30–10 am
**Welcome Plenary**
- Volo Interchange Case Study
  Sarah Gaffney, SC-DOT-District 6
- Using Geosynthetics to Help Solve Geotechnical Challenges in the High-Seismic, Soft-Ground Environment of the Port Access Road Design-Build Project
  Michael S. Ulmer, P.E., S&ME Inc.
- Clouter Creek Placement Area—Before and After Geotextiles
  Hanna Gervais, PE and Jason Inskeep, EIT, US Army Corp of Engineers

9 am–5 pm
*Exhibits Open and Learning Zone*

10:15–11:30 am
**Barriers 1**

- Use of Geosynthetic Clay Liners (GCLs) as Groundwater Protection in Infrastructure Constructions
  Kent Von Maubeuge, NAUE GmbH & Co. KG
- Eagle Gold Spillway Lining
  Phill Greer, BEng, Concrete Canvas Ltd
- Environmental Containment Using Reinforced Composite Geomembranes: Qualitative and Quantitative Efficiencies in Installation and Performance
  Richelle Delia, Owens Corning Geosynthetics

**Drainage**

- One of the Largest Prefabricated Vertical Drains Installations in US Accelerates Port of Charleston Expansion
  Aaron Goldberg, P.E., D.GE, Soil & Material Engineers (S&ME); Marty Taube, P.E., Menard USA;
  Richard Goodrum, P.E., D.GE, Soil & Material Engineers (S&ME)
- Behavior of a Drainage Geosynthetic and Reinforced Geomat for the Remediation of a Dismissed Industrial Site in Milano City Area
  Piergiorgio Recalcati, TENAX SpA
- Use of Wicking Fabric to Dehydrate Road Embankment Under Unsaturated Conditions
  Xiong Zhang, Missouri University of Science and Technology

**Quality Assurance**

- Chemical Resistance of a 24-Year Old HDPE Liner Exposed to Industrial Solids and Fluids
  Rutuparna Joshi, P.E., Geosyntec Consultants
- A Continued Report on an Exposed Green Geomembrane Cover in Polk County, Florida
  Boyd Ramsey, Boyd Ramsey Consulting LLC
- Almost Three Decades of Leak Location Data Compiled
  Matthew Kemnitz, Leak Location Services, Inc.

**SPECIAL SESSION**

Organized by Geosynthetics Institute (GSI)
- Three Case Histories Illustrating How Geosynthetics Were Used Effectively for Soft Soil Stabilization Project Near Pigeon Point, Delaware

11:30 am–1:30 pm
*Lunch in Exhibit Hall*
Student Opportunities

Full-time students are invited to expand their horizons at Geosynthetics 2020: CASE STUDIES. Students receive a 70% discount on all registration types and may participate in the student volunteer program.

Visit GeosyntheticsConference.com/student or email bjconnett@ifai.com.

1:30–2:45 pm

**Barriers 2**

- **Construction of Columbus Water Reservoir**
  - Geosynthetic Liner System
  - Timothy Stark, Ph.D., P.E., University of Illinois at Urbana-Champaign
- **Guidance for Today’s Lagoon Liners**
  - Gary Arndt, P.E., PMP, Stantec
- **Prefabricated Geomembrane Liner System—North Alamo Reservoir**
  - Marilyn Walther, Intertape Polymer Group

**Reinforced Slopes**

- **Realignment of County Road with One of the Largest Geogrid Reinforced Slopes Constructed in the State of Minnesota**
  - Stephan Gale, P.E., D.GE, F.ASCE, Gale-Tec Engineering Inc.
- **A Geogrid Reinforced Steep Slope 60.0 m High for the Stabilisation of a Landslide in Northern Italy**
  - Daniele Cazzuffi, CESI SpA
- **Performance of High Strength Geogrid in Reinforced Soil Slope and the Yeager Airport**
  - Robert Bachus, P.E., D.GE, Geosyntec Consultants

**Transportation**

- **Field Verified Benefits of Geogrids to Reduce Risk and Improve Performance of Flexible Pavements**
  - Garrett Fountain, Tensar International Corp. Inc.
- **Recyclable Paving Fabric Protects Indiana Interstate**
  - David Andrews, P.E., and Mark Marienfeld, P.E., Propex GeoSolutions
- **Bituminous Geomembranes (BGM), Over 20 Years of Presence in USA in Transport Applications**
  - Natalie Daly, Axter Coletanche Inc.

**SPECIAL SESSION**

Organized by Fabricated Geomembrane Institute (FGI)

Panel: Construction with Fabricated Geosynthetics

- **Tuesday, March 10**
- **7 am–5 pm**
- **Registration Open**

3:15–4:30 pm

**Protection 1**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>Conductive Multi-Linear Drainage Geocomposites for Improved QA/QC of Leachate Double-Lined Ponds</td>
<td>Stephan Fourmont, Altex-Texel</td>
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<td>GCCM Installed as a Shroud Over Wire Baskets for Containment</td>
<td>Richard Goodrum, Miliken Infrastructure Solutions</td>
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**Vegetation**

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<tr>
<th>Topic</th>
<th>Speaker</th>
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<tr>
<td>The Skeleton Keys of Turf Reinforcement</td>
<td>Lisa Simms, P.E., CPESC, East Coast Erosion Control</td>
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<td>Norton Branch Vegetated Reinforced Soil Slope Revisited After 25 years</td>
<td>Mark Wayne, Ph.D., P.E., Tensar International; Robbin Satir, Robbin B. Sotoir &amp; Associates Inc.</td>
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<td>Maurice River and Johnson Creek Soil Bioengineering Stabilization and Restoration</td>
<td>Robbin Satir, Robbin B. Sotoir &amp; Associates Inc.</td>
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**SPECIAL SESSION**

Organized by ASTM

How ASTM Standards Are Impacted by Case Histories

- **3:15–4:30 pm**

**Reinforced Foundations 1**

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Topics are subject to change. Visit GeosyntheticsConference.com for up-to-date information.
Geosynthetics Reinforced Railway Twinning Project—Canadian National Railway, Aurora, ON
Rene Laprade, P. Eng., TenCate Geosynthetics Americas

Landfill Covers
Case Studies of Extreme Weather Performance of Engineered Turf Final Cover System
Ming Zhu, P.E., Brad Cooley, and Mike Ayers, Watershed Geosynthetics
Guam ORDOT Vegetated Landfill Cap
Al Florez, Geo Products, LLC

SPECIAL SESSION
Organized by Association for Mechanically Stabilized Earth (AMSE)
Vertical and Near-Vertical Geosynthetic-Reinforced MSE Structures—Case Studies on the Influence of Backfill on Alignment of Concrete and Wire Facings

9 am–5 pm
Exhibits Open and Learning Zone

10:30–11:45 am
Airfield Pavements
Use of Geosynthetics in Airport Pavements
Jeffrey Gagnon, P.E., Federal Aviation Administration
Mechanical Stabilization of Foundation Soils for Airfield Pavements in the Mid-Atlantic Coastal Region
Bryan Gee, Geopier Foundation Company; Andrew Isenhour, P.E., Tensar International Corporation

Reinforced Foundations 2
A Case History of Geogrid Versus Stone Columns for Settlement Mitigation
Djan Chandra, Leighton and Associates Inc.
Geogrid Stabilized Working Platform for Ringer Crane in Southern US
Lois Schwarz, Tensar International

Protection 2
Innovative Geosynthetic Technology Saves 100-Year-Old Panama Canal Locks
Tom Stephens, TenCate Geosynthetics
Scour and River Bank Protection in the United Kingdom
Christopher Quirk, B.Sc.,(Hons), MSc., C.Geol., NAUE Geosynthetics Ltd.

SPECIAL SESSION
Organized by Fabricated Geomembrane Institute (FGI)
Roundtable Discussion—Women in Geosynthetics

11:45 am–1:30 pm
Lunch in Exhibit Hall

1:30–2:45 pm
Barriers 3
Underwater Lining for Cofferdam at Druid Hill Reservoir
Bill Shehane, P.E., Seaman Corp.
The Capabilities and Limitations of Electrical Leak Location
Abigail Gilson, TRI Environmental Inc.

Environmental 1
Salt Gradient Solar Pond Containment Liner for Distilling Large Ponds of Brine Water to Fresh Potable Water
John Heap, Raven Engineered Films
A Geosynthetics No-Soil Solution for Closure
Robert Wallace, AECOM

Innovative Backfill
Rebuilding Mountains with Expanded Polystyrene
Brendan Stepek, EIT, and Gary Brill, P.E., Schnabel Engineering LLC
Reconstruction of Failed Roadway Embankments Using Tire-Derived Aggregate MSE Walls
Chris Sneddon, Santa Barbara County Public Works

SPECIAL SESSION
Organized by Geosynthetic Materials Association (GMA)
20+ Years of GMA: What Your Industry Has Done for You

3–4:15 pm
Barriers 4
Inverted Liner System Provides Unique Solution to Contaminated Site Problem
Alan Strecker, Seaman Corp.
Sanitary Sewer Overflow Management—Two Cities’ Successes and Challenges
Felon Wilson, P.E., Seaman Corp.

Environmental 2
Double Lined Tailings Impoundment Upstream Expansion
Kristof Fabian, Ph.D., DGE P.E., MIEAust, Retired
Use of Geosynthetics in Remediation of Bauxite Residue Disposal Area
Bill Smith, P.E., Tetra Tech, Tech.; Ron Morosky, Alcoa Corp; John Gardner, P.E., Smith Gardner, Inc

SPECIAL SESSION
Organized by Association for Mechanically Stabilized Earth (AMSE)
Vertical and Near-Vertical Geosynthetic-Reinforced MSE Structures—Case Studies on the Influence of Backfill on Alignment of Concrete and Wire Facings

Geosynthetics Conference: CASE STUDIES
March 8–10, 2020 | North Charleston, SC USA
GeosyntheticsConference.com
Registration is Open


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<tr>
<th>Registration Type</th>
<th>Member Before Feb. 7</th>
<th>Member Standard</th>
<th>Nonmember Before Feb. 7</th>
<th>Nonmember Standard</th>
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<td>Full Registration</td>
<td>$700</td>
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<td>Includes all scheduled education, activities, trade show, lunches and one short course. Does not include IGS-NA Workshop.</td>
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<td>One Day Only</td>
<td>$375</td>
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<td>$45</td>
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<td>Includes access to the trade show, welcome reception and Introduction Series education only. Does not include classroom education, lunches, short courses or IGS-NA Workshop.</td>
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<td>Short Course</td>
<td>$250</td>
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<td>This is an add-on session for One Day and Trade Show Only registrations. One of three half day short courses on Sunday, March 8.</td>
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<td>IGS - NA WORKSHOP</td>
<td>$20</td>
<td>$20</td>
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<td>This is an add-on session for all registration types. IGS members may register at the member price. All others must pay the non-member price which includes the fee to become a member of IGS-NA.</td>
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Not an IFAI member? Join today at IFAI.com/Membership or 800 486 3947.

*Member rate available for members of IFAI, GMA, IGS-NA or any supporting organizations (See back panel for full list).

Students and Government Employees
Students and government employees may receive additional registration discounts with valid identification. Contact bjconnett@ifai.com for further details.

Registration Questions?
Call 1 651 222 2508 or 1 800 225 4324 (US and Canada).

Hotel Information

The convention center and contracted hotels are conveniently located 5 miles from the Charleston International Airport and 10 minutes from historic downtown Charleston. Conference hotels are within walking distance of the convention center and feature complimentary shuttle service to the airport, convention center, local shopping and dining options.

Contracted Hotels Include

Embassy Suites by Hilton Charleston Airport Hotel and Convention Center (Headquarters Hotel)
5055 International Boulevard
North Charleston, South Carolina 29418 USA

DoubleTree North Charleston Convention Center
5264 International Blvd
North Charleston, South Carolina 29418 USA

Hyatt Place Charleston Airport/Convention Center
3234 West Montague Avenue
North Charleston, South Carolina 29418 USA

Book Your Room Now

Book by Friday, Feb. 14, 2020, to receive a discounted room rate of $179 per night + tax.

GeosyntheticsConference.com
Geosynthetics 2020: Case Studies is organized by the Industrial Fabrics Association International (IFAI) and supported by the Geosynthetic Materials Association, the Geosynthetics magazine and the North American Chapter of the International Geosynthetics Society (IGS-NA), under the auspices of the International Geosynthetics Society (IGS).

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Todd Berger, Geosynthetics magazine
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Secretary General
Barbara Connett, Industrial Fabrics Association International

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ASTM International (ASTM)
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Geo-Institute of ASCE [G-I]
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North American Chapter of the International Geosynthetics Society (IGS-NA)
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US Universities Council for Geotechnical Education and Research (USUCGER)
University of South Carolina, Civil and Environmental Engineering (U of SC)

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