

May 5, 6 and 7, 2025 – 3:00pm-6:00pm

Prof. Yannis F. Dafalias

*Professor, Department of Civil and Environmental
Engineering of the University of California at Davis*

**Topics in Soil Plasticity
Constitutive Modeling and
Applications**

The focus of the course is the development of advanced plasticity constitutive models for soils within the framework of Critical State Theory, and applications to geotechnical engineering problems with emphasis on coarse-grained soils under cyclic loading. The concept of Bounding Surface plasticity as applied to soils will constitute the main theoretical tool, while the role of fabric will be presented in conjunction with the newly developed Anisotropic Critical State Theory. A critical review of rate dependent plasticity in soil mechanics will be presented, and a new constitutive model for sands that is rate dependent but time independent will be developed.

Program:

https://phd.uniroma1.it/web/course---topics-in-soil-plasticity-constitutive-modeling-and-applications_ns22606EN_EN.aspx

Registration form:

<https://forms.gle/yCajQR4U13eJdR7M6>

