

Purdue Geotechnical Society Workshop Program

Friday April 24, 2015

Room STEW 214, Stewart Center, 128 Memorial Mall, Purdue University, West Lafayette, Indiana

Theme: **GEOTECHNICAL ENGINEERING - FROM THEORY TO PRACTICE**

7:30 a.m. Breakfast: coffee, juice, rolls, fruit, etc.

8:00 a.m. **Opening of Workshop** – *Philippe Bourdeau, Purdue University*

Welcome - *Rao S. Govindaraju, Bowen Engineering Head and Burke Professor of Civil Engineering*

MORNING SESSION

Moderator: *Antonio Bobet, Purdue University*; Coordinators: *Amy Getchell & Anahita Modiriasari, Purdue University*

8:15 a.m. **Keynote:**

GEOTECHNICAL CHALLENGES ENCOUNTERED DURING THE CONSTRUCTION OF LA YESCA DAM

Gabriel Fernández, Engineering Consultant & University of Illinois at Urbana-Champaign

9:00 a.m. **AN ADVANCED NUMERICAL APPROACH TO OPTIMISE THE CONSTRUCTION STAGES OF AN EARTH DAM RESTING ON FINE GRAINED STRATA**

Angelo Amorosi, Technical University of Bari

9:20 a.m. **AN APPROACH TO PREDICT SETTLEMENT OF EMBANKMENTS ON GRANULAR FILL**

Abhishek V. Sakleshpur, Purdue University

9:40 a.m. **GROUND IMPROVEMENT: A DISCUSSION ON DYNAMIC COMPACTION**

Chris Woods, Densification, Inc.

10:00 a.m. **BREAK**

10:30 a.m. **REPAIRING A CRACKED DAM**

Rick Deschamps, Nicholson Construction Company

10:50 a.m. **PEAKING BEHAVIOR OF FLEXIBLE BURIED PIPES**

Terry Masada, Ohio University

11:10 a.m. **STRENGTH GAIN OF LIME STABILIZED PLASTIC CLAYS USED IN PAVEMENTS: THE ROLE OF QUALITY CONTROL PROCEDURES**

Alejandro F. Moreira, Ferrovia Agroman US

11:30 a.m. **ADJOURN**

11:35 a.m. **GROUP PHOTO ON PMU STEPS**

11:50 a.m. **LUNCH** – Room 118, Purdue Memorial Union

AFTERNOON SESSION

Moderator: *Joe Sinfield, Purdue University*; Coordinators: *Anuj Choudhari & Gabriela Alvarado Calle, Purdue University*

1:00 p.m. **Keynote:**

FROM THEORY TO PRACTICE: DESIGN OF EXCAVATION SUPPORT

Rich Finno, Northwestern University

1:45 p.m. **A NEW SLOPE STABILIZATION METHOD: FROM THEORY TO PRACTICE**

Miriam Smith, Geopier Foundation Co.

2:05 p.m. **DEEP EXCAVATION CHALLENGES FOR THE WILLIAM ECKHARDT RESEARCH CENTER AT THE UNIVERSITY OF CHICAGO**

Shane Farr, Hayward Baker Inc.

2:25 p.m. **CHARACTERIZATION OF A SOFT CARBONATIC DEPOSIT ACROSS MULTIPLE SCALES**

Alain El Howayek, Purdue University

2:45 p.m. **BREAK**

3:00 p.m. **PANEL DISCUSSION**

Moderator: *Vincent Drnevich, Purdue University* – Discussion Leader: *Mete Sozen, Purdue University*

Panelists: *Richard Goodman, University of California, Berkeley, Gabriel Fernández, and Rich Finno.*

4:00 p.m. **WORKSHOP CLOSURE**