

Conference Schedule* | Pre-Conference | Wednesday, May 1

Day At-a-Glance

8:00 a.m. - Noon	DFI Educational Trust Board Meeting Aspen, 2 nd Floor
8:30 a.m. - 5:30 p.m.	DFI Technical Committee Meetings & Workshop 2 nd Floor Meeting Rooms. See schedule at right.
Noon - 1:00 p.m.	DFI Education Trust/Executive Committee Lunch Aspen, 2 nd Floor
1:00 p.m. - 5:00 p.m.	DFI Executive Committee Meeting Aspen, 2 nd Floor
3:00 p.m. - 6:00 p.m.	Conference Registration 2 nd Floor Foyer
4:00 p.m. - 8:00 p.m.	Exhibitor Set-Up Grand Ballroom A/B, 2 nd Floor
6:30 p.m. - 8:00 p.m.	DFI Women in Deep Foundations (WiDF) Networking Reception Space Needle (Off-Site, Ticketed Event)

Technical Committee Meeting Schedule*

8:30 a.m. - 5:00 p.m. (Workshop) Impact Testing for Site Characterization Redwood AB <i>(Lunch Break from 12:30 p.m. - 1:30 p.m. and Break from 3:00 p.m. - 3:45 p.m.)</i>	3:00 p.m. - 4:00 p.m. Micropiles Cedar AB
1:30 p.m. - 2:30 p.m. Driven Piles Willow AB Electric Power System Foundations Cedar AB Working Platforms Working Group Juniper	3:00 p.m. - 4:30 p.m. ACIP and DD Piles Willow AB Helical Piles and Tiebacks Juniper
	4:30 p.m. - 5:30 p.m. Marine Foundations Cedar AB

**Light refreshments will be served.*

Conference Schedule* | Day One | Thursday, May 2

7:30 a.m. - 5:15 p.m.	Conference Registration 2 nd Floor Foyer
7:30 a.m. - 8:30 a.m.	Networking Breakfast and Exhibition Grand Ballroom A/B, 2 nd Floor <i>(Exhibits are open until 7:15 p.m.)</i>
7:30 a.m. - 8:30 a.m.	Speakers' Preparation Grand Ballroom D, 2 nd Floor
8:45 a.m. - 5:15 p.m.	Plenary Sessions Grand Ballroom D, 2 nd Floor
8:30 a.m. - 8:45 a.m.	Conference Welcome and Introductions <i>Theresa Engler, Executive Director</i> <i>Deep Foundations Institute</i>
8:45 a.m. - 10:15 a.m.	Opening Plenary Session Grand Ballroom D, 2 nd Floor <i>Moderator: Dominic Parmantier, P.E.</i> <i>Condon-Johnson & Associates</i>
8:45 a.m. - 9:15 a.m.	Dynamic and Rapid Pile Loading Test Program at Terminal 5, Port of Seattle <i>Brice Exley, P.E.</i> <i>Hart Crowser, Inc.</i> <i>and Steve Spencer, P.E.</i> <i>Pacific Pile & Marine</i>
9:15 a.m. - 9:45 a.m.	Concrete Filled Steel Tubes and Their Connections for Efficient Deep Foundations in Regions of Moderate and High Seismicity <i>Dawn Lehman, Ph.D.</i> <i>University of Washington and Amy Leland</i> <i>Washington Department of Transportation</i>
9:45 a.m. - 10:15 a.m.	Seismic Design of Pile-Supported Port Structures: Geotechnical Perspectives <i>Stephen Dickenson, Ph.D., P.E., D. PE</i> <i>New Albion Geotechnical, Inc.</i>
10:15 a.m. - 10:25 a.m.	Golder – Women In Deep Foundations Support
10:25 a.m. - 10:45 a.m.	Networking Break and Exhibition Grand Ballroom A/B, 2 nd Floor
10:45 a.m. - 12:30 p.m.	Plenary Session 2 – Webinar
10:45 a.m. - 11:30 a.m.	Introduction of Osterberg Memorial Lecture Osterberg Memorial Lecture: Capacity Testing of Deep Foundations: Successes and Pitfalls <i>Samuel Paikowsky, Ph.D.</i> <i>Department of Civil and Environmental Engineering, University of Massachusetts Lowell</i>
11:30 a.m. - 12:30 p.m.	Industry Owner Collaborative Forum
12:30 p.m. - 1:30 p.m.	Networking Luncheon Grand Ballroom C, 2 nd Floor
1:30 p.m. - 2:20 p.m.	Ben C. Gerwick Inspired Innovations Grand Ballroom C, 2 nd Floor Overview of the DFI Educational Trust <i>Roderick Ellman, P.E.</i> <i>Mueser Rutledge Consulting Engineers</i> <i>Chair, Marine Foundations Committee</i> Introduction of Award and Recipient <i>Jack Gerwick, P.E.</i> <i>COWI North America, Inc.</i> Ben C. Gerwick's Inspired Innovation Presentation
2:20 p.m. - 3:00 p.m.	Plenary Session 3 Grand Ballroom D, 2 nd Floor <i>Moderator: Roderick Ellman, P.E.</i> <i>Mueser Rutledge Consulting Engineers</i>
2:20 p.m. - 2:40 p.m.	Pre-Bid Load Testing for the Mobile River Bridge and Bayway Public Private Partnership (P3) Project <i>Sam Sternberg III, P.E., D.GE and W. Robert Thompson, III, P.E., D.GE</i> <i>Dan Brown and Associates, PC</i>
2:40 p.m. - 3:00 p.m.	Seismic Isolation Design of the SR 520 West Approach Bridge <i>Jeremy Butkovich, P.E.</i> <i>Shannon & Wilson, Inc.</i>
3:00 p.m. - 3:30 p.m.	Networking Break and Exhibition Grand Ballroom A/B, 2 nd Floor
3:30 p.m. - 5:15 p.m.	Plenary Session 4 Grand Ballroom D, 2 nd Floor <i>Moderator: Armin Stuedlein, Ph.D., P.E.</i> <i>Oregon State University</i>
3:30 p.m. - 4:00 p.m.	Prediction, Testing and Analysis of a 50m Long Pile in Soft Marine Clay <i>Dr. Bengt H. Fellenius, Consulting Engineer and Fredrik Edvardsson, Civilingenr</i> <i>PEAB</i>
4:00 p.m. - 4:20 p.m.	Longitudinal Cracking in Concrete Cylinder Piles <i>Dan Brown, Ph.D., P.E. and Benjamin Turner, Ph.D., P.E.</i> <i>Dan Brown and Associates, PC</i>
4:20 p.m. - 4:40 p.m.	Vibration Monitoring During Large Diameter Open End Pipe Pile Installation - SR 99 Holgate to King Project <i>Monique Anderson, P.E.</i> <i>Shannon & Wilson, Inc.</i>
4:40 p.m. - 5:00 p.m.	A Tale of Two Crossings – The Design and Construction of Marine Transmission Line Replacement Tower Foundations <i>Morgan McArthur, P.E.</i> <i>GeoEngineers, Inc.</i>
5:00 p.m. - 5:15 p.m.	Closing Remarks <i>Dominic Parmantier, P.E.</i> <i>Condon-Johnson & Associates and Armin Stuedlein, Ph.D., P.E.</i> <i>Oregon State University</i>
5:15 p.m. - 7:15 p.m.	Conference Welcome Reception and Exhibition Grand Ballroom A/B, 2 nd Floor

**Subject to Change*

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

7:30 a.m. - 5:15 p.m.
7:30 a.m. - 8:30 a.m.
7:30 a.m. - 8:20 a.m.

Conference Registration | 2nd Floor Foyer
Networking Breakfast and Exhibition | Grand Ballroom A/B, 2nd Floor (Exhibits are open until 3:30 p.m.)
Speakers' Preparation | Meet at your respective podiums

8:20 a.m. - 10:30 a.m.
8:20 a.m. - 8:30 a.m.
8:30 a.m. - 10:30 a.m.

Parallel Session A | Grand Ballroom D, 2nd Floor

Welcome and Overview
Session A1: Driven Piles
Moderators: Pollyanna Cunningham | ICE® - International Construction Equipment, Inc. and Sixto Fernandez, P.E. | GEI Consultants, Inc.
Yellowstone Pelican Creek Bridge Static Pile Load Test
Kathryn Petek, Ph.D., P.E. | Shannon & Wilson, Inc. and Brian Collins, P.E. | Western Federal Lands Highway Division

8:30 a.m. - 9:00 a.m.

Comparison of Theoretical vs. PDA Measured Axial Resistance for Jetted and Driven 36 inch Square Prestressed Concrete Piles
Beth Howey and Mike Batten, P.E. | HDR Engineering, Inc.

9:00 a.m. - 9:30 a.m.

Benefits of Using Driven Piles for a Major Commuter Rail Bridge
Hisham Saredidine, P.E. | Shannon & Wilson, Inc.

9:30 a.m. - 9:50 a.m.

Eisenhower Bridge North Abutment Settlement A Case History of Pile Downdrag | Steve Olson, P.E. | HDR Engineering, Inc.

9:50 a.m. - 10:10 a.m.

Sheet Pile Load Tests for Storm Surge Wall Design
Cheng Lin, Ph.D. | University of Victoria, Canada and Guoming Lin, Ph.D., P.E. | Terracon Consultants, Inc.

10:10 a.m. - 10:30 a.m.

Networking Break and Exhibition | Grand Ballroom A/B, 2nd Floor

10:30 a.m. - 11:00 a.m.

Session A2: Seismic and Lateral Loading of Foundations
Moderators: Kwabena Ofori-Awuah, P.E., D. GE, ENV SP | KCI Technologies, Inc. and Arash Khosravifar, Ph.D., P.E. | Portland State University

11:00 a.m. - 11:30 a.m.

Seismic and Lateral Loads Soil-Structure Interaction for Deep Foundation Design – An Overview
Kwabena Ofori-Awuah, P.E., D. GE, ENV SP | KCI Technologies, Inc.

11:30 a.m. - 11:50 a.m.

Design Guidelines for Pile Foundations Subjected to Liquefaction-Induced Lateral Spreading | Arash Khosravifar, Ph.D., P.E. | Portland State University

11:50 a.m. - 12:10 p.m.

Finite Element Models of Soil-Pile interaction Using Embedded Interaction Surface Elements | Alborz Ghofrani, Ph.D. and Pedro Arduino, Ph.D. | University of Washington

12:10 p.m. - 12:30 p.m.

Seismic Analysis and Ground Improvement Design for the PCT Marine Terminal at the Port of Alaska | Samuel Christie and Gurpreet Bala, Ph.D., P. Eng | COWI North America

12:30 p.m. - 1:30 p.m.

Networking Luncheon | Grand Ballroom C, 2nd Floor

1:30 p.m. - 3:00 p.m.

Session A3: Special Topics
Moderator: Armin Stuedlein, Ph.D., P.E. | Oregon State University
Design Challenges – Temporary Work Platforms/Trestles
Rasim Tumer, P.E. and Mark Champagne, P.E. | GZA GeoEnvironmental, Inc.

1:30 p.m. - 2:00 p.m.

Freezeback and Curing Temperature Monitoring of Grouted Piles in Permafrost | Oliver Hoopes, P.E. | Shannon & Wilson, Inc.

2:00 p.m. - 2:20 p.m.

Exploring Alternatives for Increasingly Larger Wind Turbine Foundations | Benjamin Stroyer and David Frink | IDEAL Group

2:20 p.m. - 2:40 p.m.

The Application of Wireless Data Transmission and Monitoring Equipment in Pile Monitoring Practice | Marcel Bielefeld | Allnamics Pile Testing Experts and David Tara | Thurber Engineering

2:40 p.m. - 3:00 p.m.

Parallel Session B | Willow, 2nd Floor

Welcome and Overview
Session B1: Drilled Shafts
Moderator: Paul Axtell, P.E., D.GE | Dan Brown and Associates, PC
Installation of 3.3m diameter by 250 ft deep CIDHs in Soft Clay Using Rotator/Oscillator on Trestle | Pirooz Barar, S.E., M. ASCE and Babk Mamaqani, Ph.D., P.E. | PB&A, Inc.

Caltrans - East Roseville Viaduct Widening Project
Chuck Danache and Rick Walsh, P.E., G.E. | Hayward Baker, Inc.

Deep Water Shafts: A Unique Approach
Kevin Buch, P.E. | Walsh Construction Co.

Innovative Bi-Directional Testing of Drilled Shafts using Super-Cells: Hong Kong-Zhuhai-Macao Bridge | Antonio Marinucci, Ph.D., MBA, P.E. | V2C Strategists LLC and Robin Mao | Ougan Group

Estimation of Shear Demands on Rock-Socketed Drilled Shafts Subjected to Lateral Loading | Long Chen, Ph.D. and Pedro Arduino, Ph.D. | University of Washington

11:00 a.m. - 12:30 p.m.

Session B2: Augered Cast-in-Place Piles
Moderators: John Huff | Goettle and Steve Davidow, P.E., S.E., P.Eng | Quanta Subsurface

11:00 a.m. - 11:30 a.m.

Achieving Partial Pile Fixity – A Discussion on Design and Modeling of Foundation Systems Subject to Complex Loading
Christophe Locussol, P.E. and Giovanni Bonita, P.E., P.G., Ph.D. | GEI Consultants, Inc.

11:30 a.m. - 11:50 a.m.

Lateral Load Capacity and p-y Curves of Augercast Piles in Estuarine Deposits | Sixto Fernandez, P.E. | GEI Consultants, Inc.

11:50 a.m. - 12:10 p.m.

Micropiles for Electric Distribution Structures in Steep, Rugged Terrain | JT McGinnis, P.E., P. Eng | Quanta Subsurface

12:10 p.m. - 12:30 p.m.

Micropile Underpinning Through Acidic Purifier Refuse in a Karstic Environment | Hannah Iezzoni, P.E. and Jesus Gomez, P.E., D.GE, Ph.D. | GEI Consultants, Inc.

12:30 p.m. - 1:30 p.m.

Networking Luncheon | Grand Ballroom C, 2nd Floor

1:30 p.m. - 3:00 p.m.

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2:40 p.m. - 3:00 p.m.

B3: Helical Piles and Tiebacks
Moderator: Howard Perko, Ph.D., P.E. | Magnum Piering, Inc.
Design Recommendations for Helical Pile Anchorages subjected to Cyclic Load Reversals | Serhan Guner, Ph.D., P.Eng and Sundar Chilluwal, MS Candidate | University of Toledo, Ohio

1g Shake Table Model Tests on Dynamic Response of Helical Piles in Dry Sands | Ramin Motamed, Ph.D., P.E. and Milad Jahed Orang | University of Nevada, Reno

High Capacity Grouted Helical Piles: A Series of Installation and Load Test Programs | Scott Slaughter, P.E. | APTIM; Howard Perko, Ph.D., P.E. | Magnum GeoSolutions; and Travis Parker | Cajun Industries

Nondestructive Testing and Augmentation for Energized Transmission Tower Foundations | Rakesh Khan, P.E., CWI and Ladson Brearley, P.E. | FDH Infrastructure Services

3:00 p.m. - 3:30 p.m.: Networking Break and Exhibition | Grand Ballroom A/B, 2nd Floor

3:30 p.m. - 5:00 p.m.: Exhibitor Break-Down | Grand Ballroom A/B, 2nd Floor

3:30 p.m. - 5:15 p.m.: All Attendees Reconvene in Grand Ballroom D for Closing Plenary

3:30 p.m. - 5:15 p.m.

Closing Plenary | Grand Ballroom D, 2nd Floor | Moderator: Gerald Verbeek, MSc | Allnamics Pile Testing Experts BV

3:30 p.m. - 5:00 p.m.

Panel Discussion: DLT vs RLT + Integrity Testing

*Subject to Change

5:00 p.m. - 5:15 p.m.

Closing Remarks | Dominic Parmantier, P.E. | Condon-Johnson & Associates and Armin Stuedlein, Ph.D., P.E. | Oregon State University