SuperPile ’19
piling design & construction conference
Seattle, Washington

May 1-3, 2019
Sheraton Grand Seattle

2019
Conference Program

In Cooperation with:
Academy of Geo-Professionals
ADSC West Coast Chapter
ASCE Seattle Geotechnical Group & Geo-Institute
International Society for Micro piles
Pile Driving Contractors Association
U.S. Federal Highway Administration

Media Partners:
PileBuck International, Inc.
Piling Canada

www.dfi.org/Superpile19
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Conference Chair

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Program Chair

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Jesus Gomez, Ph.D., P.E., D.GE., GEI Consultants

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Angie Gibble, Meetings and Events Specialist

ADSC
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Conference Details

Wi-Fi Access Info
Network Name (SSID): DFISP19 | Passcode: iamsuper

To Access Online Proceedings
The conference proceedings for DFI SuperPile ’19 will be available about one week following the event. A web link and instructions to access the proceedings will be emailed to the email address we have on file for each attendee. Please email events@dfi.org for more information or stop by the Registration Desk.

Registration Hours | 2nd Floor Foyer
Wednesday, May 1 ............................3:00 p.m. – 6:00 p.m.
Thursday, May 2 .................................7:30 a.m. – 5:15 p.m.
Friday, May 3 ......................................7:30 a.m. – 5:15 p.m.

Exhibit Hall Hours | Grand Ballroom AB
Wednesday, May 1 (Set-Up) .............. 4:00 p.m. – 8:00 p.m.
Thursday, May 2 ....................................7:30 a.m. – 7:15 p.m.
Friday, May 3 ................................. 7:30 a.m. – 5:15 p.m.
Friday, May 3 (Break-Down) ...............3:30 p.m. – 5:00 p.m.

Pre-Conference Schedule* | Wednesday, May 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 a.m. - Noon</td>
<td>DFI Educational Trust Board Meeting</td>
</tr>
<tr>
<td>8:30 a.m. - 5:00 p.m.</td>
<td>Impact Testing for Site Characterization Workshop</td>
</tr>
<tr>
<td>Noon - 1:00 p.m.</td>
<td>DFI Educational Trust/Executive Committee Lunch</td>
</tr>
<tr>
<td>1:00 p.m. - 5:00 p.m.</td>
<td>DFI Executive Committee Meeting</td>
</tr>
<tr>
<td>1:30 p.m. - 5:30 p.m.</td>
<td>DFI Technical Committee Meetings</td>
</tr>
<tr>
<td>3:00 p.m. - 6:00 p.m.</td>
<td>Conference Registration</td>
</tr>
<tr>
<td>4:00 p.m. - 8:00 p.m.</td>
<td>Exhibitor Set-Up</td>
</tr>
<tr>
<td>6:30 p.m. - 8:00 p.m.</td>
<td>DFI WiDF Networking Reception</td>
</tr>
</tbody>
</table>

Technical Committee Meeting Schedule*  
All on 2nd Floor

<table>
<thead>
<tr>
<th>Time</th>
<th>Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 p.m. - 2:30 p.m.</td>
<td>Driven Piles</td>
</tr>
<tr>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>Micropiles</td>
</tr>
<tr>
<td>3:00 p.m. - 4:30 p.m.</td>
<td>ACIP and DD Piles</td>
</tr>
<tr>
<td>4:30 p.m. - 5:30 p.m.</td>
<td>Marine Foundations</td>
</tr>
<tr>
<td>5:15 p.m. - 6:15 p.m.</td>
<td>Drilled Shafts</td>
</tr>
</tbody>
</table>

*Subject to Change

Light refreshments will be served.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 a.m. - 5:15 p.m.</td>
<td>Conference Registration</td>
<td>2nd Floor Foyer</td>
</tr>
<tr>
<td>7:30 a.m. - 8:30 a.m.</td>
<td>Networking Breakfast and Exhibition</td>
<td>Grand Ballroom A/B, 2nd Floor (Exhibits are open until 7:15 p.m.)</td>
</tr>
<tr>
<td>7:30 a.m. - 8:30 a.m.</td>
<td>Speakers' Technical Rehearsal</td>
<td>Grand Ballroom D, 2nd Floor</td>
</tr>
<tr>
<td>8:30 a.m. - 5:15 p.m.</td>
<td>Plenary Sessions</td>
<td>Grand Ballroom D, 2nd Floor</td>
</tr>
<tr>
<td>8:30 a.m. - 8:45 a.m.</td>
<td>Conference Welcome and Introductions</td>
<td>Theresa Engler, Executive Director; Deep Foundations Institute (DFI)</td>
</tr>
<tr>
<td>8:45 a.m. - 10:25 a.m.</td>
<td>Opening Plenary Session</td>
<td>Grand Ballroom D, 2nd Floor; Moderator: Dominic Parmantier, P.E.; Condon-Johnson &amp; Associates</td>
</tr>
<tr>
<td>8:45 a.m. - 9:15 a.m.</td>
<td>Dynamic and Rapid Pile Loading Test Program at Terminal 5, Port of Seattle</td>
<td>Brice Eley, P.E.; Hart Crowser, Inc. and Steve Spencer, P.E.; Pacific Pile &amp; Marine</td>
</tr>
<tr>
<td>9:15 a.m. - 9:45 a.m.</td>
<td>Concrete Filled Steel Tubes and their Connections for Efficient Deep Foundations in Regions of Moderate and High Seismicity</td>
<td>Dawn Lehman, Ph.D.; University of Washington and Amy Leland; Washington State Department of Transportation</td>
</tr>
<tr>
<td>9:45 a.m. - 10:15 a.m.</td>
<td>Seismic Design of Pile-Supported Port Structures: Geotechnical Perspectives</td>
<td>Stephen Dickenson, Ph.D., P.E., D. P.E.; New Albion Geotechnical, Inc.</td>
</tr>
<tr>
<td>10:15 a.m. - 10:25 a.m.</td>
<td>DFI Women in Deep Foundations Presentation, sponsored by Golder Associates</td>
<td>Presenter: Reda Mikhail, P.E.</td>
</tr>
<tr>
<td>10:25 a.m. - 10:45 a.m.</td>
<td>Networking Break and Exhibition</td>
<td>Grand Ballroom A/B, 2nd Floor</td>
</tr>
<tr>
<td>10:45 a.m. - 12:30 p.m.</td>
<td>Plenary Session 2 – Webinar</td>
<td>Grand Ballroom D, 2nd Floor; Moderator: Matthew Janes, P.Eng., M.E.Sc., MBA; President DFI; Isherwood Associates</td>
</tr>
<tr>
<td>10:45 a.m. - 11:30 a.m.</td>
<td>Introduction of Osterberg Memorial Lecture</td>
<td>William Knight, P.E.; Loadtest</td>
</tr>
<tr>
<td>11:30 a.m. - 12:30 p.m.</td>
<td>Industry-Owner Collaborative Forum</td>
<td>Samuel Parkowsky, Ph.D.; Department of Civil and Environmental Engineering, University of Massachusetts Lowell</td>
</tr>
<tr>
<td>12:30 p.m. - 1:30 p.m.</td>
<td>Networking Luncheon</td>
<td>Grand Ballroom C, 2nd Floor</td>
</tr>
<tr>
<td>1:30 p.m. - 2:20 p.m.</td>
<td>Ben C. Gerwick Award for Innovation in the Design and Construction of Marine Foundations</td>
<td>Grand Ballroom D, 2nd Floor; Roderick Ellman, P.E.; Chair, DFI Marine Foundations Committee; Mueser Rutledge Consulting Engineers</td>
</tr>
<tr>
<td>2:20 p.m. - 3:00 p.m.</td>
<td>Plenary Session 3</td>
<td>Grand Ballroom D, 2nd Floor; Moderator: Roderick Ellman, P.E.; Mueser Rutledge Consulting Engineers</td>
</tr>
<tr>
<td>2:20 p.m. - 2:40 p.m.</td>
<td>Pre-Bid Load Testing for the Mobile River Bridge and Bayway Public Private Partnership (P3) Project</td>
<td>Sam Sternberg III, P.E., D.GE and W. Robert Thompson, III, P.E., D.GE; Dan Brown and Associates, PC</td>
</tr>
<tr>
<td>2:40 p.m. - 3:00 p.m.</td>
<td>Seismic Isolation Design of the SR 520 West Approach Bridge</td>
<td>Jeremy Butkovitch, P.E.; Shannon &amp; Wilson, Inc.</td>
</tr>
<tr>
<td>3:00 p.m. - 3:30 p.m.</td>
<td>Networking Break and Exhibition</td>
<td>Grand Ballroom A/B, 2nd Floor</td>
</tr>
<tr>
<td>3:30 p.m. - 5:15 p.m.</td>
<td>Plenary Session 4</td>
<td>Grand Ballroom D, 2nd Floor; Moderator: Armin Stuedlein, Ph.D., P.E.; Oregon State University</td>
</tr>
<tr>
<td>3:30 p.m. - 4:00 p.m.</td>
<td>Prediction, Testing and Analysis of a 50m Long Pile in Soft Marine Clay</td>
<td>Dr. Bengt H. Fellenius, Consulting Engineer and Fredrik Edvardsson, Civilingenör; PEAB</td>
</tr>
<tr>
<td>4:00 p.m. - 4:20 p.m.</td>
<td>Longitudinal Cracking in Concrete Cylinder Piles</td>
<td>Dan Brown, Ph.D., P.E. and Benjamin Turner, Ph.D., P.E.; Dan Brown and Associates, PC</td>
</tr>
<tr>
<td>4:20 p.m. - 4:40 p.m.</td>
<td>Vibration Monitoring During Large Diameter Open End Pipe Pile Installation - SR 99 Holgate to King Project</td>
<td>Monique Anderson, P.E.; Shannon &amp; Wilson, Inc.</td>
</tr>
<tr>
<td>5:00 p.m. - 5:15 p.m.</td>
<td>Closing Remarks</td>
<td>Dominic Parmantier, P.E.; Condon-Johnson &amp; Associates and Armin Stuedlein, Ph.D., P.E.; Oregon State University</td>
</tr>
<tr>
<td>5:15 p.m. - 7:15 p.m.</td>
<td>Conference Welcome Reception and Exhibition</td>
<td>Grand Ballroom A/B, 2nd Floor</td>
</tr>
</tbody>
</table>

*Subject to Change
**Conference Schedule**

**Day Two | Parallel Sessions | Friday, May 3**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 a.m.</td>
<td>Parallel Session A</td>
<td>Grand Ballroom D, 2nd Floor</td>
<td>Welcome and Overview by Brian Collins, P.E.</td>
</tr>
<tr>
<td>9:00 a.m.</td>
<td>Session A1: Driven Piles</td>
<td></td>
<td>Kathrym Peteck, Ph.D., P.E.</td>
</tr>
<tr>
<td>12:00 p.m.</td>
<td>Session A2: Seismic and Lateral Loading of Foundations</td>
<td></td>
<td>Kavabena Ofori-Awah, Ph.D., D.GE</td>
</tr>
<tr>
<td>3:30 p.m.</td>
<td>Session A3: Special Topics</td>
<td></td>
<td>Oliver Hoopes, P.E.</td>
</tr>
<tr>
<td>7:30 a.m.</td>
<td>Welcome and Overview</td>
<td></td>
<td>Caltrans-East Roseville Viaduct Widening Project</td>
</tr>
<tr>
<td>9:00 a.m.</td>
<td>Benefits of Using Driven Piles for a Major Commuter Rail Bridge</td>
<td></td>
<td>Deep Water Shafts: A Unique Approach</td>
</tr>
<tr>
<td>9:30 a.m.</td>
<td>Eisenhower Bridge North Abutment Settlement A Case History of Pile Downdrag</td>
<td></td>
<td>Innovative Bi-Directional Testing of Drilled Shafts Using Super-Cells:</td>
</tr>
<tr>
<td>10:00 a.m.</td>
<td>Sheet Pile Load Tests for Storm Surge Wall Design</td>
<td></td>
<td>Estimation of Shear Demands on Rock-Socketed Drilled Shafts Subjected to Lateral Loading</td>
</tr>
<tr>
<td>1:00 p.m.</td>
<td>Finite Element Models of Soil-Pile Interaction Using Embedded Interaction Surface Elements</td>
<td></td>
<td>Micropiles for Electric Distribution Structures in Steep, Rugged Terrain</td>
</tr>
<tr>
<td>2:30 p.m.</td>
<td>Seismic Analysis and Ground Improvement Design for the PCT Marine Terminal at the Port of Alaska</td>
<td></td>
<td>Micropile Underpinning through Acidic Purifier Refuse in a Karstic Environment</td>
</tr>
<tr>
<td>3:30 p.m.</td>
<td>Freezeback and Curing Temperature Monitoring of Grouted Piles in Permafrost</td>
<td></td>
<td>1g Shake Table Model Tests on Dynamic Response of Helical Piles in Dry Sands</td>
</tr>
<tr>
<td>4:00 p.m.</td>
<td>Exploring Alternatives for Increasingly Larger Wind Turbine Foundations</td>
<td></td>
<td>High Capacity Grouted Helical Piles: A Series of Installation and Load Test Programs</td>
</tr>
<tr>
<td>5:30 p.m.</td>
<td>The Application of Wireless Data Transmission and Monitoring Equipment in Pile Monitoring Practice</td>
<td></td>
<td>Nondestructive Testing and Augmentation for Energized Transmission Tower Foundations</td>
</tr>
</tbody>
</table>

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The Academy of Geo-Professionals (AGP) was founded in October 2008 by practicing geo-professionals and was created primarily to offer a voluntary, post-license credential (D.GE) that provide professional engineers an opportunity to gain further recognition in the broad field of geotechnical engineering.

ADSC is a construction trade association dedicated to the deep foundations industry. Our focus is on drilled shaft, anchored earth retention, and micropile technologies. We are represented by specialty subcontractors, civil and geotechnical engineers, and equipment manufacturers and suppliers from around the world.

We are the recognized leader in the Western Region of North America in the promotion, design, and construction of specialty foundation drilling and geotechnical systems. We advance the interests and professionalism of our industry through the endorsement of quality work practices, and the education and training of our current and future members, associates, and customers.

The Seattle chapter is committed to promoting the professional development of the Puget sound area geotechnical community. Their commitment to the advancement of civil engineers is demonstrated through its leadership, sense of community and dedication to the profession. From organizing professional development opportunities to recognizing member achievements, the chapter has a long history of fostering members’ professional growth while celebrating their successes. The Section also promotes education through providing scholarship opportunities.

Almita Piling is a North American leader in helical pile foundations. Almita provides an integrated foundation solution starting with the engineering design, fabrication, and installation of helical piles. Almita has successfully completed projects across North America for various types of structures such as: substations, transmission line towers, solar racking.

Since 2000, AMERICAN SpiralWeld Pipe Company, LLC (ASWP), a subsidiary of AMERICAN Cast Iron Pipe Company, has been manufacturing up thru 144” spiral-welded carbon steel pipe per ASTM A252, ASTM A139, and AWWA C200 standards. ASWP has manufacturing facilities in South Carolina and Michigan. Typical pipe lengths are 50’ for transportation by truck, however longer lengths are available. Along with truck and rail transportation options, a variety of specialty fabrications and coatings are available at each plant location.
American Piledriving Equipment, and its wholly owned subsidiary J&M Foundation Equipment, manufacture and sell deep foundation construction equipment direct to the contractor: Vibratory hammers, diesel and hydraulic impact hammers, rotary drills & augers, HD Drivers, wick drain installation equipment, drill rigs, pile rigs and leader systems. APE services its equipment throughout the world, counting service managers and offices in Asia, Europe, South America, The Caribbean, Canada, Mexico and the U.S.

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Mike Muchard • mmuchard@testpile.com
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www.atlastube.com
Marilyn Poindexter • marilyn.poindexter@atlastube.com
Atlas Pipe Piles manufactures a range of ERW, straight seam steel pipe piling products to support geotechnical and deep foundation projects around the world. Sizes ranges in diameter from 2.375 through 20.000 NPS, with lengths of 20’ to 125’. All products are fully tested with full traceability, backed up with MTRs and coil certificates from our steel suppliers.

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Will Bryan • william.bryan@bauer-equipment.com
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BERKEL is a full-service design-build geotechnical contractor providing Auger Pressure Grouted (APG) and Drilled Displacement (APGD) piles, ground improvement, rigid inclusions, earth retaining structures and underpinning, micropiles, drilled shafts, driven piles and helical piles. Services provide throughout the U.S. and the Caribbean through 7 regional offices across the country.

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Louis Fritz • lfritz@berminghammer.com
Berminghammer Foundation Equipment is a leading manufacturer of Vertical Travel leads, diesel pile driving hammers, reverse-circulation-drills & swivels, and a wide variety custom foundation equipment. Berminghammer’s unique blend of manufacturing and contracting operations allows for the ability to constantly experiment with new equipment and procedures to improve products and construction techniques. Berminghammer is highly regarded as an industry leader as both a foundation contractor and manufacturer of foundation installation equipment.
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Andrew Pow • andrew.pow@bos-solutions.com  
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www.conetec.com  
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*As of 4/12/2019*
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www.kellerfoundations.com
Caitlan Reynolds • cmreynolds@kellerfoundations.com
Cyntech and Hayward Baker are part of the connected companies of Keller. Cyntech has built a solid reputation globally as a leading manufacturer of high-quality helical pile solutions. Hayward Baker is a North American leader in geotechnical solutions. By engaging in a partnership with our clients from the earliest stage, we apply our engineering excellence to assure that no question goes unanswered, no problem goes unsolved, no job goes unfinished.

CZM FOUNDATION EQUIPMENT | Booth 303
145 East Industrial Boulevard, Pembroke, GA 31321, USA • Phone: +1 (912) 200-7654
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Marcos Clo • marcos.clo@czm-us.com
CZM offers a comprehensive line of equipment engineered in the USA for a variety of drilling applications. Located in Savannah, GA, CZM is recognized for superior after-sales service and innovative design.

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DBM Contractors, Inc. is an industry leader in heavy civil and specialty geotechnical construction. Since 1968 we have earned a reputation for performing difficult and diverse design/build specialty geotechnical projects for highway, as well as commercial and industrial projects throughout the western USA, including Alaska and Hawaii. Our diversity allows us to work on projects of every imaginable size and scope for both public agencies and private enterprise.

DEEP FOUNDATIONS INSTITUTE | Booth 701
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.

DRILLERS’ CHOICE, INC. | Booth 604
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Tim Cellar • timc@drillerschoiceinc.com
Drillers’ Choice, Inc. (DCI) is a leader in the sales, service and rental of foundation drilling equipment. Representing Bay Shore Systems and the LoDril, MDT piling and micropile drills, Jeffrey Machine, Center Rock, Scandinavian Pile Driving. DCI’s national rental fleet includes equipment from all of our manufacturers as well as vibratory pile hammers, diesel pile hammers, and lead systems. DCI also offers full in-house design, manufacturing, and repair services.

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WILLIAMS FORM ENGINEERING CORP. | Booth 314
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www.williamsform.com
Ryan Williams •ryan@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.
SuperPile '19 Conference Floorplan

Sheraton Grand Seattle | 2nd Floor

EXHIBIT HALL | GRAND BALLROOM AB
Breakfasts, Breaks and Conference Networking Reception

= NETWORKING REFRESHMENTS

GRAND BALLROOM C
Networking Luncheon

GRAND BALLROOM D
May 2: Plenary Session
and
May 3: Parallel Session A

REGISTRATION

TO COMMITTEE MEETINGS

TO SESSIONS

Elevators

*As of 4/12/2019
DEEP FOUNDATIONS INSTITUTE

44th ANNUAL CONFERENCE

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www.dfi.org/Annual2019
The International Association of Foundation Drilling in partnership with Piling Design & Construction Conference
Saint Louis, Missouri
June 3-5, 2020 | Hilton St. Louis at the Ballpark

This three-day event will include presentations* on the latest developments in:

- Augered Cast-in-Place and Drilled Displacement Piles
- Drilled Shafts
- Driven Piles
- Helical Piles and Tiebacks
- Marine Foundations
- Micropiles
- Seismic and Lateral Loads
- Testing and Evaluation
- Working Platforms
- Innovations and advancements in pile design and installation
- Designing and constructing safely and effectively in urban environments
- Deep foundations in expansive and frost-susceptible soils
- Foundations in karst and erodible sedimentary bedrock
- Corrosion of buried structures
- Instrumentation, load testing, monitoring
- Designing for resiliency under extreme or unexpected loading conditions (inclement weather, flooding, scour, seismic, liquefaction, lateral spreading)
- Alternative procurement methods and early contractor involvement
- Re-use of foundations and other sustainable design approaches
- Foundation optimization through risk management (geotechnical, contractual, communication risks)

Conference Highlights*

- DFI Technical Committee Meetings
- WiDF Networking Reception
- Exhibit Hall with over 75 Manufacturers, Suppliers and Service Providers
- Osterberg Memorial Lecture
- Presentation of the Ben C. Gerwick Award for Innovation in the Design and Construction of Marine Foundations

*Program subject to change.

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Online Proceedings
Pile Dynamics, Inc. / GRL Engineers

Networking Luncheon - Day 1
ECA
PILECO, Inc.

Hotel Room Key
Matrix Construction Products

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