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Soggetti	Engineering geology Soils - Testing Building sites - Evaluation
Lingua di pubblicazione	Inglese
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Note generali	"A Balkema book."
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Nota di contenuto	Front Cover; Table of contents; Introduction; Keynote lectures; The James K. Mitchell Lecture: Interpretation of in- situ tests- some insights; Variable penetration rate cone testing for characterization of intermediate soils; Combined use of geophysical methods in site characterization; Relating foundation capacity in sands to CPT; Site characterization in nearshore and offshore geotechnical projects; Beyond coefficient of variation for statistical characterization of geotechnical parameters; The mechanics of cone penetration: Contributions from experimental and theoretical studies Workshop lecturesAspects on soil investigation for embankments on soft soil; The detection of hidden shear zones in clay: A relevant issue in landslide hazard assessment; Application of in situ testing in tailing dams, emphasis on liquefaction: Case- history; Session report & papers technical session; 1 Direct-push in-situ test - Theme 1 - Technical Session 1; In situ evaluation of relative density from piezocene penetration tests of clean sand from China; Cyclic sleeve friction test

for the design of piles under cyclic loading; Centrifuge modelling of CPT in layered soils

Interpretation of consolidation parameters from CPTU results in sensitive clays; Using CPT for management of filling work; Use of CPTU and SDMT to characterise silty soil; SPT hammer motion and its effect on impact energy; Discrete element modelling of cone penetration tests in granular materials; Piezocone sleeve friction setup in low plasticity clays of Green Bay, Wisconsin, USA; Application of piezocone tests in the determination of non- hydrostatic distribution of water pressure in mine tailings profiles; Impact of effective area ratio assumption on PCPT- based soil classification

Stress history of Venice Lagoon sands from DMT and CPTU; CPTU and DMT for estimating soil unit weight of Lake Bonneville clay; 2 Direct-push in-situ test - T1 - TS4; Session report: Direct push- in in situ test; A comparative study of soil- rock total sounding and CPTu in glacial deposits; Measurements of energy and dynamic force using instrumented SPT in a soil profile and wave propagation analysis; CPTs executed in difficult conditions using CPTWD (Cone Penetration Test While Drilling) and its future developments; The seismic SPT to determine the maximum shear modulus

In- situ evaluation of compressibility for normally consolidated clays using PCPT; Comparison of predicted embankment settlement from piezocone penetration test with field measurement and laboratory estimated; Evaluation of deep sand unit weight estimated from CPT; Behavior of the Standard Penetration Test (SPT) in sandy deposits; Experiences in the use of DMT- SDMT in Costa Rica, Central America; Secondary compression of Venice Lagoon sands and silts from CPTU; Energy ratio of SPT practice performed in Thailand; Measuring energy in dynamic probing

Piezocone testing for use in the classification of soil behavior and flow characteristics: An experience carried out in Suape, Pernambuco

Sommario/riassunto

Site characterization is a fundamental step towards the proper design, construction and long term performance of all types of geotechnical projects, ranging from foundation, excavation, earth dams, embankments, seismic hazards, environmental issues, tunnels, near and offshore structures. The Fourth International Conference on Site Characterization (ISC'4) was held in Porto de Galinhas, Pernambuco, Brazil, from 18 to 21 September 2012, under the responsibility of TC-102/TC-16 on In-Situ Testing of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), the Brasilia
