Purdue Geotechnical Society Workshop Program Friday April 26, 2019

Burton Morgan Center, Purdue University, West Lafayette, IN

Geotechnics of Natural Hazards

7:30 a.m.	Breakfast:	coffee.	iuice.	rolls.	fruit

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

Welcome: Antonio Bobet, Purdue University

MORNING SESSION

Moderator: Rick Deschamps, Nicholson Construction Co.; Coordinators: Hala El Fil & Osvaldo Vitali, Purdue U.

8:15 a.m. <u>Keynote Lecture: SEISMIC LIQUEFACTION IN THE CENTRAL-EASTERN US</u>
Russell Green, Virginia Polytechnic Institute and State University

9:00 a.m. <u>LIQUEFACTION OF GRAVELLY SOILS AND THE IMPACT ON CRITICAL INFRASTRUCTURE</u>

Adda Athanasopoulos-Zekkos, University of Michigan

9:20 a.m. LIQUEFACTION HAZARDS MITIGATION USING EARTHQUAKE DRAINS Yan Zhang and Greg Terri, Hayward Baker, Inc.

9:40 a.m. PERFORMANCE OF FOUNDATIONS OF COASTAL INFRASTRUCTURE IN PUERTO RICODURING HURRICANE MARIA

Miguel Pando, University of North Carolina at Charlotte

10:00 a.m. BREAK

10:30 a.m. <u>THE EVOLUTION OF SEISMIC RISK IN PANAMA AND ITS CONSEQUENCES</u> *Luis Alfaro, Committee for Panamanian Structural Code*

10:50 a.m. "NATURAL" HAZARDS OF TAILINGS DAMS AND RECENT DEVELOPMENTS IN RISK TOLERANCE AND POLICY

David Geier, Golder Associates, Inc.

11:10 a.m. GEOTECHNICS OF LUNA LAVA TUBES: METEORITE IMPACT-INDUCED SEISMICITY

Anahita Modiriasari and Audai Theinat, Purdue University

11:35 a.m. GROUP PHOTO

12:00 p.m. LUNCH – John Purdue Room, Marriott Hall

AFTERNOON SESSION

Moderator: Robert Rabeler, SME; Coordinators: Andrea Ardila Quiroga & Venkata Abhishek Sakleshpur, Purdue U.

1:20 p.m. Keynote Lecture: PROTECTING THE GULF COAST AGAINST THE NATURAL HAZARDS OF STORM SURGE AND RISING WATER – A GEOTECHNICAL PERSPECTIVE

Joseph Cibor, Cibor Geoconsultants

2:05 p.m. OSO LANDSLIDE AND RUNOUT ANALYSES TO PREDICT FUTURE HAZARDS

Timothy Stark, University of Illinois at Urbana-Champaign

2:25 p.m. THE NATURAL HAZARDS OF DRILLED SHAFT CONSTRUCTION ON HERRINGTON LAKE

Darrin Beckett, Kentucky Transportation Cabinet

2:45 p.m. BREAK

3:15 p.m. CONSIDERING NATURE IN ADDRESSING RESILIENCE AND SUSTAINABILITY DURING POST-EARTHQUAKE

RECONSTRUCTION

Rodrigo Borela and David Frost, Georgia Institute of Technology

3:35 p.m. THE UNEASY RELATIONSHIP BETWEEN FOLSOM DAM AND THE CITY OF SACRAMENTO

Terry Sullivan, U.S. Army Corps of Engineers Risk Management Center

3:55 p.m. TRANSITIONING TO RESILIENT/SUSTAINABLE DESIGN IN THE FACE OF NATURAL HAZARDS

David Espinoza, Geosyntec Consultants

4:15 p.m. WORKSHOP CLOSURE