Intrinsic Soil Properties
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ABSTRACT

Intrinsic properties of soil including particle gradation, sphericity, and roundness control their macroscopic engineering properties such as packing density, limit index porosities, strength, compressibility and others. This presentation will highlight using computer optical programs to automatically and precisely quantify intrinsic properties from two - dimensional images and three – dimensional particle models. Extensive laboratory tests were performed on sands of various gradations, angularities, sphericities and geologic origins to develop relationships between their intrinsic properties and fundamental soil properties. The presentation will also illustrate how to utilize intrinsic soil properties in Discrete Element Method (DEM) modeling.

4:30 pm February 24, 2016   Room 2355 GG Brown

***** Everyone is invited – refreshments will be served *****
For more information on the seminar series visit: http://www.umich.edu/~geotech/lecture.html

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