



**GI Soil Improvement Technical Committee Meeting**  
**3:00 pm to 5:00 pm (PST), March 28, 2023, Room 503**  
**Meeting Minutes**

- I. Introductions
  - i. Self-introductions. List of attendees is shown as Attachment A.
  - ii. Committee Officers
    - a. Secretary & Webmaster = Mr. Chris Woods
    - b. Awards subcommittee = Dr. Jie Huang
    - c. Technical conference paper chair = Dr. Aaron Gallant
    - d. Liaison with ISSMGE TC211 Committee = Dr. Vernon Schaefer
    - e. Past chair = Dr. Jie Han
    - f. Vice chair = Dr. Armin Stuedlein
    - g. Chair = Dr. José Clemente
- II. Committee succession
  - i. *Jose has indicated that he will step down when his three-year term is up in 2024, Armin will then assume the role of Committee Chair, pending approval by the Board of Governors. Rotation will then proceed as has been the process with the Secretary (Chris Woods) moving to the role of Vice-Chair. The committee will seek nominations for the role of Secretary (preferably somebody from academia to maintain the desired committee leadership rotation between members from the industry and academia).*
  - ii. *Additional discussion will take place at a later date when Jose is available.*
- III. Approval of 2022 committee meeting [minutes](#).
  - i. *Motion by Aaron Gallant to approve, seconded by Tim Siegel. Motion approved.*
- IV. Update from the G-I Board – Dr. Jie Han
  - i. *Jie discussed the success of this committee in award nominations and commended the Awards Chair, Jie Huang.*
  - ii. *Call for nominations will be open soon for open Board of Directors positions. Can nominate others or yourself.*
- V. Update from the G-I Technical Council Committee – Mr. Derrick Dasenbrock
  - i. *Derek was tied up in other committee meetings and unable to present.*
- VI. Updates from the G-I – Ms. Krystina Scott
  - i. *Committee doing great with updates for GeoTechTools.*
  - ii. *\$90,000 has been approved by the Board for Special Projects for the coming year.*
  - iii. *Committee participation in the 2022 web conferences was excellent.*
  - iv. *This year's web conference week will be Dec 4 to 8; call for abstracts in June.*
  - v. *Prior year's web conferences are available online for PDH opportunities.*
  - vi. *Next specialty conference will be GeoRisk in July in Arlington, Virginia.*
  - vii. *GeoEnvironmental Conference in Portland in September.*
  - viii. *2025 – GeoExtreme, location to be determined.*
- VII. ASCE Publications – Ms. Natalie Webster
  - i. *Natalie was present to discuss ASCE publications.*
  - ii. *35 peer-reviewed journals.*
  - iii. *50 to 60 new books per year.*
  - iv. *Publications department is here to help find a home for content that is being developed.*
  - v. *Last three books are all by Embankment Dams and Slopes committee.*
  - vi. *Slides from Natalie's presentation are attached to the minutes for reference at Attachment B.*



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- VIII. G-I IDEA and GTT – Mr. Jeffrey Greenwald
- i. *IDEA is a program to help provide a framework to propose changes to standard practice by folks not associated with a specific system or technology.*
  - ii. *GTT is a continuation of the work started at Iowa State with Dr. Schaefer.*
  - iii. *List of soil improvement technologies for use by the public.*
  - iv. *Mary Ellen Large is currently working with the publications group to develop a standardized approach to case studies to be used by GeoTechTools. GTT was originally developed to be transportation based – needs to be updated to be more reflective of overall construction.*
  - v. *Summary slides from Mr. Greenwald's presentation are provided in Attachment C.*
- IX. GeoTechTools – Dr. Vernon Schaefer
- i. *Dr. Schaefer not present owing to internet issues on-site.*
- X. Past Project update
- i. *"Solidifying" Bio-mediated Soil Improvement methods in GeoTech Tools - Dr. Leon van Paassen (in cooperation with the Soil Properties and Modeling Committee)*
    - i. *Recent research has been completed and is being used to help form the basis for the Bio-remediation section on GeoTechTools.*
    - ii. *Presently working to draft the documents in the GTT format; will be reviewed and presented to the committee as soon as possible.*
    - iii. *A new proposal will be forthcoming for this year to continue this project.*
  - ii. *Addition of Ground Freezing Ground Improvement Technology to GeoTechTools – Dr. Prabir Kolay and Dr. Joseph Sopko*
    - i. *Draft documents have been reviewed by Vern Schaefer; comments being addressed by project team for presentation to the committee for review.*
    - ii. *Any committee members who have expertise in ground freezing and would be interested in providing technical review and comment on behalf of the soil improvement committee should reach out to Chris Woods.*
- XI. On-going Project Update
- i. *Updating Dynamic Compaction in GeoTechTools – Mr. Chris Woods*
    - i. *Literature review is underway – document updates will begin later this summer.*
    - ii. *Anticipate completing this project before the end of 2023.*
- XII. Ideas for New Projects in 2023-2024-[GeotechTools](#), DIGGS, committee-initiated project
- i. *One idea will be the continuation of the Bioremediation GTT work.*
  - ii. *Budget allotments from the TCC range from \$3,000 to \$17,000 for project funding.*
- XIII. ISSMGE TC211 Committee - Dr. Vernon Schaefer
- i. *Dr. Schaefer not present owing to internet issues on-site.*
- XIV. FHWA Update – Mr. Silas Nichols
- i. *NEHRP has authorized the preparation of a ground modification specification to be used by AASHTO.*
  - ii. *Project should be underway within the next few months.*
  - iii. *Should be a 24-month project.*
  - iv. *NEHRP Panel 10-121 is the method statement.*
- XV. DFI Ground Improvement Committee Update – Mr. Timothy Siegel/Mr. Matt Glisson
- i. *Tim started off by reiterating the desire to coordinate efforts between the GI Soil Improvement Committee and the DFI Ground Improvement Committee.*



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- ii. *Matt pointed out the call for RFP for committee projects coming forward soon - \$100,000 to \$150,000 per year set aside by the DFI board.*
- iii. *Upcoming events – [Super Pile](#) in Atlanta in June, [S3](#) in Boston in August, [DFI Annual Conference](#) in Seattle in October.*
- XVI. Award Nominations – Dr. Jie Huang
  - i. *Three nominations this year, Wallace Hayward Baker Award (Jerry DiMaggio) - won, Harry Schnabel Jr. Award (Allen Cadden) - won, Martin Kapp Foundation Award (Matt Meyer) – won.*
  - ii. *DFI Ground Improvement Committee to provide a list of folks for consideration for the Schnabel award next year – contractor is the category in the rotation for the year.*
- XVII. Committee [Website](#) – Mr. Chris Woods
  - i. *Keep news items coming, will be sure to get them published on the website along with deliverables from ongoing committee projects.*
- XVIII. G-I Speaker Program, Web Conference – Dr. Armin Stuedlein
  - i. *Excellent committee participation this year – five strong presentations; a summary of the presentations are provided in Attachment D.*
  - ii. *Webinars are still available online for PDHs.*
  - iii. *The committee plans to participate in this coming year's web conference week.*
- XIX. GeoCongress 2023/2024 and IFCEE 2014 Update – Dr. Aaron Gallant
  - i. *The committee's help in reviewing papers was excellent.*
  - ii. *Two special sessions were submitted, neither was accepted for this year.*
  - iii. *These special sessions have been resubmitted for GeoCongress 2024 and IFCEE. Rigid inclusions session was submitted to IFCEE, soft soils was submitted to GeoCongress 2024.*
  - iv. *Any ideas for future special sessions, please submit them to the committee leadership.*
- XX. Upcoming GI Events
  - i. [34<sup>th</sup> Central PA Geotechnical Conference](#), Hershey, PA, April 5-7, 2023
  - ii. [Geo-Risk 2023](#), Arlington, VA, July 23-26, 2023
  - iii. [Geo-Congress 2024](#), Vancouver, BC, February 25-28, 2024
  - iv. [IFCEE 2024](#), Dallas, TX, May 7-10, 2024 – GTT session with DFI (Mary Nodine, FHWA)
- XXI. Upcoming International Events
  - i. *The 4<sup>th</sup> International Conference on Ground Improvement and Ground Control, Cape Town, South Africa, originally scheduled for 29th to 31st March 2021, postponed, new dates TBD*
  - ii. [5<sup>th</sup> International Conference on Transportation Geotechnics](#), Sydney, Australia, November 18-20, 2024
  - iii. [GeoShanghai](#) to be held May 26-29, 2024.
- XXII. Announcements
  - i. *None to report.*
- XXIII. Other or New Business
  - i. *Armin raised the point that a specialty ground improvement conference has happened in the past on a 10-year cycle, and we may have missed the last one. Suggested collaborating with DFI Ground Improvement to develop this for perhaps 2025.*
  - ii. *ASCE Foundation Standard Committee Update – Billy Camp*
    - i. *Progress is slow but moving forward.*
    - ii. *Upcoming in-person meetings in Reston on April 12/13.*
    - iii. *Idea is to produce a standard that effectively replaces Chapter 18 of the IBC.*



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- iii. *Mary Nodine provided an update on the subsurface characterization committee efforts towards development of a module for GTT. RFP will be coming for efforts related to committee meetings at the upcoming IFCEE conference.*

XXIV. Meeting brought to a close at 4:35pm PST by Armin Stuedlein, presiding committee officer.



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Attachments: Attachment A – Attendance List  
Attachment B – ASCE Publications Update Slides  
Attachment C – G-I Technical Activities Update Slides  
Attachment D – December 2022 Web Conference Ground Improvement Presentations



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**Attachment A – Attendee List**

Chris Woods	Silas Nichols
Armin Stuedlein	Natalie Webster
Lyle Simonton	
Miriam Smith	
Matthew Glisson	
Allen Bowers	
Rich Lamb	
Chulmin Jung	
Alexandra Clara Saracho	
Leon Van Paassen	
Angle Gutierrez	
Jie Huang	
Tim Siegel	
Aaron Gallant	
Kord Wissmann	
Jie Han	
Lisheng Shao	
David Miller	
Brian Metcalfe	
Marty Taube	
Scott Mackiewicz	
Avipriyo Chakraborty	
Billy Camp	
Qasim Abu-Kassab	
Hussein Alqrinawi	
Muath Abuqamar	
Muhammad Suleiman	
Jobairz Alam	
James Gingery	
Gwendolyn Amerrguin	
Brian McGlynn	
Rachel Kizer	
Melanie Pinto	
Edward Sergio	
Guoming Lin	
Monica Prezzi	
Dimitri Lekkakis	
Krystina Scott	
Quadri Babatunde	

# Publish with ASCE

Geo-Congress 2023

Natalie Webster  
Acquisitions Editor for ASCE Publications  
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# ASCE Publications Snapshot

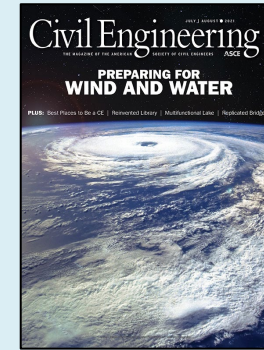
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- 35 peer-reviewed journals
- 93,000 Technical Papers
- 40-year archive (1983 to present)



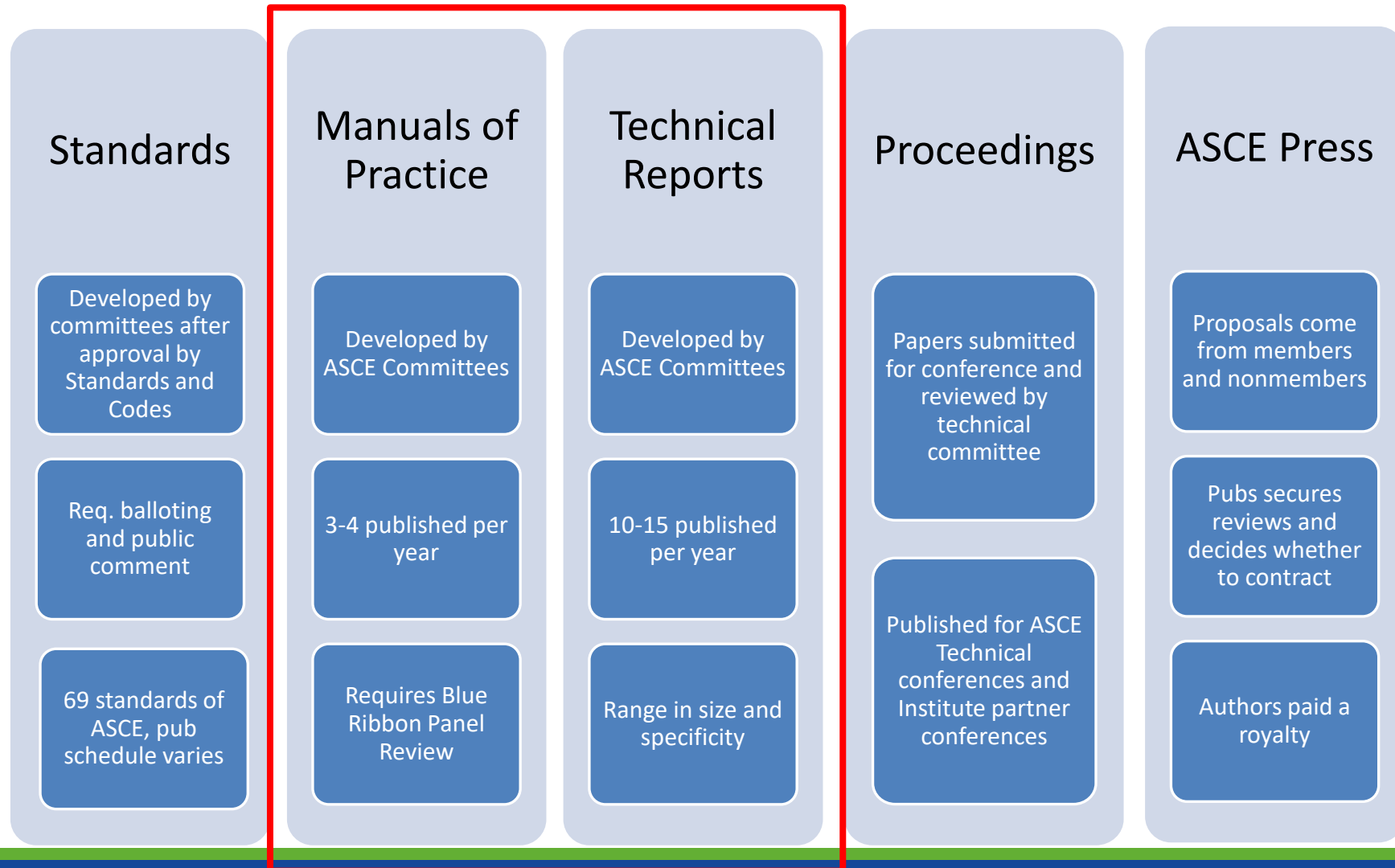
- 50-60 new books annually, with a backlist of 550+
- 660+ Proceedings | 68,000 papers
- 100+ ASCE Standards
- 350+ E-books (many available by the chapter)



*Civil Engineering*  
Magazine  
(2005-2023)

# Product Lines

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# Committee Publications

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## Manuals of Practice

Developed by ASCE  
Committees

3-4 published per year

Requires Blue Ribbon Panel  
Review

## Technical Reports

Developed by ASCE  
Committees

10-15 published per year

Range in size and specificity

**NOTE:**  
Most in Geo-  
Institute  
publications  
are approved  
as GSPs/GPPs,  
but it is not  
required!

**Build on your published content!**

Technical Report/MOP, 1<sup>st</sup> Edition -> Technical Report/MOP, 2<sup>nd</sup> Edition -> etc.

Technical Report -> MOP -> Standard

# Publications Acquisitions

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## Early Development

- Initial conversations about content, focus, audience, aims & scope, potential format, timeline, pitfalls, tips & tricks
- Offer support, guidance, tools, references while writing
- Periodic check-ins to see progress and answer any questions

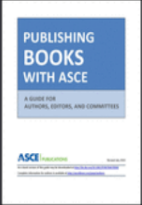
## Late Development

- Metadata preparation
- Permissions
- CTAs
- Reviews
  - MOP: Blue Ribbon Panel
  - Technical Report: Internal committee review
  - ExCom approval

# ASCE's Guide to Book Publishing

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Details



BOOK  
**Publishing Books with ASCE**  
A Guide for Authors, Editors, and Committees

[View book page](#)

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Publisher	American Society of Civil Engineers
ISBN	9780784478998
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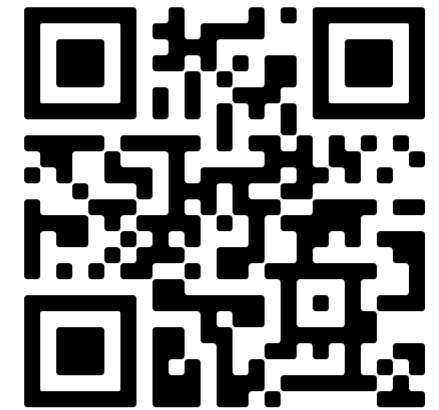
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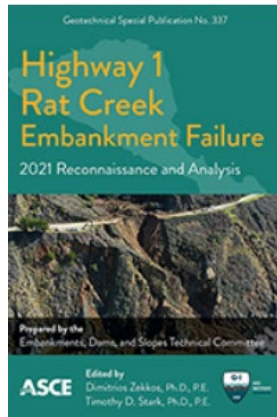
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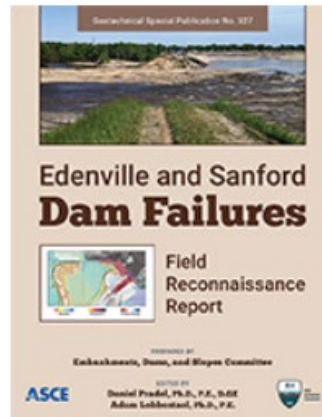


# G-I Publications

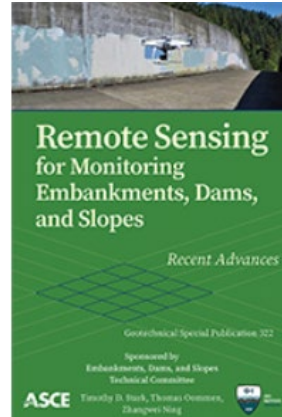
## New G-I books



*Highway 1 Rat  
Creek  
Embankment  
Failure: 2021  
Reconnaissance  
and Analysis*



*Edenville and  
Sanford Dam  
Failures: Field  
Reconnaissance  
Report*



*Remote Sensing  
for Monitoring  
Embankments,  
Dams, and  
Slopes: Recent  
Advances*

**Produced by the Embankments, Dams, and Slopes Committee**

## Two high-impact ASCE/G-I journals



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# Usage Statistics

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*2020-2022*

Number of views of Full Text: 208,654

Number of views of Abstracts: 1,857,350

# ASCE Publications Resources and Contacts

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## Publications Resources

- ASCE Library, <https://ascelibrary.org>
- ASCE Bookstore, <https://www.asce.org/publications-and-news>
- ASCE 7 Online, <https://asce7.online>
- ASCE Hazard Tool, <https://asce7hazardtool.online/>
- CEDB, <http://cedb.asce.org>

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# Overview

- The Innovations, Developments, Enhancement and Advancements Program
  - Provide a consistent framework to propose changes to standard practice that owners may take advantage of by expanding ERS innovations in their projects.
- GeoTechTools
  - Toolkit of geotechnical information to address all phases of decision making from planning to design to construction

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# IDEA: <https://www.geoinstitute.org/special-projects/idea>



## Title

Reinforced Earth MSE with Precast Concrete Facing Panels and Inextensible Soil Reinforcement

Redi-Rock Precast Modular Retaining Wall System

MSE Plus Wall System

EarthTec Reinforced Soil Wall System

Stone Strong Precast Modular Retaining Wall System

LOCK+LOAD Retaining Wall System with Tencate Geosynthetic Geogrid Reinforcement

KeySystem Compac III Retaining Wall System, Keystone Retaining Wall Systems LLC

Anchor Diamond Pro PS Wall System, Anchor Wall Systems

Vistawall Stabilized Earth Wall

Title	Date	
Alabama DOT Supplemental Requirements	December 2020	<a href="#">Download</a>
Alaska DOT Supplemental Requirements	July 2021	<a href="#">Download</a>
Arizona DOT Supplemental Requirements	June 2021	<a href="#">Download</a>
Arkansas DOT Supplemental Requirements	June 2021	<a href="#">Download</a>
California DOT Supplemental Requirements	August 2021	<a href="#">Download</a>
Colorado DOT Supplemental Requirements	June 2021	<a href="#">Download</a>
Connecticut DOT Supplemental Requirements	August 2021	<a href="#">Download</a>
Delaware DOT Supplemental Requirements	June 2021	<a href="#">Download</a>
District of Columbia DOT Supplemental Requirements	May 2021	<a href="#">Download</a>
Florida DOT Supplemental Requirements	June 2021	<a href="#">Download</a>
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Maryland DOT Supplemental Requirements	December 2020	<a href="#">Download</a>
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Texas DOT Supplemental Requirements	December 2020	<a href="#">Download</a>
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# GeoTechTools

GeoTechTools is a toolkit of geotechnical information to address all phases of decision making from planning to design to construction. All infrastructure projects can be designed to be built faster, to be less expensive, and/or to last longer with the use of these tools.

APRIL 2019

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# GeoTechTools

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- Blasting Densification
- Bulk-Infill Grouting
- Chemical Grouting/Injection Systems
- Chemical Stabilization of Subgrades and Bases
- Column-Supported Embankments
- Combined Soil Stabilization with Vertical Columns
- Compaction Grouting
- Continuous Flight Auger Piles
- Deep Dynamic Compaction
- Deep Mixing Methods
- Drilled/Grouted and Hollow Bar Soil Nailing
- Electro-Osmosis Excavation and Replacement
- Fiber Reinforcement in Pavement Systems
- Geocell Confinement in Pavement Systems
- Geosynthetic Reinforced Construction Platforms
- Geosynthetic Reinforced Embankments
- Geosynthetic Reinforcement in Pavement Systems
- Geosynthetic Separation in Pavement Systems
- Geosynthetics in Pavement Drainage
- Geotextile Encased C
- High-Energy Impact
- Hydraulic Fill with G
- Vacuum Consolidation
- Injected Lightweight
- Intelligent Compaction
- Jet Grouting
- Lightweight Fill
- Mass Mixing Method
- Mechanical Stabilization and Bases
- Mechanically Stabilized System
- Micropiles
- Onsite Use of Recycled Materials
- Partial Encapsulation
- Prefabricated Vertical Preloading
- Rapid Impact Compaction
- Reinforced Soil Slopes
- Sand Compaction Piles
- Screw-in Soil Nailing
- Shoot-in Soil Nailing
- Shored Mechanically Stabilized Earth Wall System
- Traditional Compaction
- Vacuum Preloading with and without Prefabricated Vertical Drains
- Vibrocompaction
- Vibro-Concrete Columns

Case Histories

Photographs

QC/QA  
Procedures

Specifications

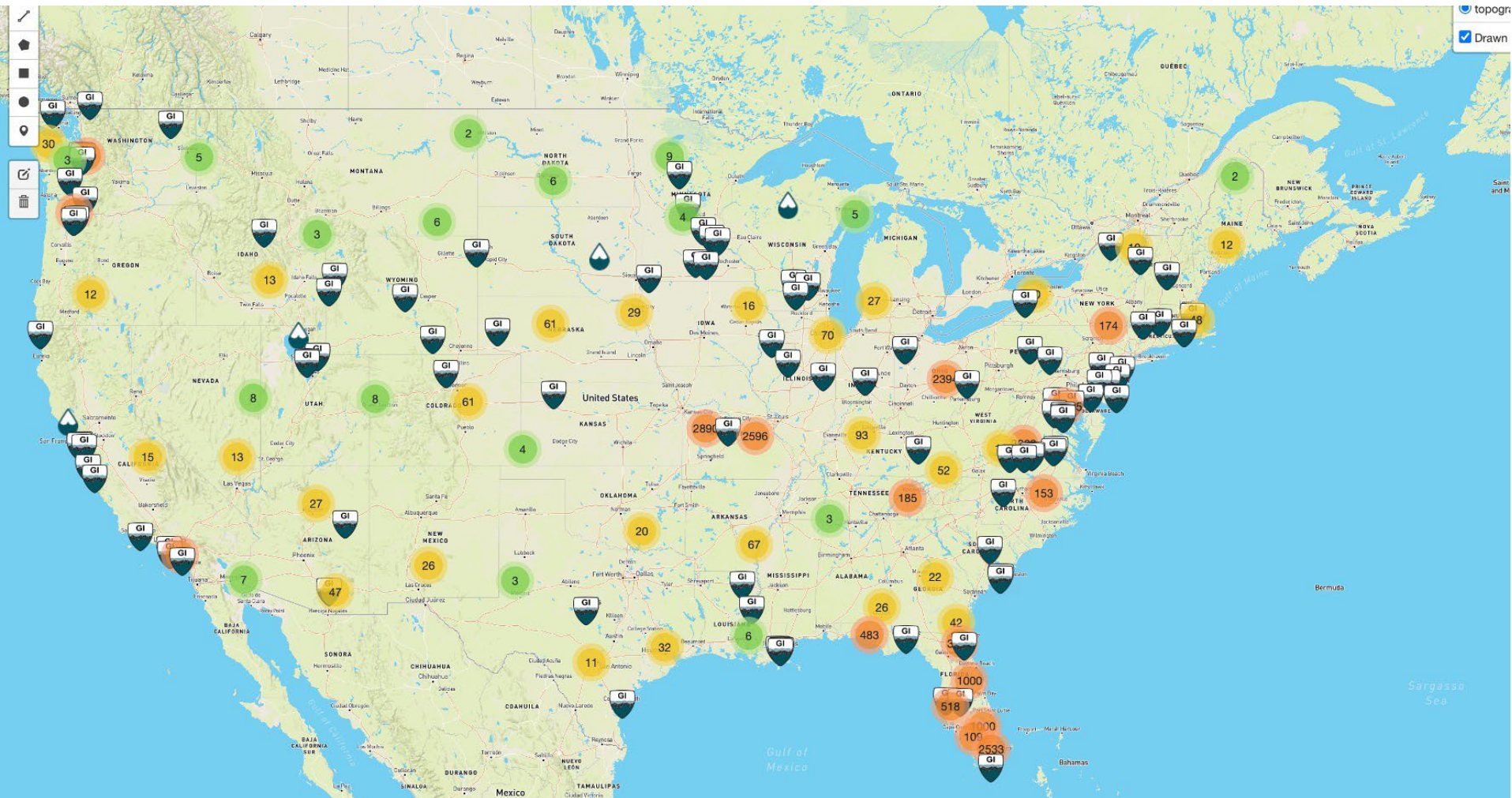
Technology  
Fact Sheets

Design  
Procedures

Cost  
Estimating  
Tools

Technical  
Bibliography







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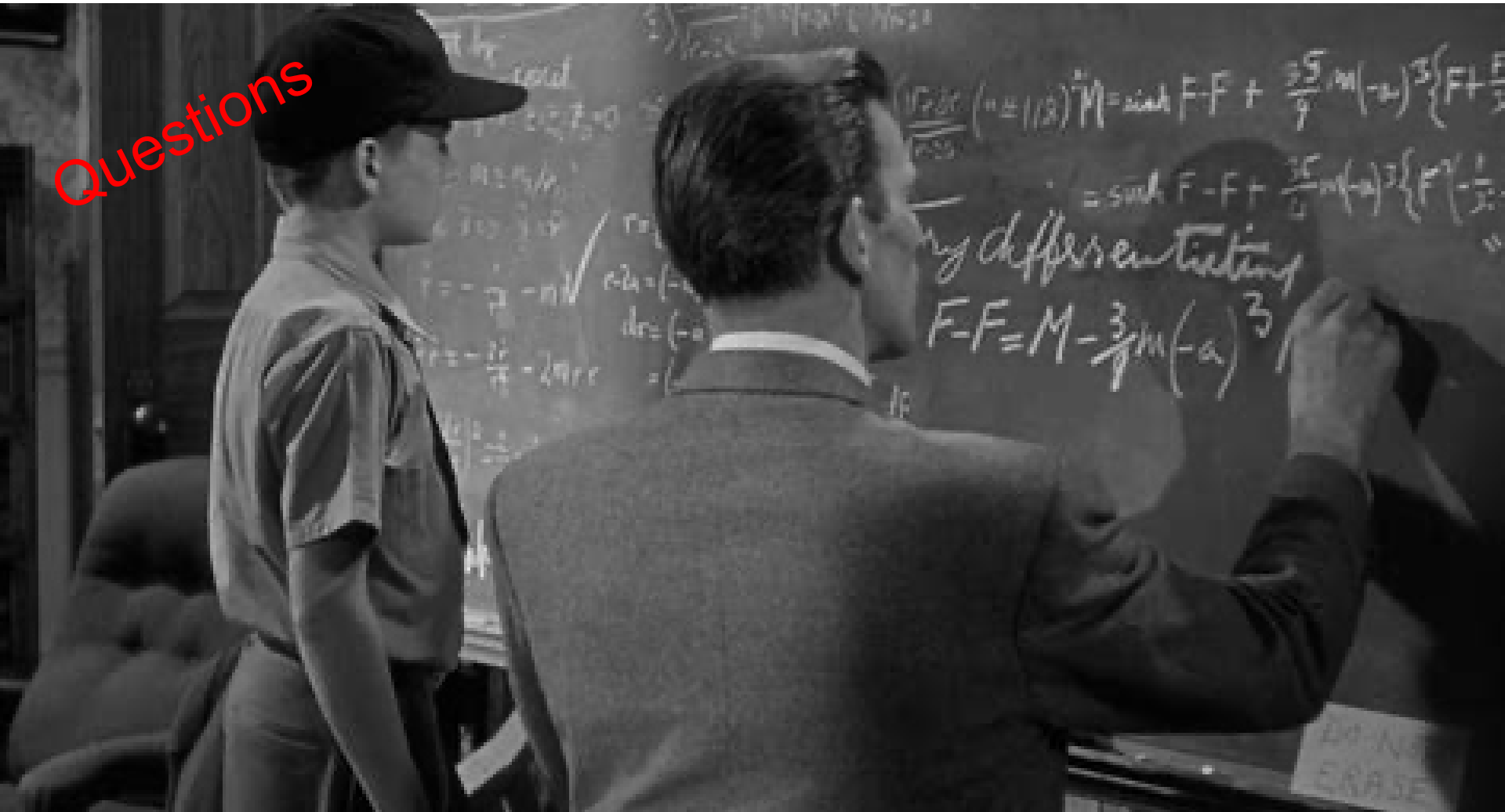
# Special Projects

- To be presented at Committee Meeting



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Questions



## **“Case Histories in Soil Improvement for Civil Infrastructure”**

*This session will provide attendees with recent advances in Soil Improvement ranging from the immediately-applicable to technological advances that hold significant promise for improving civil infrastructure.*

### **Session Presentations**

1. *Talk #1: Case Histories on the use of Rigid Inclusions and Dynamic Compaction for Municipal Solid Waste Sites. Presented by Sonia Sorabella Swift, P.E. and John Myers, P.E.*
2. *Talk #2: WooSox Residential Development: A Case Study on Rigid Inclusion Quality Control. Presented by G. Allen Bowers, Jr., PhD, PE, M.ASCE*
3. *Talk #3: Stabilization of Subgrade Materials via Accelerated Carbonation. Presented by Aaron Gallant, PhD, PE, M.ASCE*
4. *Talk #4: Ground Improvements for Georgia Ports Mason Mega Rail Project. Presented by Guoming Lin, Ph.D., G.E., D.GE.*
5. *Talk #5: Twin Ports Interchange - Test Column Supported Embankment. Presented by Rich Lamb, P.E. M. ASCE*
6. *Interactive Panel Session Q & A*