

The Second Frank L. DiMaggio Symposium: Constitutive Models

Chairs: Prof. Victor Kaliakin
University of Delaware, USA
&
Dr. Ashraf Al-Tahini
Aramco Company, Saudi Arabia

Session I (10:00 – 12:30; June 8, 2009; Jed D. Satow Room)

- 67 Tadatsugu Tanaka (Japan)
Numerical Methods for Consolidation of Viscoplastic Clay
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Mathematical Theory of Plasticity for Frictional Materials
- 89 Majid T. Manzari (USA)
On Material vs. Structural Response of Saturated Granular Soil Specimens
- 216 Lavinia Stefan, Farid Benboudjema, Jean Michel Torrenti & Benoit Bissonnette (France)
Behavior of Concrete at Early Stage using Percolation and Biot's Theory
- #201 Gaetano Elia & Angelo Amorosi (Italy)
Constitutive Models with Kinematic hardening: Effects on Anisotropy and Non-Coaxiality
- 226 Huabei Liu (USA)
Modeling Sand Behavior through Associate Flow Rule
- 94 Victor N. Kaliakin & Ping Jiang (USA)
Investigation of Mixed Elements with Continuous Pressure Approximations as Applied to Problems in Geomechanics

Session II (16:00 – 18:15; June 8, 2009; Jed D. Satow Room)

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Effect of Poisson's Ratio on The Dynamic Instability in Water-Saturated Elasto-Plastic Soil
- 98 Sonia Fortuna (Australia)
Some Observations on The Stress-Strain-Time Behaviour And Undrained Strength of Natural Pisa Clay Along Predominatly Deviatoric Stress Path
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Analysis of Consolidation Problem in Several Types of Cohesive Soils using the Bounding Surface Model

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Evaluation of Generalized Plasticity Based Sand Models in ABAQUS
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Revisiting Deformation Analysis for the Kansai International Airport
- 95 Ping Jiang & Victor N. Kaliakin (USA)
Investigation of Non-Conforming Elements for Geomechanical Applications

Strain Localization in Saturated and Partially Saturated Porous Media under Dynamic Loading

Chair: Prof. Majid T. Manzari
George Washington University, USA

13:00 – 15:15; June 9, 2009
Jed D. Satow Room

- 69 F. Luzon, A. Garcia-Jerez , M.A. Santoyo & F.J. Sanchez-Sesma (Spain)
A Hybrid Technique to Compute The Pore Pressure Changes due to Time Varying Loads: Application to The Impounding of The Itoiz Reservoir, Northern Spain
- ? 78 Y. Jia, H.B. Bian, G. Duveau & J. F. Shao (France)
Hydromechanical Modelling the Swelling Clay Buffer in Underground Storages
- 99 Sonia Fortuna & Andrew J. Whittle (Australia)
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Dynamic Strain Localization in a Simple Saturated Geomaterial at Finite Strain
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Localization in Undrained Deformation
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