

**Event Number:** 236

**Event Title:** Foundation Design and Analysis

**Event Date:** Jan 11 2010 9:30AM- 12:00PM

**Event Location:** Marriott, Salon 2

**Event Description:**

**Event Agenda:**

**Presiding Officers:**

Pando, Miguel A., University of North Carolina at Charlotte

**Sponsored By:**

*Foundations of Bridges and Other Structures (AFS30)*

*Soil Mechanics (AFS00)*

**Presentations:**

**Energy Efficiency and Rod Length Effect in SPT Hammers [\(10-0317\)](#)**

Valiquette, Michael D., North Carolina Department of Transportation

Robinson, Brent , North Carolina State University, Raleigh

Borden, Roy H., North Carolina State University, Raleigh

**Analysis Method for Drilled Shaft Stabilized Slopes Using Arching Concept [\(10-3582\)](#)**

Liang, Robert , University of Akron

Al Bodour, Wassel , University of Akron

Yamin, Mohammad , University of Akron

Erfani joorabchi, Arash , University of Akron

**Effects of Scour on Sand Resistance to Laterally Loaded Piles Considering Stress History [\(10-3541\)](#)**

Lin, Cheng , University of Kansas

Han, Jie , University of Kansas

Bennett, Caroline R., University of Kansas

Parsons, Robert L., University of Kansas

**CPT Sounding and Pile Driving: Case History of I-10 Twin Span Bridges in Louisiana [\(10-1265\)](#)**

Nickel, Chris , Louisiana Department of Transportation and Development

Zhang, Zhongjie , Louisiana Department of Transportation and Development

Tsai, Ching , Louisiana Dept of Transportation

**Event Number:** 536

**Event Title:** Service Limit State Design of Deep Foundations for Compatibility with Structural Performance

**Event Date:** Jan 12 2010 3:45PM- 5:30PM

**Event Location:** Marriott, Delaware A

**Event Description:** Development of service limit state design methodologies for deep foundations (DP) based on compatibility with structural performance is discussed. A dialogue is anticipated on the definition of service limit state design of DP; the relationship of DP performance to damage potential, durability, and maintenance; long-term cost-effectiveness of structures; and how past experience with structural performance has established and refined service limit state design criteria for DP.

## Event Agenda:

### Presiding Officers:

Roberts, Lance Alan, South Dakota School of Mines and Technology

### Sponsored By:

*Foundations of Bridges and Other Structures (AFS30)*

*General Structures (AFF10)*

### Presentations:

#### Panel Discussion ([P10-0081](#))

Samtani, Naresh , NCS Consultants, LLC

Misra, Anil , University of Kansas

Mulla, Mohammed A., North Carolina Department of Transportation

Sivakumar, Bala , HNTB Corporation

## Event Number: 561

**Event Title:** Continued Calibration Efforts and Implementation of Load and Resistance Factor Design Specifications for Foundation Design

**Event Date:** Jan 12 2010 7:30PM- 9:30PM

**Event Location:** Marriott, Delaware B

### Event Description:

#### Event Agenda:

### Presiding Officers:

Olson, Scott M., University of Illinois at Urbana-Champaign

### Sponsored By:

*Foundations of Bridges and Other Structures (AFS30)*

*Soil Mechanics (AFS00)*

### Presentations:

#### Performance-Based Design of Deep Foundation Systems Within the LRFD Framework ([10-1306](#))

Roberts, Lance Alan, South Dakota School of Mines and Technology

Misra, Anil , University of Kansas

#### Electronic Database for Pile Load Tests in Iowa (PILOT-IA): Paradigm for Data Archiving Needed for Regional LRFD Calibration ([10-1023](#))

Roling, Matthew John, Iowa State University

Sritharan, Sri , Iowa State University

Suleiman, Muhannad T., Lafayette College

#### Calibration of Resistance Factor for LRFD Design of Drilled Shafts in Louisiana ([10-1346](#))

Abu-Farsakh, Murad Yusuf, Louisiana State University

Yoon, Sungmin , Louisiana Department of Transportation and Development

Tsai, Ching , Louisiana Dept of Transportation

Zhang, Zhongjie , Louisiana Department of Transportation and Development