

Technical Workshop in Riyadh, Saudi Arabia

Rock Socketed Piles

DESIGN, CONSTRUCTION, AND TESTING



May 12, 2025



4 P.M. - 6 P.M.



Erfad Hotel,
RIYADH, SAUDI ARABIA



Eng. MOHAMAD HUSSEIN,

Executive Vice President and Partner
GRL Engineers Inc.
Executive Director and a Partner
Pile Dynamics, Inc.



Dr. Mohamed Ezzat,

Associate Professor, Consultant of Geotechnical Eng.
Prince Sultan University
Secretary of the ASCE Saudi Arabia Section
American Society of Civil Engineers (ASCE)



Dr. CR PARTHASARATHY

Founder and Managing Director
Sarathy Geotech & Engineering Services Pvt Ltd.

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Certificates of Attendance
will be issued to participants.

Workshop Overview

This specialized workshop brings together leading experts to explore the complete lifecycle of deep foundations, from design and construction to testing and quality assurance. Aimed at practicing engineers, researchers, and students, the workshop will provide practical insights into the geotechnical and structural aspects of deep foundation systems, with a focus on local Saudi Arabian conditions and international best practices. Through a series of expert-led sessions, participants will gain a comprehensive understanding of the challenges and solutions in implementing pile foundations into soil and rock formations.



Workshop Agenda

Time (PM)	Session	Speaker
04:00- 04:10	Opening Remarks and Welcome	
04:10 – 4:40	<i>Design and Construction of Rock-Socketed Drilled Shafts</i>	Dr. Mohamed Ezzat
4:40 – 5:20	<i>Testing Methods for Structural Integrity and Geotechnical Load Bearing Capacity</i>	Eng. Mohamad Hussien
5:20 – 5:50	<i>Quality Control, Quality Assurance, and Best Practices: Lessons from Local Case Studies</i>	Dr. Parthasarathy
5:50 – 6:00	Q&A and Closing Remarks	All Speakers

About Speakers



Mohamad Hussein, P.E., American Society of Civil Engineers Life Member, is Executive Director of Global Industry Relations at Pile Dynamics, Inc., the world's oldest and largest specialty deep foundations testing equipment manufacturing company; and is Principal Engineer and Executive Vice President of GRL Engineers, Inc. the world's oldest and largest engineering consulting firm specialized in testing of deep foundations. In his 40+ years career he has consulted on more than 1,000 deep foundations projects throughout the United States of America and several countries. He is managing lecturer of the American Society of Civil Engineers' (ASCE) Continuing Education Class: Deep Foundations Design, Construction, and Quality Control. Mohamad is a member of the deep foundations related committees of DFI, ASTM, PDCA, ASCE, and TRB. Chaired the Deep Foundations Committee of the ASCE's Geo-Institute (2002-2009), and the PDCA's Education Committee (2012-2013); and currently Chairs the PDCA's Technical Committee. Mohamad is the recipient of several professional and industry awards and recognitions. Published over 60 technical papers, and co-edited 10 engineering books. He has achieved Expert level on the PDCA/PDI Dynamic Measurement and Analysis Proficiency Test and on the Foundation QA High Strain Dynamic Pile Testing examination and is a registered professional engineer in several USA States. Mr. Hussein conceived and Chaired the first International Foundations Congress and Equipment Expo (IFCEE) that is now periodically repeated as an industry landmark.



Mohamed Ezzat is an Associate Professor of Geotechnical Engineering with an emphasis on resilient infrastructure applications. He obtained his MSc in 2013 and a Ph.D. in 2018, both at Ain Shams University, Egypt. He has been instrumental in founding the Structures and Materials (S&M) Research Lab and recently established the GEOTECH 2.0 Research Lab, an advanced AI-driven geotechnical research facility funded by a major research grant by the Saudi government. Dr. Al-Atroush has been awarded numerous accolades for his contributions to research, including the prestigious HH Prince Abdulaziz bin Ayyaf's Award for Scientific Research (2024). Between 2020 and 2023, he secured six research grants for studies in resilient and sustainable infrastructures and earned the PSU Research Excellence Awards, with 2nd prize in 2021 and 1st prize in 2023 for his research addressing climate change challenges. His contributions to high-impact research are reflected in several publications in prestigious journals and conferences worldwide. As the Secretary of the American Society of Civil Engineers (ASCE) Saudi Arabia Section and a member of the Soil Improvement Technical Committee of the ASCE Geotechnical Institute (GI), Dr. Al-Atroush actively contributes to advancing the field of geotechnical engineering. He is also a member of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE). Additionally, he is the founder and faculty advisor of the ASCE Student Chapter at PSU. Beyond academia, Dr. Al-Atroush is a licensed professional engineer with over 15 years of experience. He has provided geotechnical expertise for more than 250 projects across the Middle East. His portfolio includes site investigations, problematic soil analysis, slope stability evaluations, deep excavation support design, dewatering systems, deep foundation and bridge design, geophysical studies, and the impact of tunnel-induced ground deformations on adjacent structures.



Dr CR Parthasarathy started his career as a Geotechnical Engineer in 1993 and involved in numerous large scale site investigation/engineering studies for both Offshore and Onland projects viz., multi-storied complexes, refineries, embankments, bridges, water-retaining structures, offshore platforms, pipelines, Jackup rigs etc. He has rich experience in Site Characterisation & Deep Foundation testing in India and abroad. He has delivered 100's of Lectures on various forums on site characterisation, deep foundation testing and case studies. Dr CR Parthasarathy has worked as Consultant / Geotechnical Expert in Offshore, Near shore and Onland Sectors around the globe. As a technical partner of Pile Dynamics USA, he is instrumental in promoting quality testing of deep foundations in India and Middle East and also authorised trainer for high strain dynamic pile testing. He has trained more than 1500+ people in the last two years. He has achieved EXPERT Level in the PDI/PDCA Proficiency Test on dynamic measurement and analysis. He is the life fellow of Indian Geotechnical Society (IGS), Elected National Executive Member of IGS for three consecutive terms, Past Chairman of IGS-Bengaluru Chapter and currently the Executive Committee Member of DFI India. He is the founder of Taqell Edification Pvt Ltd., and Chairman of SGES Foundation, a non profit organisation.

See You!



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No registration fee is required!

ASCE

SAUDI ARABIA SECTION