Purdue Geotechnical Society Workshop Program Friday May 5, 2023

Burton D. Morgan Center, Purdue University, West Lafayette, IN

Resilience, Sustainability and Geotechnics

Presentation Abstracts

7:45 a.m. Breakfast: coffee, juice, rolls, and fruit

8:15 a.m. Opening of Workshop and Welcome:

Luna Lu, Associate Dean of Faculty, College of Engineering & Acting Head, Lyles School of Civil Engineering, Purdue U.

MORNING SESSION

Moderator: David Espinoza, Geosyntec Consultants; Coordinators: Hannah Cupples & Mohammad Asad, Purdue U.

8:30 a.m. Keynote Lecture - DATA AND DATA MANAGEMENT: THE MISSING LINK IN SUSTAINABLE

GEOTECHNICAL PRACTICE

Robert C. Bachus, Geosyntec Consultants

9:15 a.m. THE GREAT LAKES TUNNEL PROJECT

Luis A. Avila, WSP

9:35 a.m. UNDERGROUND CONSTRUCTION- THE ORIGINAL GREEN INFRASTRUCTURE

A.J. McGinn, Brierley Associates

9:55 a.m. BREAK

10:40 a.m. INFRASTRUCTURE RESILIENCE IN UNDERGRADUATE EDUCATION AND RESEARCH

Kyle Kershaw, Rose-Hulman Institute of Technology

11:00 a.m. EXPERIMENTAL STUDIES ON THERMO-MECHANICS OF SANDS

Yize Pan, Northwestern University

11:25 a.m. GROUP PHOTO

11:50 a.m. LUNCH - Burton Morgan Center Café (MRGN 102)

AFTERNOON SESSION

Moderator: Malek Smadi, GeoTill Engineering; Coordinators: Kanika Gupta & Juan Jimenez Pirajan, Purdue U.

1:20 p.m.	Keynote Lecture - MAKING A DIFFERENCE: LESSONS FROM LOUISIANA COASTAL MASTER PLAN
	David Johnson, School of Industrial Engineering & Department of Political Science, Purdue University

2:05 p.m. REAL-TIME TUNNELING RISK FORECASTING USING VIBRATIONS FROM THE WORKING TBM

Yunyue Elita Li, Department of Earth, Atmospheric and Planetary Sciences, Purdue University

2:25 p.m. ASSESSMENT OF KINEMATIC ROCK SLOPE FAILURES IN MUDURNU VALLEY, TÜRKIYE

Arzu Arslan Kelam, Middle East Technical University

2:45 p.m. BREAK

3:20 p.m. SOIL-STABILIZING POTENTIAL OF FOOD INDUSTRY BYPRODUCTS

Arvin Farid, Boise State University

3:40 p.m. MODELLING THE DYNAMICS OF SLOW-MOVING LANDSLIDES DRIVEN BY PRECIPITATION

Xiang Li, Northwestern University

4:00 p.m. SITUATION AWARENESS: OBSERVATIONS AND PRELIMINARY LESSONS FROM THE FEBRUARY 2023

EARTHQUAKES IN TÜRKIYE

Ayhan Irfanoglu, Lyles School of Civil Engineering, Purdue University

4:25 p.m. WORKSHOP CLOSURE