



PILE DRIVING CONTRACTORS ASSOCIATION

A Driven Pile... Is a Tested Pile!

Michael Carter **Blue Iron Foundations & Shoring, LLC**



Michael Carter Graduated from the University of Central Florida with a BS in Civil Engineering with an emphasis in Geotech and from Rollins College in Winter Park Florida with an MBA with an emphasis in Marketing and Finance. Michael started working for a nationwide geotechnical firm as a consulting engineer primarily performing Dynamic Load Tests using the PDA and Pile Integrity Testing using the PIT as well as various deep foundation analysis. Having more of a passion for building vs consulting, Michael joined Giken America Corporation as a Project Engineer working his way to Project Management and ultimately the US Regional manager overseeing all the US projects for Giken. In 2010 as part of a corporate restructure, Michael and the entire construction division staff from Giken formed Blue Iron Foundations and Shoring, LLC where he is a co-owner with Melissa Baker. Michael holds his PE and several GC licenses. Throughout his carrier Michael has worked on several deep foundations and shoring projects, but has spent the last 15 years specifically focusing on sheeting using the press-in method.



Gerald Verbeek
VMS Management Services



Gerald Verbeek received by BSc in Civil Engineering from Delft University of Technology in 1981 and his MSc in Structural Engineering from the same university in 1983. After spending about 20 years in the Oil and Gas industry, Gerald started a management consulting business (VMS) in 2004. One of the activities of his firm is helping European companies with their business in North America and as part of that he has been active promoting soil and foundation testing philosophies and equipment. In the area of foundation testing this is done though Allnamics USA, which is heavily involved in foundation testing as well as pile driving simulation and analysis, not only for piles driven with an impact hammer but also for piles driven with vibratory hammers. In the last couple of years Allnamics USA has been working with Smart Structures, Inc. on an integrated pile driving simulation, monitoring and testing system, which is the topic of his presentation.



Gregg V. Piazza
Mueser Rutledge Consulting Engineers



Gregg V. Piazza is an Associate at Mueser Rutledge Consulting Engineers; a leading foundation engineering firm based in New York City and holds a Professional Engineering license in the State of New Jersey.

He has worked at MRCE for the last 21 years as a structural engineer specializing in Waterfront Engineering. He performed engineering investigation and design for the rehabilitation of Casino Pier in Seaside Heights, NJ and coordinated MRCE's engineering response for New York City's rapid response inspection of coastal zones inundated by flood waters after Hurricane Sandy in 2012.

He was recently featured in Pile Buck Magazine's cover story about Mueser Rutledge Consulting Engineers and is a member of DFI's Marine Foundations Committee. Mr. Piazza can be contacted at gpiazza@mrce.com.



Armin W. Stuedlein, Ph.D, P.E.
Oregon State University



Armin is an Assistant Professor and the Loosley Faculty Fellow in the School of Civil and Construction Engineering at Oregon State University. Armin received his doctorate at the University of Washington in 2008. He joined the faculty at OSU in 2009 after five years of geotechnical consulting at Seattle-based firms. His research focuses on the performance of ground improvement methods, reinforced soils, and foundations, with methodologies that range from instrumented full-scale field testing, element-level laboratory work, and numerical and statistical simulations. Presently, his research is funded by the Oregon Department of Transportation, the National Science Foundation, and the National Academy of Science, with projects focused on understanding the axial and lateral load transfer of drilled shaft foundations, tall MSE walls with closely-spaced reinforcements, and drained timber pile ground improvement for liquefaction mitigation. Armin serves on the Soil Improvement and Risk Assessment and Management Committees at the Geo-Institute, the PDCA-USUCGER Joint Council, and is associate editor for the Journal of Geotechnical and Geoenvironmental Engineering. In 2013, Armin was the recipient of the Deep Foundations Institute Young Professor Paper Award.



Alex Ryberg, P.E.
GRL Engineers Inc.



Alex has been with GRL since 2010, and is experienced in all the foundation testing and data analysis services GRL provides. He has a BS and MS in Civil Engineering from Drexel University, with a concentration in Structural Engineering. Alex is a member of the Pile Driving Contractors Association and of the New Jersey Professional Engineers in Construction, and has achieved Advanced level on the PDCA/PDI Dynamic Measurement and Analysis Proficiency Test. Alex is a Registered Professional Engineer in the State of Pennsylvania.



Professor Per Reinhall **University of Washington**



Professor Reinhall's main research interest include nonlinear dynamical systems, acoustics, mechanics, and computing with focus on the development of biomedical devices and instrumentation, noise and vibration control, fluid-structure interaction and sensors and actuators.

Research in the biomedical area emphasize advances and innovation that result in enhanced or new clinical applications in diabetes, prosthetics, cardiac arrhythmias and disease and early detection of cancer. Research in non biomedical areas include noise control of fluid loaded structures, vibration control of structures, behavior of coupled oscillator systems, and fuel cell technology.



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Leo Pflug **EIC Associates Inc.**



Leo Pflug is a 1975 graduate of New Jersey Institute of Technology where he obtained a Bachelor of Science degree in Civil Engineering. He has been a Professional Engineer in New Jersey since 1984 and is currently the Chief Engineer at EIC Associates, Inc. in Springfield, NJ, where for the last 13 years he has bid and managed numerous heavy civil and marine construction projects. Prior to his employment at EIC Associates, he was a project manager with EE Cruz and Company for nine years and a field superintendent with Lad Construction for eight. His experience also includes nine years of power plant pollution equipment construction and start-up with Research Cottrell in the 1970's and 80's. He is married, has two grown daughters and lives in Berkeley Heights. NJ.



Gerry McShane Service Steel Warehouse



- Gerry has developed broad experience in Ground Engineering gained from periods in Contracting, as the owners Resident Engineer and in design with Civil engineering Consultants.
- Gerry graduated in the United Kingdom and joined a civil engineering consultant. He followed this with three years in South Africa with piling contractor Grinaker Construction to gain the required experience for the UK's P.E. exam.
- Gerry returned to the UK as Resident Engineer on a major Port development before moving back into design with British Steel's piling division. Here he was involved in research work on noise and vibration, evaluation of new metallurgy of steel for corrosion resistance and fire resistance of unprotected steel.
- In 1993 Gerry moved to Singapore to take up the post of Technical Manager for South East Asia. He returned to the UK 5 years later as Commercial Manager with British Steel's engineering division.
- Gerry moved to Chicago with CORUS (British Steel) to head up engineering and product development.
- In 2002 Gerry joined the Arcelor group as Vice President Engineering with Skyline Steel where he led research into new construction methodologies, product development and the durability of steel retaining structures.
- Gerry joined PilePro Steel in 2011 to develop innovative construction systems.
- In 2014 Gerry joined Service Steel Warehouse to expand their business into the piling foundation market.



Michael Justason, P. Eng McMaster University/Birmingham Foundation Solutions



Michael Justason's background includes a bachelor's degree in Civil Engineering & Management and a Master's degree in Earthquake Engineering, both from McMaster University. Michael is a registered Professional Engineer in the Province of Ontario, Canada, and is active on technical committees of the ASCE, ASTM, DFI, and other industry organizations.

In the past ten years, Michael has performed over 400 Statnamic pile load tests in 13 countries. Notable projects include:

- **Taipei 101 – Taipei Financial Center**, Taiwan (1999) (*currently the tallest building in the world*)
- **Hanshin Expressway Reconstruction**, Kobe, Japan (1995) (*foundation testing for reconstruction after 1995 Earthquake*)
- **Library of Alexandria**, Alexandria, Egypt (1996/97) (*reconstruction of famed Library of the ancient world*)
- **Burj-Al-Arab Hotel**, Dubai, United Arab Emirates (1997) (*tallest hotel in the world*)
- **Eureka Tower Apartments**, Melbourne, Australia (2001) (*tallest apartment building in the world*)

Since January 2002, Michael has been the lead engineer in the research and development of the Birmingham Clean Diesel Pile Driving hammer, and other advancements in pile driving hammer technology, such as the automatic Energy Control System (ECS).

More recently Michael has been involved in the investigation and feasibility of installing heating and cooling systems in pile foundations and has visited the inventors of the technology in Austria and has visited numerous completed projects in Europe. Birmingham have successfully installed the first building in Canada to use this type of 'energy pile'.

Michael is the immediate past president of the PDCA. He is currently a teacher at McMaster University and is a consultant with Birmingham Foundation Solutions.



Alexander Filotti, M.B.A., P.E. **Underpinning & Foundation Skanska**



Filotti holds a degree in Mechanical Engineering from the Polytechnic University of Bucharest (Diplomat Engineer), an Executive M.B.A. degree from Hofstra University and has been a registered Professional Engineer since 2007. In his fifteen years of experience with Underpinning and Foundation Skanska he was involved with the load tests design and other engineering work related with the company's pile driving projects. He also developed multiple computer 3D modeling applications for pile driving projects. At the present time his activity is focused on risk management. He serves as a member on the PDCA's Education Committee and is member of the ASCE, DFI and AISC.



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Thomas Heller **Liebherr Nenzing Crane Co.**



TC Heller is the Factory Representative for Liebherr Nenzing Crane Company. Responsible for the Central US for product awareness, education and facilitation of end use and customer acquisition for the following product groups manufactured by Liebherr; Piling and Drilling Rigs, Liebherr BVV Tools & Attachments, Duty Cycle Cranes, and Lift Cranes. Educated at the University of Arkansas in Business Administration, TC has been involved in Sales Marketing and Management for over the past 34 years. TC is an active member in the PDCA, DFI, SC&RA, ADSC and currently resides in Overland Park, Kansas with his lovely wife Sally.



Wayne Floyd
Phillips & Jordan, Inc.



Wayne Floyd joined P&J in 2014 and oversees P&J's Disaster Services Group. He has over 33 years of hands-on experience in emergency management planning, disaster response and recovery, and environmental health hazards associated with natural disasters. Wayne has served as a Debris Management and Public Assistance Program Manager for Federal Emergency Management Agency (FEMA) sub grantees in response to Federally Declared Disasters since Hurricane Katrina in 2005. Prior to that he served city, county, and state sub grantees in various roles associated with disaster response and recovery efforts, as well as planning for debris removal operations, and training in disaster damage assessment and FEMA Public Assistance Grant documentation and policy. Wayne is a graduate of East Carolina University where he received a degree in Environmental Health.



Nathan Shuman, P.E.
McLaren Engineering Group



Mr. Shuman is a structural engineer with over 14 years of experience in the structural design of buildings, bridges, marine structures, specialty façades, blast mitigation, forensic analysis and construction administration for such projects. His work has included new building design, renovation, static and dynamic computer modeling, linear and non-linear gravity and lateral analysis, construction documents, construction administration, and site inspections.

Mr. Shuman's passion for solving some of the world's toughest architectural and structural engineering problems allows him to excel in his field. Mr. Shuman's past and current experience include outstanding projects that exemplify his expertise and dedication to engineering. Some examples of his project accomplishments include the Phase I Beach Restoration Project and Beach 106th Street Project; where Mr. Shuman provided disaster relief for the New York City Department of Parks and Recreation.



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Steven L. Grogg, P.E. **McLaren Engineering Group**



Mr. Grogg is Vice President of McLaren's Site/Civil division and has 40 years of civil engineering experience encompassing: site development plans, infrastructure design, subdivision plans, environmental impact statements, storm water management, construction support services and green storm water and infrastructure design. His diverse and extensive experience includes preparation of storm water pollution prevention plans, hydrologic/hydraulic analysis, utilities and infrastructure coordination, drainage, sanitary and water supply, public outreach, expert testimony, parking layout and demand analysis, highway design, traffic signal design, airport design, parking garage functional design.

In 2013, he was Awarded Engineer of the Year by the NYSSPE - Rockland Chapter, for his work for the DPR post Superstorm Sandy. Regarding his work on this project, Angelyn Chandler of the NYCDPR said "I wanted to thank each one of you for your contribution to the Beaches Restoration project. It really is impressive what we were able to do in so little time. I attribute our success to the amazing group of designers, our constant communication, and Steve Grogg's incredible talent for coordination and management."



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Shaun McCafferty **R. Kremer & Son Marine Contractors, LLC**



Shaun has been with R. Kremer & Son Marine Contractors for over 15 years. He is a graduate of Monmouth University. He is Head Estimator, responsible for both public and private bidding. Shaun is involved in the design and planning for multiple municipal and private marinas. In addition, he works and advises vinyl companies on design and installation methods.

Shaun is a member of the NJ Marine Trades Association.



Tim Dardis **University of Washington**



Tim is a PhD candidate in Mechanical Engineering at University of Washington (UW). He holds an MS in Mechanical Engineering from UW and has completed extensive coursework in Arctic Engineering, at University of Alaska-Anchorage. Tim most recently worked as a Loads and Dynamics Engineer at Boeing Research & Technology (formerly known as Phantom Works) before entering the University of Washington to pursue his PhD. His dissertation is on underwater noise control of impact pile driving processes.