

DFI44 >> Future >> Forward
DFI Annual Conference Technical Program*

Wednesday, October 16, 2019			
Time	Session	Function	Presenter
6:15 AM-8:00 AM		DFI Educational Trust 5k Run/Walk	
7:30 AM-7:00 PM		Conference Registration	
7:30 AM-8:30 AM		Networking Breakfast	
7:30 AM-8:30 AM		Moderator & Speaker Technical Rehearsal	
8:30 AM-8:45 AM	Opening Plenary History	Conference Opening and Welcome	Theresa Engler, Executive Director Deep Foundations Institute and Dhooli Raj, P.E. , Conference Chair Collins Engineers, Inc. USA
8:45 AM-9:15 AM		Opening Keynote	Geoffrey Baer, Emmy-Winning Public Television Writer, Producer and Host
9:15 AM-10:30 AM		The Chicago Legacy Moderators Ray Franz, P.E., D.GE and Dhooli Raj, P.E.	Richard J. Finno, P.E., Ph.D., DGE, Northwestern University Tony A. Kiefer, P.E., Terracon Steven D. Scherer, Malcolm Drilling, Co., Inc. Robert Schock, Case Foundation Company William Walton, P.E., S.E., GEI Consultants, Inc. Michael Wysocky, Ph.D., P.E., Thatcher Foundations, Inc.
10:30 AM-11:00 AM		Networking Break & Exhibition	
11:00 AM-11:30 AM	Opening Plenary Future	>Future>Forward> Mentee / Mentor: Are You Both? Keynote Presentation with Moderator Cassandra J. Rutherford, Ph.D., P.E.	Rick Deschamps, P.E., Ph.D. Nicholson Construction Company USA
11:30 AM-12:30 PM		>Future>Forward>DFI and Technology Panel Presentation by DFI Project Information Management Systems Committee with Moderator: Gianfranco DiCicco, DFI Trustee	Massimo Mucci, DFI Committee Chair, Bencor Global, Inc. Jamey Rosen, P.Geo., Geosyntec Consultants, Inc. Vanessa Bateman, P.G., P.E., USACE Mark Peterson, P.E., Golder Associates
12:30 PM-1:30 PM		Welcome Luncheon	
1:30 PM-1:45 PM	Session 1A Crawl Walk Run: Improving Future Practice	Excavation-Induced Movement of Adjacent Foundations	Mark Adamiak, Haley & Aldrich USA
1:45 PM-2:00 PM		Design and Construction Benefits of Performing a Bi-directional Test on a Drilled Shaft in Sand, Gravel, and Cobble Deposits	Van Komurka, P.E., D.GE, F.ASCE, GRL Engineers, Inc. USA
2:00 PM-2:15 PM		New School Techniques for Columbia Manhattanville's Subsurface Challenges	Jeffrey Di Stasi, Moretrench, A Hayward Baker Company USA
2:15 PM-2:30 PM		Design and Construction of Underground Basin using Composite Slurry Wall 500 feet away from the Pacific Ocean	Meeok Kim, Ph.D., P.E., Thornton Tomasetti USA
2:30 PM-2:45 PM		Permanent Earth Retention for Deep Excavation installed within Minimal Right of Way Limits	Christopher Ramsey, P.E., Wood Environment & Infrastructure Solutions, Inc. USA
2:45 PM-3:00 PM		Levee Rehabilitation, Lower Wood River Phase II – East Alton IL - Deep Cutoff Wall	Wesley Schmutzler, TREVIICOS USA
3:00 PM-3:30 PM		Networking Break & Exhibition	
1:30 PM-1:45 PM	Session 1B Pile Foundations I	Dynamic and Static Load Testing: A Cost Savings Approach	Brandon Phetteplace, GRL Engineers, Inc. USA
1:45 PM-2:00 PM		Effect of Installation Method on the Ratio of Tensile to Compressive Shaft Capacity of Piles in Dense Sand	Ayda Catalina Galvis Castro, Ph.D. Candidate, Purdue University USA
2:00 PM-2:15 PM		Case Study on the Frederick Douglass Memorial Bridge and the Use of Large Diameter Open End Steel Pipe Piles, Washington, DC	Michael Venezia, P.E., ECS Mid-Atlantic, LLC USA
2:15 PM-2:30 PM		Observed Driving Performance of Open-ended Steel Pipe Piles With and Without Plugged Toes	Chu Ho, Sc.D., M.ASCE, Arup USA
2:30 PM-2:45 PM		Linking the Installation Response of Screw Piles to Soil Strength and Ultimate Capacity	James Hambleton, Ph.D., Northwestern University USA
2:45 PM-3:00 PM		Efficient Torque-Installed Pile Use in Southern California	Molly Winston, Shannon & Wilson, Inc. USA
3:00 PM-3:30 PM		Networking Break & Exhibition	
3:30 PM-3:45 PM	Session 2A Deep Foundations and Ground Improvement	Adaptive Design and Contractual Approaches to Address Geotechnical Uncertainties in a Design-Build Ground Improvement Project	Yan Zhang, Ph.D., Hayward Baker, Inc. USA
3:45 PM-4:00 PM		Effectiveness of Head-enlarged CDM Columns in Evaluating Settlement of Improved Grounds	Dung Nguyen, Ph.D, Vietnam Japan University Vietnam
4:00 PM-4:15 PM		Strength of Jet Grouting in Marine Sediments with Hydrocarbons	Sharon Cranston, P.E., Simpson Gumpertz & Heger USA
4:15 PM-4:30 PM		A Combination of Jet Grouting and MPSP Technique in Iskar River Cascade Hydro-power Plant	Mario Ruggiero, Sireg, Geotech Italy
4:30 PM-4:45 PM		Jet Grout Underpinning to Support the Waterman Hospital	Stanley Worst, P.E., Schnabel Foundation Company USA
4:45 PM-5:00 PM		Urban High Capacity Deep Foundation Solutions in Sites with Complex History and Geology	Gisele Passalacqua, AECOM USA
5:00 PM-5:15 PM		Deep Foundation Advancements in Fargo	Matthew Glisson, P.E., Braun Intertec Corporation USA
5:15 PM-5:30 PM		Overcoming Constructability Challenges for Drilled Displacement Pile Installation in Difficult Geology	Yaser Taheri, P.E., Moretrench USA
5:30 PM-6:00 PM		Free Time	
3:30 PM-3:45 PM		Building Drilled Shafts to Bridge the Mississippi	Jill Badzinski, Michels Corporation USA

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Time	Session	Function	Presenter
3:45 PM-4:00 PM	Session 2B Drilled Foundations and Other Topics	Innovative Bi-Directional Testing of Drilled Shafts using Super-Cells	Antonio Marinucci, Ph.D., MBA, P.E., V2C Strategists LLC USA
4:00 PM-4:15 PM		Drilled Shaft Load Testing Program for Design of Drilled Shaft Foundations for an Automated People Mover	John Niedzielski, P.E., Gannett Fleming USA
4:15 PM-4:30 PM		Structural Evaluation of Thermal Integrity Testing Results of Transmission Foundations	Travis Coleman, P.E., GRL Engineers USA
4:30 PM-4:45 PM		Cased CFA Pile – An Alternative Piling Methods – A Chance for Technical and Economical Solutions	Franz-Werner Gerressen, BAUER Maschinen GmbH Germany
4:45 PM-5:00 PM		Augered Pile World Record Depth within a Soil Mix Basement	Andres Baquerizo, P.E., HJ Foundations-Hayward Baker USA
5:00 PM-5:15 PM		New Design Method for Frozen Earth Shaft Support	Joseph Sopko, Ph.D., Moretrench, A Hayward Baker Company USA
5:15 PM-5:30 PM		Comparison of 2D and 3D Anchor Analysis Methodologies	Murray Fredlund, Ph.D., Bentley Canada
5:30 PM-6:00 PM		Free Time	
Session 2C – MSSP Expo 1			
3:30 PM-3:45 PM	Session 2C MSSP Expo 1	Parts Ordering Online	Pollyanna Cunningham, ICE - International Construction Equipment Inc. USA
3:45 PM-4:00 PM		Nucor Skyline - Latest Product Offerings & Case Studies	Mark Salvatore, P.E., Nucor Skyline USA
4:00 PM-4:15 PM		MacLean Civil Products High Capacity Displacement Piles	Dylan Robinson, EIT, MacLean Civil Products USA
4:15 PM-4:30 PM		Benefits of Junttan Accelerated Hydraulic Hammers	Tim Dutton and Miika Eskelinen, Junttan USA INC USA
4:30 PM-4:45 PM		The Last 50 Years of the Steel Sheet Pile Evolution	Lee Wilczynski, MEEVER USA
4:45 PM-5:00 PM		Small to Large Diameter Cased Shaft Methodologies.	Vanessa Lucido and Dawn Walters, ROC Equipment USA
5:00 PM-5:15 PM		Ground Screws: Simple, Solid, Sustainable	Kirk Martin, American Ground Screw, Inc. USA
5:15 PM-5:30 PM		Micro Pile Casing/Tooling	Mike Ferko, Mavrik Environmental USA
5:30 PM-6:00 PM			Free Time
6:00 PM-8:00 PM		Welcome Reception & Poster Presentation	
Thursday, October 17, 2019			
7:00 AM-7:00 PM		Conference Registration	
7:30 AM-8:30 AM		Moderator & Speaker Technical Rehearsal	
7:30 AM-8:30 AM		Networking Breakfast	
8:30 AM-8:45 AM	Session 3A Exploration, Testing and Innovation	Unique Algorithm to Estimate Absorption Values from DST Data Sets Incorporating Source Wave Travel Paths	Gerald Verbeek, BCE USA
8:45 AM-9:00 AM		Cost and Technical Comparison of Non-destructive Test Methods for Drilled Shafts	Thomas Hyatt, P.E., GRL Engineers Inc. USA
9:00 AM-9:15 AM		Full Waveform Inversion of Cross-hole Stress Waves for Structural Integrity Testing of Drilled Shafts	Alireza Kordjazi, Temple University USA
9:15 AM-9:30 AM		Cross Hole Sonic Logging Versus Perimeter Sonic Logging: What Have we Learned?	Scott Jacobs, Case Foundation Company USA
9:30 AM-9:45 AM		Case History: Comparison of CSL Results to Physical Observations	David Graham, Dan Brown and Associates USA
9:45 AM-10:00 AM		Making Foundation Design Course More Engaging and Effective for Students	Evangelia Ieronymaki, Ph.D., Manhattan College USA
10:00 AM-10:15 AM		The Use of Rigid Inclusions to Support Large Spans	Sonia Swift, Menard USA
10:15 AM-10:30 AM		Innovative Use of an Active Soil Nail Wall in lieu of Pit Underpinning for a Historic Building	Maxim Schisler, E.I.T., Moretrench USA
10:30 AM-11:00 AM		Networking Break & Exhibition	
8:30 AM-8:45 AM	Session 3B Pile Foundations II	p-y Curves for Analyzing Micropiles in Sandy Soils Based on Static Lateral Load Tests	Akhter Hossain, Ph.D., P.E., AECOM USA
8:45 AM-9:00 AM		Experimental p-y Curves from Centrifuge Tests on Pile Foundations Subjected to Liquefaction and Lateral Spreading	Arash Khosravifar, Portland State University USA
9:00 AM-9:15 AM		Innovative Driven Pile Solution for the Rhode Island Route 6/10 Interchange Project	Seth Hamblin, P.E., Geosciences Testing & Research, Inc., USA
9:15 AM-9:30 AM		Installation and Efficiency of Common Helical Pile Couplings	Jason Herron, Hubbell Power Systems USA
9:30 AM-9:45 AM		Effects of Atmospheric Conditions on Energy Pile Performance	Melissa Beauregard, Ph.D., United States Air Force Academy USA
9:45 AM-10:00 AM		Identification and Quantification of Pile Relaxation	Patrick Hannigan, P.E., GRL Engineers, Inc. USA
10:00 AM-10:15 AM		The use of Vibratory Driving of Foundation Piles for Offshore Applications - State of the Practice	Gerald Verbeek, BCE USA
10:15 AM-10:30 AM		Large Diameter Open-end Pipe Pile Driveability Analysis Including Geotechnical Friction Fatigue	Rozbeh Moghaddam, GRL Engineers, Inc. USA
10:30 AM-11:00 AM		Networking Break & Exhibition	

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8:30 AM-8:45 AM	Session 3C MSSP Expo 2	Ground Improvement: A Discussion on Dynamic Compaction	Chris Woods, P.E., G.E., D.G.E., LEED AP BD+C, Densification, Inc. USA
8:45 AM-9:00 AM		Latest Development on Diaphragm Walls Technologies.	Marco Chiarabelli, P.E. and Andrea Di Eugenio, Soilmec North America
9:00 AM-9:15 AM		Technical and Environmental Leader in the use of Slurry in the Foundation industry.	Orlando Salazar, Buck Hammond and Buck Hammond Baroid IDP USA
9:15 AM-9:30 AM		Water Retention - Pressure Filtration Augercast Grout Tremie Concrete	John Anderson, Specrete-IP Incorporated USA
9:30 AM-9:45 AM		Forward Trends with Slag Cement in Geotechnical Applications	Gordon McLellan and Lori Tiefenthaler Lehigh Hanson USA
9:45 AM-10:00 AM		Drilled Shaft Deep Foundation Rebar Cage/Tendon Alignment Devices.	Stan Agee, Pieresearch USA
10:00 AM-10:15 AM		Hydraulic Internal Bracing for Deep Foundations and Excavations	Michael Barr, P.E. and Christian Hoym United Rentals Trench Safety USA
10:15 AM-10:30 AM		Save, Link & Analyze - Optimize your Special Foundation Construction Projects with fielddata.io	Jochen Maurer, fielddata.io GmbH Germany
10:30 AM-11:00 AM		Networking Break & Exhibition	
11:00 AM-11:15 AM	Session 4A Complex Excavations, Underpinning and Nailing	Innovations and Challenges During Urban Development – Shoring and Foundations of Canada’s Tallest Residential Building	Shawna Munn, P.Eng. and Joseph Lodde, Isherwood Geotechnical Engineers Canada
11:15 AM-11:30 AM		Top-Down Methods Utilizing Secant Walls at 110 N. Carpenter: Design and Construction	Dave Sutfin, P.E., S.E., Michels Corporation USA
11:30 AM-11:45 AM		Cost Effective Excavation Support in Seattle	Fernanda Madrona, P.E., Terracon USA
11:45 AM-12:00 PM		Jet Grout Underpinning of Sensitive Structures in Urban Environments	John Gill, Hayward Baker USA
12:00 PM-12:15 PM		Helical Pile-to-Footing Connections Subjected to Uplift Forces: Improving Future Practice	Serhan Guner, Ph.D., P.Eng., University of Toledo USA
12:15 PM-12:30 PM		Hudson’s Revitalization - The Use of Robotics in the Work Place	Dave DeClerck, Hardman Construction USA
12:30 PM-1:30 PM		DFI Business Meeting Luncheon	
11:00 AM-11:15 AM	Session 4B Alternative Foundations	The Final Piece of the Puzzle: Re-Design of Grouted Closures for a Dam Cutoff Wall	James Myers, P.E., Moretrench USA
11:15 AM-11:30 AM		Concrete Filled Steel Tubes and Their Connections for Efficient Deep Foundations in Regions of Moderate and High Seismicity	Dawn Lehman, Ph.D., University of Washington USA
11:30 AM-11:45 AM		Case Study: Stability Analysis for an Existing Bridge Experiencing Riverbank Erosion	William Bohlen, P.E., BGE, Inc. USA
11:45 AM-12:00 PM		Emergency Jacking Tunnel in Compressible Soil	Michael McNicholas, Moretrench USA
12:00 PM-12:15 PM		A Solution for Interior Retrofit Projects	Brendan FitzPatrick, Duro Terra, LLC USA
12:15 PM-12:30 PM		Specialty Geo-Engineering in a Caisson Town	Jeffrey Hill, Keller USA
12:30 PM-1:30 PM	Business Meeting Luncheon and Hal Hunt Lecture	DFI Business Meeting Luncheon	
1:30 PM-2:30 PM		Hal Hunt Lecture on Communications <i>sponsored the DFI Women in Deep Foundations Committee</i>	Linda Alvarado. President Alvarado Construction and Co-Owner, Colorado Rockies
2:30 PM-3:00 PM		Free Time	
		Plenary Session 3	
3:00 PM-4:30 PM	Legends	Legends Program celebrating Dr. Bengt H. Fellenius, Thomas J. Wysocky (posthumously) and Professor Thomas Bauer	Moderated by John Wolosick, P.E., Past President-DFI
4:30 PM-4:45 PM		Networking Break & Exhibition	
4:45 PM-5:00 PM	Student Paper Competition and Outstanding Project Award	Student Paper Competition Winner Presentation: Theoretical "t-z" Curves for Piles in Radially Inhomogeneous Soil	Jamie Crispin and Abigail Bateman, University of Bristol, Bristol UK
5:00 PM-5:30 PM		Outstanding Project Award Winner Presentation: Marc Basnight Bridge	Mike Batten and Beth Howey, HDR with Rob Gianna, PCL Civil Constructors USA
5:30 PM-6:30 PM		Free Time	
6:30 PM-7:00 PM		DFI Awards Reception	
7:00 PM-8:30 PM		DFI Awards Banquet	

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Time	Session	Function	Presenter
Friday, October 18, 2019			
7:30 AM-12:00 PM		Conference Registration	
7:30 AM-8:30 AM		Moderator & Speaker Technical Rehearsal	
7:30 AM-8:30 AM		Networking Breakfast	
8:30 AM-8:45 AM	Plenary Session 4 Developments in Safe Geo-Construction	Consultants Can Be Safe Too - A Collaborative Approach	Michael Weaver, P.E., Haley & Aldrich, Inc. USA
8:45 AM-9:00 AM		Numerical Analysis in Assisting Crane Pad Design and Underground Utilities Evaluation	Yao Zhang, Terracon Consultants USA
9:00 AM-9:15 AM		Performance Monitoring of Mixed Ground Working Platform for a CCR Surface Impoundment	Ali Ebrahimi, Geosyntec Consultants USA
9:15 AM-9:30 AM		Design and Construction of Mixed Ground Working Platform for a CCR Surface Impoundment	Daniel Woeste, P.E., Geosyntec Consultants USA
9:30 AM-10:00 AM		Managing Risk Allocation for Protection of Existing Structures due to Adjacent Construction Activity Moderator: Scott Difiore, P.E, Simpson Gumpertz & Heger	Panelists
10:00 AM-10:30 AM		Networking Break & Exhibition	
10:30 AM-10:45 AM	Closing Plenary The Digital Future	To Be Announced	To Be Announced
10:45 AM-11:00 AM		Utilizing Drones to Improve Project Workflows	Barritt Lovelace, P.E., Collins Engineers USA
11:00 AM-11:15 AM		DIGGS Does Deep Foundations	Robert Bachus, Ph.D., P.E., D. GE, Geosyntec Consultants USA
11:15 AM-11:30 AM		Geo-Foundations Project Information Management Systems on a Budget	Jamey Rosen, M.Sc., P.Geo., Geosyntec Consultants Canada
11:30 AM-11:45 AM		Digital Geology	Leonard Endicott, Ph.D., I.C.E Hong Kong
11:45 AM-12:00 PM		Diving Underground - Through a Hologram - To Better Understand Foundation Risk	Scott Anderson, Ph.D., P.E., BGC Engineering USA
12:00 PM-12:15 PM			Closing Plenary - All Roads Lead to National Harbor