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CURRICULUM

Dr. Antonio Cavallaro was graduated in Civil Engineering at the University of Studies of Catania. In 1997 he achieved his Ph.D. in "Geotechnical Engineering", during the Ph.D. training period he spend almost two years at the Politecnico of Torino (1995-1997) doing research on the dynamic soil behaviour and dynamic laboratory tests such as Cyclic Loading Torsional Shear tests, Resonant Column tests and Cyclic Loading Triaxial tests. In 1999 he won a biennial scholarship for post-doc research activities in the sector of "Geotechnical Engineering" at the Faculty of Engineering of the University of Catania. Since 2001 he is Senior Scientist of CNR (Institute for Archaeological and Monumental Heritage - IBAM - Catania). He took part into the study of the historical seismic, into the geotechnical investigations and into the interventions in foundation relative to the research project "The Study/Assessment Designs and Supervision/Monitoring for the Structural & Architectural Restoration of the Bedestan (Saint Nicholas Church), Nicosia, Cyprus", of the "Institute for Technologies Applied to Cultural Heritage" (ITABC) of CNR. He is involved in the research Commitment "Innovative Methodologies for the Knowledge of the Ancient Landscapes" of the Institute for Archaeological and Monumental Heritage and in the "Development of Multidisciplinary Methodologies and Project Strategies for the Analysis, the Preservation and the Reuse of the the Built Heritage", of IBAM-CNR. Currently, he is working on a study of seismic microzonation relative the historical centre of Catania, Noto (SR) and Augusta (SR), based on the geotechnical and partly structural characterization of some historical Churches and buildings, based on the definition of a project earthquake for the interventions and on the evaluation of possible amplification or attenuation phenomena. The studies involved the use of in situ Cone Penetration

Tests (CPT), Standard Penetration Tests (SPT), Seismic Dilatometer Marchetti Tests (SDMT) and Ménard Pressuremeter Tests (MPT).

Thanks to his expertise on the dynamic soil behaviour and dynamic laboratory tests Antonio Cavallaro has been invited as "Official Discussor" at the "*Fourth International Conference on Geotechnical Earthquake Engineering and Soil Dynamics*", San Diego, CA, 26 - 31 March 2001, during the session titled "Dynamic Properties for Soils, Engineering Soil Parameters & Constitutive Relations, New Field & Laboratory Methods & Results".

He was "Reviewer" in the following conference: "*Second International Symposium on Earthquake Resistant Engineering Structures*", Catania, 15 - 17 June 1999, "*Sixth International Conference on Case Histories in Geotechnical Engineering*", Arlington, 11 - 26 August 2008; "*International Conference on Performance-Based Design in Earthquake Geotechnical Engineering - from Case History to Practice*", Tokyo, 15 - 17 June 2009; "*Seven International Conference on Case Histories in Geotechnical Engineering*", Wheeling, 29 April - 29 May 2013.

He was component of the "Organizing Committee" and "Reviewer" of the "*Second International Conference on Performance-Based Design in Earthquake Geotechnical Engineering*" organized by Technical Committee of Geotechnical Earthquake Engineering and Associated Problems (TC203) the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and by the Associazione Geotecnica Italiana (AGI), Taormina, 28 - 30 May 2012. In 2015 he was part of the "Scientific Committee" of the "International Symposium for the 60th Anniversary of the Pressuremeter ISP7-PRESSIO2015" organized by the Tunisian Association of Soil Mechanics (ATMS), Hammamet, 1-2 May 2015.

He is author of about 90 publications published on proceedings of national and international Conference, books, national and international journals and ISI publications.

He is Editorial Board Member of the "American Journal of Civil Engineering" (ISSN Print: 2330-8729 and ISSN Online: 2330-8737) published by the Science Publishing Group.

He is a member of the International Committee on Pressuremeter (ICP), of the Italian Geotechnical Association (AGI) and of the National Group of Geotechnical Engineering (GNIG).