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GEO-INSTITUTE CHICAGO – SEPTEMBER DINNER MEETING
MODEL-DRIVEN FORECASTING OF FLOWSLIDE TRIGGERING AT THE
REGIONAL SCALE

PLACE:	Pazzo's at 311 311 S Wacker Dr., Chicago, IL 60606 ((312) 913-1600) (Parking is located South of the 311 building - \$13.00 after 5:00 pm)
DATE:	Tuesday, September 12, 2017 Cocktails 5:15 pm, Dinner 6:15 pm, Presentation follow dinner
SPEAKER:	Giuseppe Buscarnera, Assistant Professor / Northwestern University
COST:	\$45 General (Contractor, Consultant with reservation) \$35 Education/Government Employees (with reservation) \$25 Students (with reservation) \$50 At the door OR After RSVP date (Make checks payable to "ASCE Geotechnical Group")
RSVP:	Monday, September 11, 2017 at 12:00 pm (CST) Email: asceilgeotech@gmail.com Phone: Ati Fathi 312.985.0364 Mike Bronson 847.777.0344

Program Summary

This talk focuses on the interplay between the deformation of unsaturated soils subjected to rain infiltration and the mobilization of rapid landslides in shallow slopes. The goal is to illustrate how principles of liquefaction theory and unsaturated soil mechanics can be used to understand and predict the response of liquefiable slopes to rainstorms. Specifically, the techniques discussed in the talk have the purpose to detect areas susceptible to debris flows and differentiate them from those that are likely to suffer slips of limited mobility. The presentation discusses a framework based on three main components: (i) the use of multiple safety factors for shallow slopes, each accounting for a different initiation mechanism (i) plastic models for soils able to capture frictional failure, liquefaction and wetting-induced collapse; (iii) a simulation approach able to track pore pressures and slope failures over large regions. The methodology is illustrated with reference to two case studies: (i) a series of underwater failures that took place on loosely compacted fills in the Canadian Beaufort Sea; (ii) a series of rainfall-induced debris flows that took place in the pyroclastic soil slopes mantling a volcanic region of Southern Italy.

Mr. Giuseppe Buscarnera is an Assistant Professor of Geotechnical Engineering at Northwestern University, which he joined in September 2011. He received his B.S. (2004), M.S. (2006) and Ph.D (2010) all in Civil Engineering from the Politecnico di Milano, Italy. During his doctoral and post-doctoral studies he has collaborated with several academic institutions around the world, such as the Universitat Politècnica de Catalunya (Spain), the Massachusetts Institute of Technology, and The University of Sydney (Australia). Dr. Buscarnera's research focuses on the area of geotechnical modeling, and in particular on soil stability, unsaturated soil mechanics and landslide hazard zonation. He is the lead PI of numerous sponsored projects on these topics and is serving as Associate Editor for Geotechnique Letters and the Journal of Geotechnical and Geo-environmental Engineering. His research has been recognized with the Faculty Early Career Development Award (CAREER) from the National Science Foundation and the ASCE Arthur Casagrande Award.