2019 Conference Program

In Cooperation with:

Academy of Geo-Professionals
Geo-Institute of ASCE
International Society for Micropiles
U.S. Federal Highway Administration

Media Partner:

PileBuck International, Inc.

www.dfi.org/S3-2019
Technical Program Committee

Conference Chairs
Christopher Ramsey, P.E.
Wood Environment & Infrastructure Solutions, Inc.
Deep Foundations for Landslides/Slope Stabilization Committee Chair
Edward Laczynski, P.E., Wagman Heavy Civil, USA
Jeff Segar, P.E., S.E., Braun Intertec
DFI/ADSC Anchored Earth Retention Committee Co-Chairs

Program Chair
Johanna Simon, P.E., Schnabel Engineering, LLC

Committee Members
Tanner Blackburn, Ph.D., P.E., Hayward Baker, Inc.
Giovanni Bonita, Ph.D., P.E., PG, GEl Consultants, Inc.
Robert Johnson, Hayward Baker, Inc.
Erik Loehr, Ph.D., P.E., University of Missouri
David Miller, P.E., ADM Consulting
Thomas Richards, Jr., P.E., D.GE, Nicholson Construction Company
Martin Taube, P.E., P.G., Menard USA
Stefano Valagussa, Trevicos Corporation
Gerald Verbeek, M.Sc, Allnamics Pile Testing Experts BV

Software Discussion
Mitchell Bauche, Bentley
Krishna Chaudhary, Bentley
David DeGagne, Itasca Consulting Group Inc.
Murray Fredlund, Ph.D., P.Eng, SoilVision Systems, Ltd | Bentley
Garry Gregory, Ph.D., P.E., D.GE, Gregory Geotechnical & Oklahoma State University
Sina Javankhoshdel, Ph.D., Rocscience Inc.
Ed Laczynski, Wagman Heavy Civil
Ruth McKeown, SoilVision Systems Ltd
Christopher Ramsey, P.E., Wood Environment & Infrastructure Solutions, Inc.
Thomas Richards, Jr., P.E., D.GE, Nicholson Construction Company
Jeff Segar, P.E., S.E., Braun Intertec
John Wolosick, P.E., D.GE, Hayward Baker Inc.
Stephen Wright, Ph.D., P.E., University of Texas at Austin
Varun Varun, Ph.D., Itasca Consulting Group Inc.

Deep Foundations Institute
Theresa Engler, Executive Director
Mary Ellen Bruce Large, P.E., D.GE, Director of Technical Activities
Lauren F. Nance, CMP, Senior Meetings and Events Specialist
Angie Gibble, Meetings and Events Specialist

Conference Information

Wi-Fi Access Info
Network Name (SSID): CONFERENCE | Passcode: S3is4me

To Access Online Proceedings
The conference proceedings for DFI S3-2019 will be available approximately two weeks following the event. A web link and instructions to access the proceedings will be sent to the email address we have on file for each attendee. Please send an email to events@dfi.org for more information or stop by the Registration Desk.

Registration Hours | Winter Garden
Tuesday, August 6 ......................................... 4:00 p.m. – 6:00 p.m.
Wednesday, August 7 ................................... 7:00 a.m. – 5:30 p.m.
Thursday, August 8 ....................................... 7:15 a.m. – 5:15 p.m.

Exhibit Hall Hours | Depot Pavilion
Tuesday, August 6 (Set-Up) .......................... 4:00 p.m. – 8:00 p.m.
Wednesday, August 7 ................................... 7:00 a.m. – 6:30 p.m.
Thursday, August 8 ....................................... 7:15 a.m. – 3:30 p.m.
Thursday, August 8 (Break-Down) ................ 3:30 p.m. – 5:30 p.m.

DFI Women in Deep Foundations Committee Fundraiser
Night at the Ballpark | Target Field

Tuesday, August 6
Minnesota Twins vs. Atlanta Braves at Target Field
Advanced Ticket Purchase Required

Departure Point: Meet in Hotel Lobby at 6:00 p.m.
Group will take the Light Rail to the park.
Cost: About $2.00 each way. Game begins at 7:10 p.m.

Arriving to the Ballpark on your own?
Visit www.metrotransit.org/twins for rail schedules.
### PRE-CONFERENCE SCHEDULE* | TUESDAY, AUGUST 6

- **4:00 p.m. - 6:00 p.m.** Conference Registration | Winter Garden
- **4:00 p.m. - 8:00 p.m.** Exhibitor Set-Up | Depot Pavilion
- **4:30 p.m. - 6:00 p.m.** Deep Foundations for Landslides/Slope Stabilization Committee Meeting | Rock Island
- **6:15 p.m.** Departure for Women in Deep Foundations Committee Night at the Ballpark | Meet in Hotel Lobby

**Minnesota Twins vs. Atlanta Braves at Target Field (Game begins at 7:10 p.m.)**

### CONFERENCE SCHEDULE* | DAY ONE | WEDNESDAY, AUGUST 7

- **7:00 a.m. - 8:00 a.m.** Conference Registration | Winter Garden
- **7:00 a.m. - 8:00 a.m.** Networking Breakfast and Exhibition | Depot Pavilion
- **8:15 a.m. - 10:00 a.m.** OPENING PLENARY SESSION | Moderator for Morning Sessions: Chris Ramsey, P.E., DFI Deep Foundations for Landslides/Slope Stabilization Committee Chair | Wood Environment & Infrastructure Solutions, Inc., USA
  - **8:15 a.m. - 8:30 a.m.** Welcome and Introductions
    - DFI Executive Director: Theresa Engler and DFI-ADSC Anchored Earth Retention Committee Co-Chairs: Jeff Segar, P.E., S.E. | Braun Intertec, USA and Ed Laczynski, P.E. | Wagman Heavy Civil, USA
  - **8:30 a.m. - 9:15 a.m.** Slope Stability Calculations
    - Stephen Wright, Ph.D., P.Eng. | University of Texas at Austin, USA
  - **9:15 a.m. - 9:45 a.m.** Land Instability and Landslide Impacts on Minnesota’s Roads and Bridges: Selected Project Highlights Describing Assessment, Investigation, Design, Construction, and Performance Monitoring
    - Derrick Dasenbrock, P.E., D.GE, F.ASCE | Minnesota Department of Transportation, USA
  - **9:45 a.m. - 10:00 a.m.** Software Discussion Introduction
    - Chris Ramsey, P.E. | Wood Environment & Infrastructure Solutions, Inc., USA
- **10:00 a.m. - 10:30 a.m.** Networking Break and Exhibition | Depot Pavilion
- **10:30 a.m. - 12:30 p.m.** PLENARY SESSION 2 | Stabilization with Tiebacks
  - **10:30 a.m. - 11:00 a.m.** Comparison of Analysis/Design Methods for Slope Stabilization
    - Yuderka Trinidad-Gonzalez, M.S. | Iowa State University, USA
  - **11:00 a.m. - 11:30 a.m.** Evaluation of 2D vs. 3D Anchor Analysis Approaches
    - Murray Fredlund, Ph.D., P.Eng. | Bentley Canada Inc., Canada
  - **11:30 a.m. - Noon** 3D Slope Stability Analysis for a Landslide in Marlboro Clay Formation
    - Sina Javankhoshdel, Ph.D. | Rocscience, Canada
  - **Noon - 12:30 p.m.** Design by Numerical Methods of a Pile Supported Landslide Stabilization in Encino, California
    - Daniel Pradel, Ph.D, P.E., G.E., D.GE | The Ohio State University, USA
- **12:30 p.m. - 1:30 p.m.** Networking Lunch and Exhibition | Depot Pavilion
- **1:30 p.m. - 3:00 p.m.** PLENARY SESSION 3 | Stabilization with Micropiles
  - **1:30 p.m. - 2:00 p.m.** Restoring RW5 at Yeager Airport: Design and Construction of a Tall Retaining Wall on the Side of a Mountain Using Risk-Based Design
    - Johanna Simon, P.E. | Schnabel Engineering, USA
  - **2:00 p.m. - 2:30 p.m.** SR 30 Emergency Landslide Repair, When a Plan Comes Together
    - Brian Heinzl, P.E. | Gannett Fleming, Inc., USA
  - **2:30 p.m. - 3:00 p.m.** Installing a Soldier Pile & Lagging Wall Entirely in Uncontrolled Fill Next to an Active Highway
    - Yaser Taheri, P.E. and Robert Ross, P.E. | Moretrench, USA
- **3:00 p.m. - 3:30 p.m.** Networking Break and Exhibition | Depot Pavilion
- **3:30 p.m. - 4:00 p.m.** PLENARY SESSION 4 | Excavation Support (Soil Mixing/Slurry Walls) and SSI Case Histories
  - **3:30 p.m. - 4:00 p.m.** Rigid Inclusions for MSE Wall Support at Bridge Approach in Forest Lake, Minnesota
    - Alex Potter-Weight, P.E. | Menard Group, USA and Gregory Reuter, P.E., P.G., D.GE | American Engineering Testing, USA
  - **4:00 p.m. - 4:30 p.m.** Solving Site Constraints and Stability Problems using Safe Working Platforms
    - Wystan Carswell, Ph.D., P.E. | Haley & Aldrich, USA
  - **4:30 p.m. - 5:00 p.m.** Case Study: MSE Wall Repair and Construction Topics
    - Dru Miller, P.E. | GeoStabilization International, USA
- **5:00 p.m. - 6:30 p.m.** Networking Reception and Exhibition | Depot Pavilion

*Subject to Change
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 7:15 a.m. - 8:15 a.m. | Registration | Winter Garden  
Networking Breakfast and Exhibition | Depot Pavilion  
Moderators & Speakers Technical Rehearsal | Great Hall |

» All Functions are on the First Floor «

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 8:15 a.m. - 12:30 p.m. | PLENARY SESSION 5 | Excavation Support and Stabilization (Tiebacks)  
Moderator for Morning Sessions: Jeff Segar, P.E., S.E., DFI-ADSC Anchored Earth Retention Committee Co-Chair | Braun Intertec, USA |
| 8:15 a.m. - 8:30 a.m. | Welcome and Introductions | Chris Ramsey, P.E. | Wood Environment & Infrastructure Solutions, Inc., USA  
Ed Laczynski, P.E. | Wagman Heavy Civil, USA |
| 8:30 a.m. - 9:00 a.m. | Metropolitan Soil Nail, Shotcrete and Micropiles in Karst Geology | Ed Laczynski, P.E. | Wagman Heavy Civil, USA |
| 9:00 a.m. - 9:30 a.m. | Bedrock Characterization from Investigation through Excavation in New York City | Robert Garfield, P.G. | Hager-Richter Geoscience, Inc., USA  
Scott Garfield, P.G. | Langan Engineering, USA |
| 9:30 a.m. - 10:00 a.m. | Block and Anchor Slope Stabilization of US HWY 2 in Burlington, ND | Justice Harvieux | Hayward Baker, Inc., USA |
| 10:00 a.m. - 10:30 a.m. | Passive (Micro-)Seismic Event Detection for Slope Stability Monitoring | Gerald Verbeek, M.Sc | Verbeek Management Services, USA  
Erick Baziw, Ph.D. | Baziw Consulting Engineers, Ltd., USA |
| 10:30 a.m. - 11:00 a.m. | Networking Break and Exhibition | Depot Pavilion |
| 11:00 a.m. - 12:30 p.m. | Software Discussion and Panel Webinar | Facilitators: Stephen Wright, Ph.D., P.E. | University of Texas at Austin, USA  
and Chris Ramsey, P.E. | Wood Environment & Infrastructure Solutions, Inc., USA  
Varun Varun, Ph.D. | Itasca Consulting Group, USA  
Jeff Lam, M.Eng., P.Eng. and Sina Javankhoshdel, Ph. D. | Rocscience, Canada  
Murray Fredlund, Ph.D., P.Eng. and Mitchell Bauche | Bentley Systems Inc., Canada |
| 12:30 p.m. - 1:30 p.m. | Networking Lunch and Exhibition | Depot Pavilion |
| 1:30 p.m. - 3:00 p.m. | PLENARY SESSION 6 | Ground Improvement  
Moderator for Afternoon Sessions: Johanna Simon, P.E., S3-2019 Program Chair | Schnabel Engineering, USA |
| 1:30 p.m. - 2:00 p.m. | Use of Soil Nail Walls for Temporary Excavation Support of a 60-Foot (18-meter) Deep Excavation in Downtown Madison, WI | Chad Underwood, P.E., P.G., D.GE | Engineering Partners, USA |
| 2:00 p.m. - 2:30 p.m. | Support of Excavation System for a Deep Excavation which has a Site Access Problem | Meeok Kim, Ph.D., P.E. | Thornton Tomasetti, USA |
| 2:30 p.m. - 3:00 p.m. | Pile-and-Plate Slope Reinforcing Solutions for Shallow Slides | Matt Caskey, P.E. | Geopier Foundation Company, Inc., USA |
| 3:00 p.m. - 3:30 p.m. | Networking Break and Exhibition | Depot Pavilion |
| 3:30 p.m. - 5:15 p.m. | PLENARY SESSION 7 | SSI Case Histories and Stabilization with Tiebacks |
| 3:30 p.m. - 4:00 p.m. | Slope Stabilization with Deep Foundation Elements: What Controls? | Sebastian Lobo-Guerrero, Ph.D., P.E. | American Geotechnical and Environmental Services Inc., USA |
| 4:00 p.m. - 4:30 p.m. | Stabilization of a Large Landslide impacting Highway 73 in the Missouri River Badlands | Aaron Grosser, P.E., P.Eng, D.GE | Barr Engineering Co., USA |
| 4:30 p.m. - 5:00 p.m. | Adaptive Slope Stabilization for River Remediation | Rakam Tamang, P.E. | Tetra Tech, Inc., USA |
| 5:00 p.m. - 5:15 p.m. | Closing Remarks | Johanna Simon, P.E. | Schnabel Engineering, USA |

*Subject to Change*
ATLAS FOUNDATION COMPANY | BOOTH 17
11730 Brockton Lane North, Osseo, MN 55369, USA • Phone: +1 (763) 428-2261
www.atlasfoundation.com
Corey Reese • corey.reese@atlasfoundation.com
Atlas Foundation Co. has over 50 years of experience in deep foundation solutions of all types. Atlas is a full service deep foundation contractor specializing in pile driving, caissons, earth retention, helical piers, grouted anchors, and micropiles. Atlas has extensive experience in earth retention and slope stability projects including H-pile and timber lagging, steel sheeting, soil nail and shotcrete, soil grout stabilization, secant walls, helical tiebacks and grouted tiebacks.

BENTLEY SYSTEMS | BOOTH 8
685 Stockton Drive, Exton, PA 19341, USA • Phone: +1 (610) 458-2948
www.bentley.com
Julie Zamonski • julie.zamonski@bentley.com
Bentley Systems is a leading global provider of software solutions to engineers, architects, geospatial professionals, constructors, and owner-operators for the design, construction, and operations of infrastructure. Bentley employs more than 3,500 colleagues, generates annual revenues of $700 million in 170 countries, and has invested more than $1 billion in research, development, and acquisitions since 2012.

BERKEL AND COMPANY CONTRACTORS, INC. | BOOTH 28
2649 S 142nd Street, Bonner Springs, KS 66012, USA • Phone: +1 (913) 422-3588
www.berkelandcompany.com
Adam Hurley • ahurley@berkelandcompany.com
Berkel & Company Contractors is a specialty design-build geotechnical contractor offering Deep Foundations, Shoring & Ground Improvement. A full in-house engineering and design services team that are available. Berkel & Company Contractors have been in business since 1959.

BRAUN INTERTEC | BOOTH 2
11001 Hampshire Ave South, Bloomington, MN 55438, USA • Phone: +1 (952) 995-2229
www.braunintertec.com
Ryan Drury • rdrury@braunintertec.com
At Braun Intertec, our science happens because of our people. We’re collaborators with the passion to build innovations that solve your problems. With customization as our standard and safety as our priority, Braun Intertec provides quality solutions to engineering, environmental, design and testing challenges. For over 60 years, we’ve been delivering innovation on scope, on schedule, and on budget.

DEEP FOUNDATIONS INSTITUTE
326 Lafayette Avenue, Hawthorne, NJ 07506, USA • Phone: +1 (973) 423-4030
www.dfi.org
Theresa Engler • staff@dfi.org
Deep Foundations Institute (DFI) is an international association of contractors, engineers, manufacturers, suppliers, academics and owners in the deep foundations industry. Our multidisciplinary membership creates a consensus voice and a common vision for continual improvement in the planning, design and construction of deep foundations and excavations.

DEWIND ONE PASS TRENCHING LLC | BOOTH 23
9150 96th Avenue, Zeeland, MI 49464, USA • Phone: +1 (616) 875-7580
www.dewindonepasstrenching.com
Carroll Busher • cbusher@dewindonepass.com
DeWind One Pass Trenching has developed and patented a new mass horizontal soil stabilization technology. Our One Pass Trenchers can now SOIL MIX HORIZONTALLY and continuously up to 8 feet wide and up to 40 feet deep. We are subcontracting for you all across North America. Stop by to learn more about this and our other services!

*As of 8/6/19
DYWIDAG-SYSTEMS INTERNATIONAL | BOOTH 24
8324 East Highway 287, Alvarado, TX 76009, USA • Phone: +1 (817) 473-6161
www.dsiamerica.com
Brad Hunter • brad.hunter@dsiamerica.com
For a wide variety of requirements of geotechnical applications, DSI offers a complete system of rock and soil anchors, dam tie downs, soil nails, tie rods and micropiles, ductile iron driven piles, and testing and handling equipment used for many of these applications. Whether it is for a permanent or temporary stabilization of slopes, retaining wall, excavation, DSI can provide the appropriate systems and equipment for your project’s geotechnical needs.

ENGINEERING & CONSTRUCTION INNOVATIONS, INC. | BOOTH 11
7002 6th Street North, Oakdale, MN 55128, USA • Phone: +1 (651) 298-9111
www.eciconstructors.com
Sam Umlauf • sumlauf@eciconstructors.com
Engineering & Construction Innovations, Inc. is a full service heavy civil construction and engineering firm that specializes in geotechnical construction, underground construction, water resources infrastructure and dam construction and rehabilitation. The company focuses on difficult and technically challenging projects where its engineering and construction expertise can be well applied. ECI has successfully completed a wide range of projects of varying size and scope for public and private industry clients.

EQUIPMENT CORPORATION OF AMERICA | BOOTH 14
W146N5741 Enterprise Avenue, Menomonee Falls, WI 53051, USA • Phone: +1 (262) 888-0841
www.ecanet.com
John Devine • jdevine@ecanet.com
ECA is a deep foundation industry premier provider of advanced, innovative and reliable drilling, pile driving, hoisting and rigging, slurry cutting, soil mixing and soil stabilization equipment. Over the past 100 years, we have demonstrated our unrivaled product knowledge, and ultra-responsive service and support, by meeting and exceeding our customers’ expectations every day.

FOOTHILLS DRILLING EQUIPMENT, INC. | BOOTH 6
111 Locust Street, Columbus, NC 28722, USA • Phone: +1 (828) 802-1015
www.foothillsequipment.com
Brian Kassel • brian@foothillsequipment.com
Our company is the East Coast distributor of TEI Rock Drills. We also provide sales of DTH Hammers and tooling, manufacturing of metal plates, sales of construction and mining materials, consumables and equipment. We now offer service and maintenance for TEI Rock Drills and DTH Hammers.

GEOBRUGG, NORTH AMERICA | BOOTH 10
22 Centro Algodones, Algodones, NM 87001, USA • Phone: +1 (860) 377-3230
www.geobrugg.com
Kevin Coyle • kevin.coyle@geobrugg.com
Geobrugg: Safety is our nature. With more than 65 years of experience, Geobrugg is recognized internationally as an innovative designer and manufacturer of Geohazard protection systems made of high-tensile steel wire. Our systems protect against natural hazards such as rockfall, landslides, debris flow and avalanches. They ensure safety in mining and tunneling, as well as on motorsport tracks.
GEO-INSTRUMENTS | BOOTH 18
24 Celestial Drive, Narragansett, RI 02882, USA • Phone: +1 (401) 480-0078
www.geo-instruments.com
Kenneth Campbell • kenneth.campbell@geo-instruments.com
GEO-Instruments provides automated systems and services for monitoring the safety and stability of buildings, excavations, bridges, railways, roads, tunnels, dams, embankments, and slopes. We help owners, infrastructure operators, and construction engineers identify and mitigate risk, optimize designs and methods, and document regulatory compliance.

GEOPIER FOUNDATION COMPANY | BOOTH 5
130 Harbour Place Drive, Suite 280, Davidson, NC 28036, USA • Phone: +1 (704) 439-1790
www.geopier.com
Matt Caskey • mcaskey@geopier.com
Geopier Foundation Company® provides an efficient and cost-effective Intermediate Foundation® solution for the support of structures. Specializing in slope stabilization, Geopier’s SRT® system stabilizes new slopes and active slides up to 12 feet deep. With fast and easy installation, our Plate Piles™ allow for emergency response and immediate stabilization without the need for massive earthwork, traffic disruption, or the use of anchors or retaining walls.

GIKEN LTD. | BOOTH 22
60 East 42nd Street, Suite 3030, New York, NY 10165, USA • Phone: +1 (407) 747-5365
www.giken.com
Masashi Nagano • nagano@giken.com
Giken group is the manufacturer of environmentally friendly press-in pile drivers which press sheet piles and pipe piles into ground without generating much noise and vibration. It can effectively deal with hard ground and project with limited access by an attachment or auxiliary system. The Press-in Pile Driving Method has been utilized on more than so many projects in the world, eliminating various problems in urban environment.

HAYWARD BAKER, INC. | BOOTH 19
5115 Excelsior Boulevard, St. Louis City, MN 55416, USA • Phone: +1 (720) 641-3216
www.haywardbaker.com
Robert Schiermeyer • rpschiermeyer@haywardbaker.com
Hayward Baker (haywardbaker.com) is a North American leader in geotechnical solutions and is part of the connected companies of Keller (keller.com), a world leader in geotechnical solutions. With a network of local offices across North America, Hayward Baker is ready to respond with the optimal solution. Solutions include foundation support, settlement control, ground improvement, slope stabilization, underpinning, excavation shoring, earth retention, seismic/liquefaction mitigation, groundwater control, and environmental remediation.

HELIWALLS LLC | BOOTH 26
222 South 15th Street, Suite 1404S, Omaha, NE 68102, USA • Phone: +1 (402) 708-3993
www.heliwalls.com
Brian Beach • bbeach@heliwalls.com
Manufacture and supply Heliwalls patented shoring technology, using our purchase and lease programs nationwide.

*As of 8/6/19
INTERNATIONAL DRILLING EQUIPMENT | BOOTH 29
645 Angus Street, Rural Hall, NC 27045, USA • Phone: +1 (877) 207-6062
www.idedrills.com
Mauricio Castano • mcastano@idedrills.com
International Drilling Equipment is a prominent supplier of Foundation Drilling, Ground Improvement, and Grouting Equipment, plus Tooling. Committed to technical and after-sales support; backed with an extensive parts inventory, and reinforced by experienced and knowledgeable personal, we can ensure the highest quality products and the best possible product support.

INTERNATIONAL SOCIETY FOR MICROPILES | BOOTH 31
Eighty Four, PA 15330, USA • Phone: +1 (724) 942-4220
www.ismicropiles.org
Mary Ellen Bruce Large • ismicropiles@dfi.org
The International Society for Micropiles (ISM) is a consortium of international representatives involved in the design, construction, research/development and instruction/promotion of micropile technology. ISM provides an international forum for debate, advice, problem-solving and support to micropile specialists and non-specialists throughout the world. Members of the Society can actively seek advice and experience from other members within this international group.

ITASCA CONSULTING GROUP, INC.| BOOTH 4
111 3rd Avenue South, Suite 450, Minneapolis, MN 55401, USA • Phone: +1 (612) 371-4711
www.itascacg.com
David DeGagne • ddegagne@itascacg.com
Itasca, a global, employee-owned, engineering consulting and software firm, focusing on geomechanical, hydrogeological, and microseisms projects. Our consultants solve complex problems in mining, civil, and energy engineering. Itasca combines practical engineering and field experience with expert knowledge of advanced numerical simulation and analysis. Itasca’s software (3DEC, FLAC, FLAC3D, KATS, InSite, Gridle, MINEDW, PFC, UDEC) are among the most widely used and respected software of their kind for geomechanical analysis.

PIERESEARCH | BOOTH 25
501 East Main Street, Arlington, TX 76010, USA • Phone: +1 (817) 277-3738
www.pieresearch.com
Stan Agee • stanagee@pieresearch.com
For over 30 years, Piersearch® has manufactured high quality concrete accessories for the construction industry. Piersearch® is the manufacturer of Quick-Lock® Pier Wheels, Pier Boots and our patented Unibar® Centralizers. Our unique one-piece designs are produced with noncorrosive plastic, install in seconds and are proudly made in the U.S.A. Piersearch®, helping build a better foundation for America.

RAMSEY COMPANIES, INC.| BOOTH 9
8297 Brooklyn Boulevard, Minneapolis, MN 55445, USA • Phone: +1 (612) 529-0077
www.ramseyco.com
Quint McDermand • quint.mcdermand@ramseyco.com
Ramsey Companies is a contractor specializing in Earthwork, Demolition and Foundations. We are a leader in Deep Foundations and Specialty Contracting work and customize solutions to fit your project needs. We apply innovative methods to ensure long-term installations with the most cost effective and technically appropriate solutions you can trust from the ground up. Quality, Safety and Performance is our core focus.
REMBCO GEOTECHNICAL CONTRACTORS | BOOTH 30
2614 Clinton Highway, Powell, TN 37849, USA • Phone: +1 (865) 228-0779
www.rembco.com
Giuseppe Marandino • joe.marandino@rembco.com
Rembco is a geotechnical construction company that provides a wide variety of services. We offer ground improvement, earth retention, deep foundation, and specialty grouting services utilizing a number of various techniques. With over 30 years in the industry, Rembco has the experience and equipment necessary to fulfill your project requirements in a safe, quick, and efficient manner.

RICHARD GOETTLE, INC. | BOOTH 21
12071 Hamilton Avenue, Cincinnati, OH 45231, USA • Phone: +1 (513-825-8100
www.goettle.com
Mike Abruzzo • mabruzzo@goettle.com
Richard Goettle, Inc. is a Design-Build, Drilled and Driven Deep Foundations, Earth Retention, Marine, and Ground Improvement Specialty Contractor headquartered in Cincinnati, Ohio. Since 1956 Goettle has provided Design & Construction services not only domestically but abroad as well. Goettle’s ability to provide prompt and efficient service is greatly facilitated by a network of regional offices located in Charlotte, Chicago, Knoxville, New Orleans, and Pittsburgh.

ROSCIENCE | BOOTH 3
54 St. Patrick Street, Toronto, ON M5T 1V1, Canada • Phone: +1 (416) 698-8217
www.rocscience.com
Thamer Yacoub • thamer.yacoub@rocscience.com
Founded in 1996, Rocscience is a world leader in developing 2D and 3D software for civil, mining, and geotechnical engineers. For over 20 years, we’ve built on leading-edge research to create the best geotechnical software available. As engineers ourselves, we know the importance of having reliable and easy-to-use software. That’s why we constantly develop and refine our programs to make expert solutions that work for our customers.

TEI ROCK DRILLS INC. | BOOTH 7
P.O. Box 1309, Montrose, CO 81402, USA • Phone: +1 (970) 249-1515
www.teirockdrills.com
Billy Aller • billy@teirockdrills.com
TEI Rock Drills, Inc., is a world leader in manufacturing drilling attachments and limited access drills. TEI also manufactures their own patented drifters and rotary heads along with dust suppression systems and tooling handlers in Montrose, Colorado.

VEIT & COMPANY, INC. | BOOTH 15
14000 Veit Place, Rogers, MN 55374-9583, USA • Phone: +1 (763) 428-2242
www.veitusa.com
Eric Pederson • epederson@veitusa.com
Veit is among the most respected specialty contracting companies in the nation. With more than 700 employees and an unmatched commitment to safety, Veit is on site and on task at many of the most critical points of a commercial, municipal, or industrial construction projects. Specialty contracting services include earthwork, foundations, demolition underground utilities, hydraulic dredging, industrial cleaning and more.

WILLIAMS FORM ENGINEERING CORP. | BOOTH 1
8165 Graphic Drive, Belmont, MI 49306, USA • Phone: +1 (616) 866-0815
www.williamsform.com
Steve Kamp • skamp@williamsform.com
Williams Form Engineering Corporation has been providing threaded steel bars and accessories for rock anchors, soil anchors, high capacity concrete anchors, micropiles, tie rods, tiebacks, strand anchors, hollow bar anchors, post tensioning systems, and concrete forming hardware systems in the construction industry for over 95 years.
Deep Foundations for Landslides/
Slope Stabilization
Committee Meeting

Departure Point for WiDF
Night at the Ballpark

Exhibit Hall | Depot Pavilion

Exhibitors*:

- DFI
- Williams Form Engineering
- Braun Intertec
- Rocscience
- Itasca Consulting Group, Inc
- Geopier Foundation Company
- Foothills Drilling Equipment Inc.
- TEI Rock Drills Inc.
- Bentley Systems
- Ramsey Companies, Inc.
- Geobrugg, North America
- Engineering & Construction
  Innovations, Inc.
- Equipment Corp. of America
- Veit & Company, Inc.
- Atlas Foundation Company
- Geo-Instruments
- Hayward Baker, Inc.
- Richard Goettle, Inc.
- Giken Ltd.
- DeWind One Pass Trenching
- Dywidag-Systems International
- Piersearch
- Heliwalls LLC
- Berkel and Co. Contractors, Inc.
- International Drilling Equipment
- Rembco Geotechnical
- International Society for
  Micropiles

*As of 8/6/19
INVITATION TO SPEAKERS: CALL FOR ABSTRACTS

ABSTRACT DEADLINE: JANUARY 17, 2020

EVENT DESCRIPTION

Eight committees of Deep Foundations Institute (DFI) are inviting presentations for a two-day technical conference on the effective application of deep foundations, ground improvement, and soil mixing for stabilization of slopes and excavation support. The following DFI Committees are collaborating to present this seminar:

- Anchored Earth Retention
- Drilled Shafts
- Ground Improvement
- Landslides and Slope Stabilization
- Seismic and Lateral Loads
- Slurry Walls
- Soil Mixing
- Subsurface Characterization
- Testing and Evaluation
- Slurry Walls
- Soil Mixing
- Subsurface Characterization
- Testing and Evaluation

The goal of the event is to provide presentations and panel discussions on current technologies, design concepts, research, and case histories for challenging slope and landslide repairs, excavation support and slope stabilization projects using deep foundation and ground improvement methods. Presentations highlighting seismic loading conditions and analysis, and applications with significant groundwater control aspects are encouraged. Complete details of the event as plans progress can be found at www.dfi.org/S3-2020.

PRESENTATION ABSTRACT SUBMISSION

Presentation proposals are solicited on the following topics:

- Design
- Case Studies
- Seismic Loading Conditions and Analyses
- Safe Working Platforms
- Project Access Challenges
- Quality Control and Inspection
- Groundwater Effects and Impacts
- Long-term Maintenance
- Corrosion Protection
- Innovative Applications and Techniques
- Lateral Spreading
- Monitoring and Inspection

For panel discussion proposals, please include in your abstract a brief description of the topic of the panel and a list of proposed panelists.

DEADLINE: Submit a 300-word abstract by Friday, January 17, 2020 at www.dfi.org/S3-2020.

Notification of acceptance and guidelines for developing presentations will be returned to all submitters no later than Friday, March 13, 2020. Authors of accepted proposals will be required to commit to presenting their topic at the conference and will be required to submit a PowerPoint presentation by Friday, June 26, 2020. Though full papers are not required for this conference, accepted authors are invited to develop their abstracts into technical papers for consideration by the editors of the DFI Journal for a future volume or as technical articles for consideration by the executive editor of Deep Foundations magazine.

Please direct questions to:
DEEP FOUNDATIONS INSTITUTE | S3 Organizing Committee | 326 Lafayette Avenue | Hawthorne, NJ 07506 | USA
Tel: (973) 423-4030 | Fax: (973) 423-4031 | Email: events@dfi.org
Welcome Reception

Hotel Room Key

Breakfast/Break

Lanyard

Pen  Student Attendee

www.dfi.org/S3-2019

*As of 8/6/19