

AFS30: Foundations of Bridges and Other Structures Committee
Transportation Research Board 90th Annual Meeting
January 23-27, 2011
Summary of Sessions

Poster Session (P)s

236 (GPP11-002)

Load and Resistance Factor Design Practice and Case Studies in Geotechnical Engineering

Kyung Jun Kim, North Carolina Department of Transportation, presiding
Jan 24 2011 9:30AM- 12:00PM, Marriott, Salon 2
Sponsored by Committee on Foundations of Bridges and Other Structures

Challenges of Design-Build Mass Transit Project in North Jersey (11-1790)

Russell W. Preuss, Gannett Fleming, Inc.

NCDOT Experience in Load and Resistance Factor Design and Construction of Driven Pile Foundations (11-3890)

Kyung Jun Kim, North Carolina Department of Transportation
Christopher A. Kreider, North Carolina Department of Transportation

Procedure for Incorporating Pile Setup in Load and Resistance Factor Design of Steel H-Piles in Cohesive Soils (11-3428)

Kam Weng Ng, Iowa State University
Sri Sritharan, Iowa State University
Muhannad T. Suleiman, Lehigh University

Modeling of Soil-Structure Interaction in Presence of Large Deformations in Soil (11-2287)

Ronald F. Kulak, Argonne National Laboratory
Cezary Bojanowski, Argonne National Laboratory

Implementation of Bayesian Theory on LRFD of Axially Loaded Driven Piles (11-4101)

Jae Hyun Park, Korea Institute of Construction Technology
Dongwook Kim, Korea Institute of Construction Technology
Moonkyung Chung, Korea Institute of Construction Technology
Ka Hyun Park, Seoul National University, South Korea
Choong-Ki Chung, Seoul National University, South Korea

Paper Session (S)s

435 (GPS11-007)

Foundations: Mitigation, Monitoring, and Metamorphosis

Robert E. Kimmerling, PanGeo Inc., presiding
Jan 25 2011 8:00AM- 9:45AM, Marriott, Thurgood Marshall South
Sponsored by Committee on Foundations of Bridges and Other Structures; Committee on Soils and Rock Instrumentation

Pile and Shaft Integrity Test Results: Classification, Mitigation, Acceptance, and Rejection
(11-2619)

Karen Webster, GRL Engineers, Inc.
Frank Rausche, GRL and Associates
Scott Webster, GRL Engineers, Inc.

Water Jetting for Mitigation of Defects in Drilled Shafts: Laboratory Investigation (11-3556)

Gregg L. Fiegel, California Polytechnic State University
Clayton Proto, California Polytechnic State University
Daniel C. Jansen, California Polytechnic State University
Matthew Schaffer, California Polytechnic State University
Jay S. DeNatale, California Polytechnic State University

Statistical Approach in Determining Monitoring Distance During Pile Driving (11-2609)

Mo Zhang, Worcester Polytechnic Institute
Mingjiang Tao, Worcester Polytechnic Institute
Gavin P. Gautreau, Louisiana Transportation Research Center
Zhongjie Zhang, Louisiana Department of Transportation and Development

Design and Performance of Geogrid-Reinforced Embankment Supporting Spread Footing Bridge Foundation (11-2087)

Kyung Jun Kim, North Carolina Department of Transportation
Christopher A. Kreider, North Carolina Department of Transportation
Young Jin Park, North Carolina State University, Raleigh

682 (GPS11-006)

Integrated Field Testing to Maximize Design and Construction Efficiency

Mark J. Morvant, Louisiana Department of Transportation and Development, presiding
Jan 26 2011 10:15AM- 12:00PM, Marriott, Maryland C
Sponsored by Committee on Foundations of Bridges and Other Structures

Lateral Capacity of Short Rock Sockets in Weak Rock (11-2791)

Robert L. Parsons, University of Kansas
Matthew Charles Pierson, University of Kansas
Isaac Willems, University of Kansas
Jie Han, University of Kansas
James Joseph Brennan, Kansas Department of Transportation

Lateral Load Testing Micropiles to Evaluate the Impact of Threaded Joints and Casing Plunge on Short Micropiles in Shallow Rock (11-1429)

J. Brian Anderson, Auburn University
Michael R. Babalola, North Carolina Department of Transportation
John Fargher, North Carolina Department of Transportation
Dean Hardister, North Carolina Department of Transportation
John Pilipchuk, North Carolina Department of Transportation

Field Testing and Analyses of a Batter Pile Group Foundation Under Lateral Loading (11-0715)

Murad Yusuf Abu-Farsakh, Louisiana State University
Xinbao Yu, Louisiana Transportation Research Center
Binay Pathak, Louisiana State University
Zhongjie Zhang, Louisiana Department of Transportation and Development

Pile Load Test and Implementation of LRFD Specifications: Case Study of Caminada Bay Bridge Project in Louisiana (11-2891)

Sungmin Yoon, Louisiana Department of Transportation and Development
Ching Tsai, Louisiana Department of Transportation and Development
James Matt Melton, Louisiana Department of Transportation and Development

Published Meeting - Committee (M)s

GPM11-020

Foundations of Bridges and Other Structures Committee

[Brian A. Liebich](#), California Department of Transportation, presiding
Marriott, Washington B6 Jan 26 2011 2:30PM- 6:00PM
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