



FINDING
COMMON
GROUND

Collaboration. Networking. Education. Communication.



PRESENTING

Alliance Update

Deep Foundations Institute

James A. Morrison, P.E.

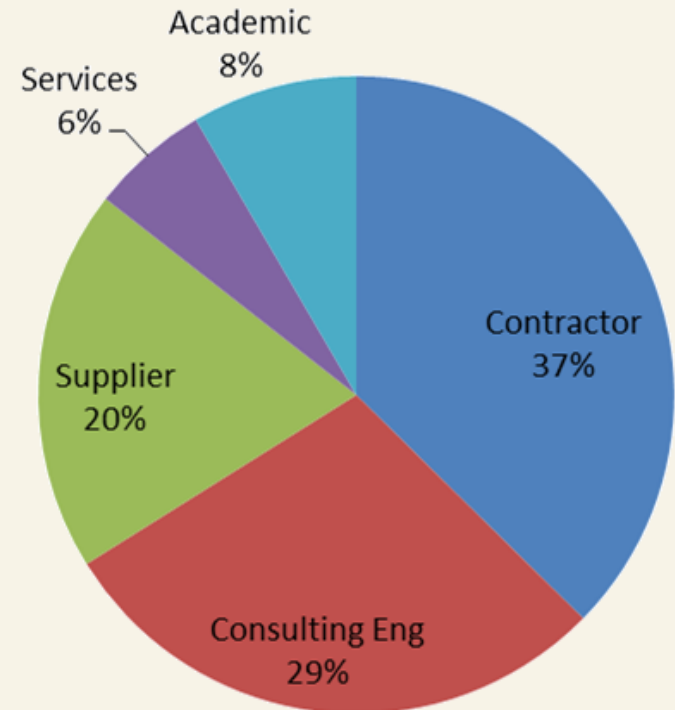
Immediate Past President - Deep Foundations Institute
Engineering Services Manager - Kiewit Infrastructure Group

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Mission

**Advance the
deep foundations industry
through collaboration of
engineers, contractors,
manufacturers and
educators**



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Where is DFI?



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Chennai, India



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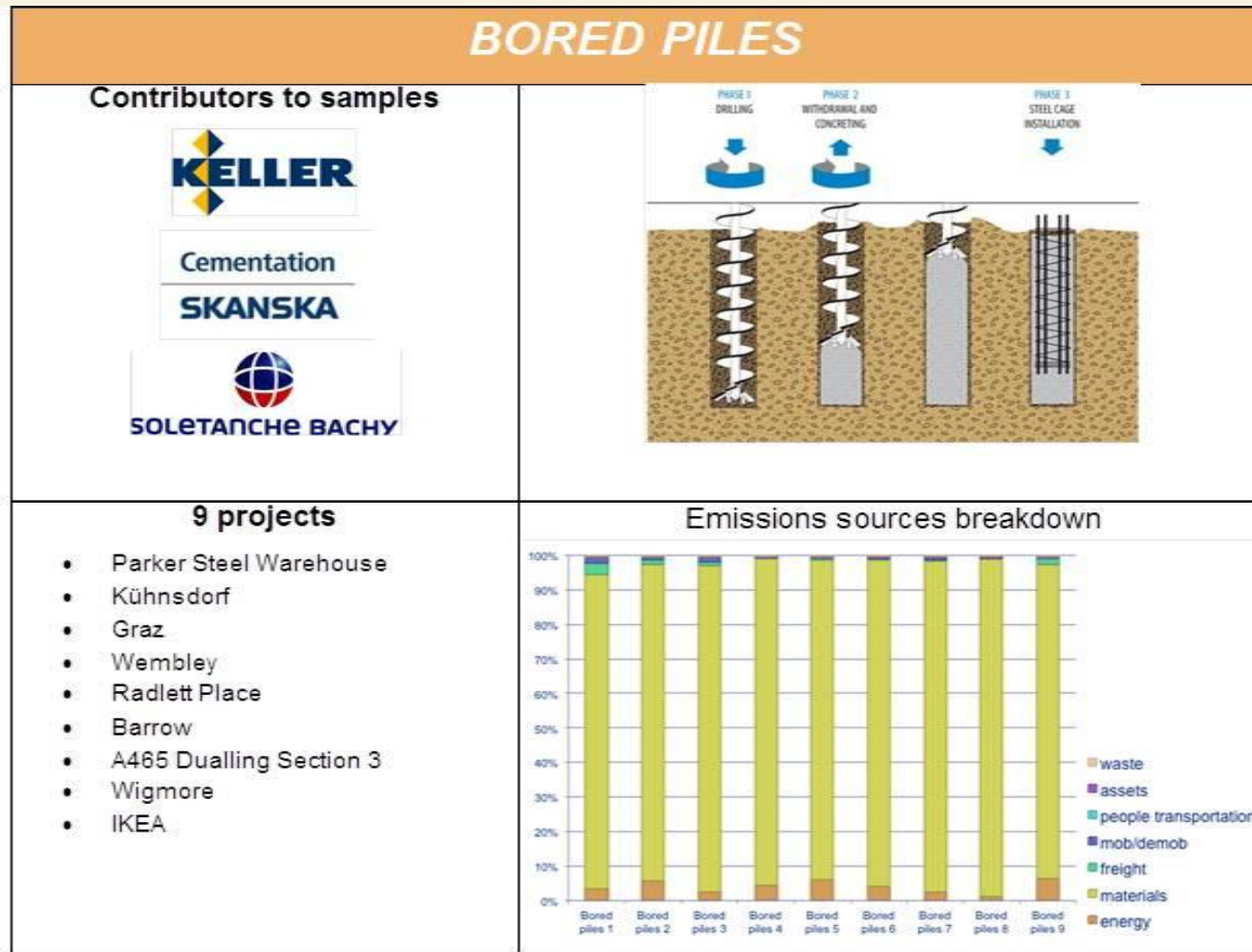
Brazil SEFE 7 Conference Panel on Contractual Practices



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DFI Europe

EFFC-DFI Carbon Calculator



EFFC-DFI Carbon Calculator

The main quantitative results and associated ratios are shown below:

Primary Emission sources – BORED PILES		98 %
Source	Activity data	Relative importance
Materials	Quantity of materials	96 %
Energy	Amount of energy	4 %
Secondary Emission sources		2 %
Source	Estimation method	Relative importance
Freight	Standard activity data (details in the freight section)	0,6%
Assets	Additional rate : 0,4%	0,4%
Mob/demob	Additional rate : 0,3%	0,3%
Waste	Additional rate : 0,3%	0,3%
People transportation	Standard activity data	0,2%

Current Drivers North American Foundation Practice

- Disaster Recovery and Prevention
- Infrastructure Rehabilitation
- Energy and Mining Development
- Urban Construction



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Committee Activities

Disaster Recovery and Protection

New Orleans Surge Barrier



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Sacramento Levee Closures



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Infrastructure Rehabilitation

I-35 Bridge Collapse



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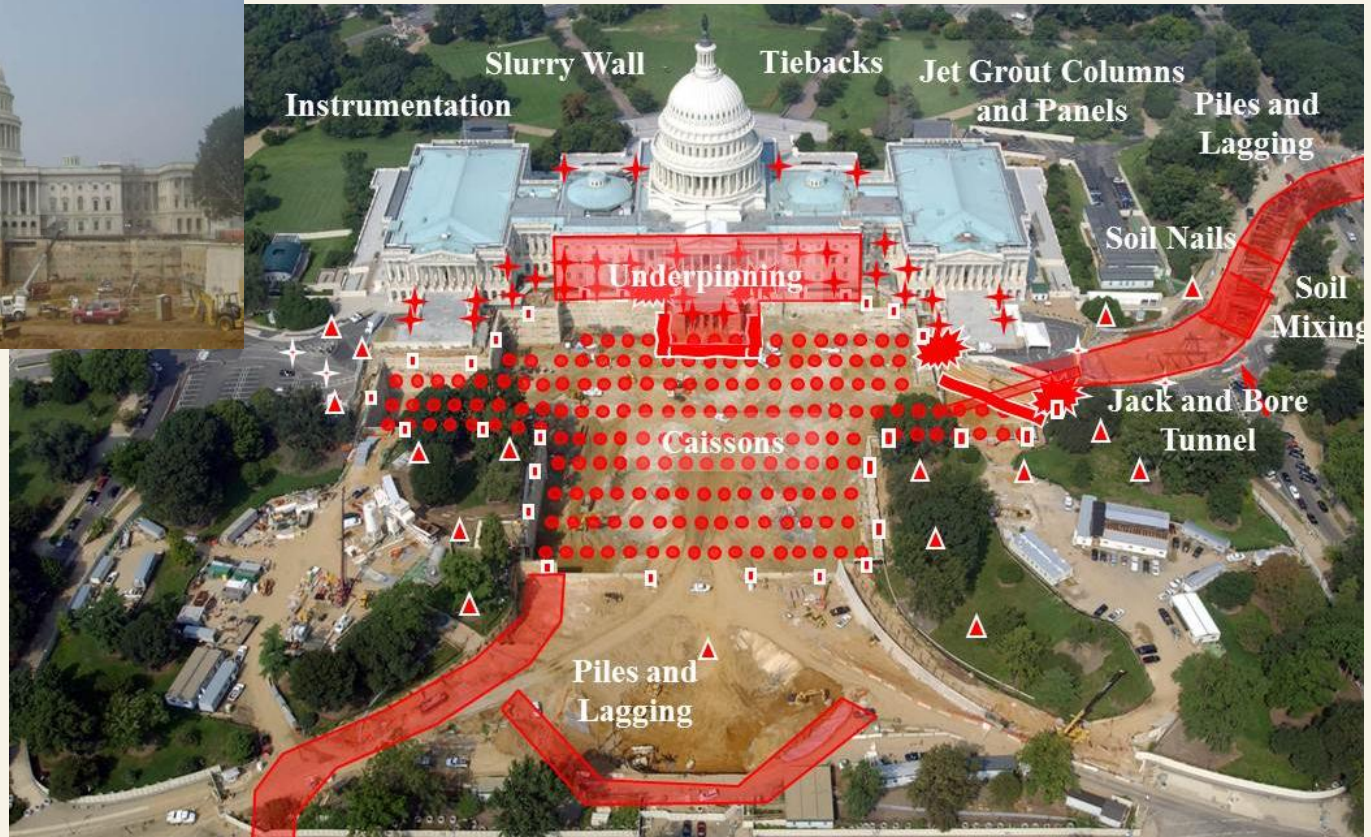
Urban Reconstruction City Creek Center



Courtesy of Nicholson Construction

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Urban Reconstruction U.S. Capitol Visitors Center



Courtesy of GEI Consultants

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Where are we going?

- Integrating international practice needs
- USACE-DFI model for information exchange
- Owner partnerships
- Safety, Quality, Sustainability, Contracting practices
- Design Optimization



DFI Publications

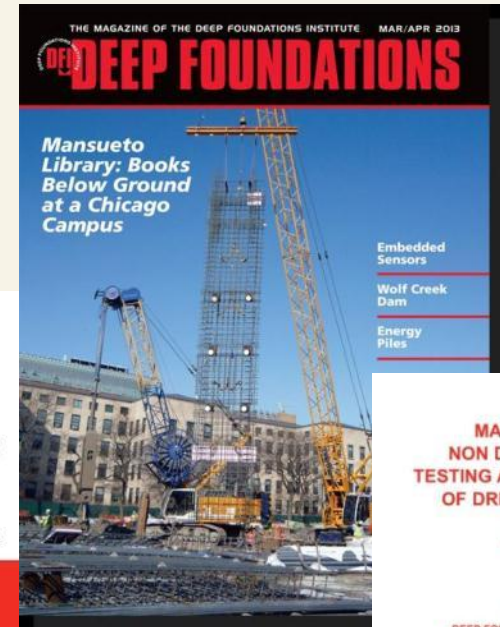
- Magazine
- Journal
- Onemine.org
- Publications



PAPERS:

Construction Of Large Drilled Shafts (2nd Annual Miles O'Neill Lecture) - Dan Brown	
Increase in Shear Modulus by Soil Mix and Jet Grout Methods - Paul Axtell & Timothy Stark	[11]
Construction, Inspection and Lessons Learned For 3.31-m Diameter CIDH Piles - Richmond San Rafael Bridge Seismic Retrofit - A.R. Dover & J. Davidson	[22]
Effects of Helical Anchor Geometry on Long-Term Performance for Small Wind Tower Foundations Subject to Dynamic Loads - Amy Cerato & Rory Victor	[30]
Ultimate Soil Pressures for Pile Groups in Soft Clay Subjected to Lateral Soil Movements - L.F. Niou, A.T.C. Goh, K.S. Wong, C.S. Teh	[42]
Lateral Earth Pressure on Lagging in Soldier Pile Wall Systems, Howard Perko & John Boulden	[52]

Deep Foundations Institute is the industry Association of
Individuals and Organizations Dedicated to Quality and
Efficiency in the Design and Construction of Deep Foundations



MANUAL FOR NON DESTRUCTIVE TESTING AND EVALUATION OF DRILLED SHAFTS

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In Cooperation With
ADSC: The International Association
of Foundation Drilling



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