

CURRICULUM VITAE ET STUDIORUM - CLAUDIO MANCUSO

Claudio Mancuso was born in Naples (Italy) on May 22nd 1960. He took the degree of Civil Engineer on 1987 with full graduation marks and honours and held research cooperation contracts at the Department of Geotechnical Engineering of the University of Naples Federico II (UNINA) during 1987 and 1988. On 1989, C. Mancuso won a position of doctoral student of the Doctorate in Geotechnical Engineering of the consortium between UNINA and University of Rome "La Sapienza" (Italy). On 1990, during his doctoral studies, he developed period of research in the United States, where he was appointed as Visiting Scholar - Research Engineer at the Department of Civil Engineering of the University of Texas at Austin (USA) under the supervision of Prof. K. H. Stokoe. On 1992 C. Mancuso took the degree of Research Doctor in Geotechnical Engineering at the University of Rome "La Sapienza" defending the final dissertation "Misura in sito delle proprietà dei terreni mediante prove dinamiche" (i.e., In-situ measurements of soil properties through dynamic tests) against a national Italian Commission.

On 1992 C. Mancuso got a permanent position as Researcher at the Department of Geotechnical Engineering, and in 1995 was confirmed in the mentioned role as Senior Researcher. In 2001 he was appointed as Associate Professor at the same Department and in 2005 was confirmed in the mentioned academic position. Later in the same year, he was appointed Professor at the Department of Geotechnical Engineering. Finally, in 2008 C. Mancuso was designated as Full Professor at the Department of Hydraulic, Geotechnical and Environmental Engineering (DHGEE), institution resulting from the fusion of the departments for Geotechnics and Hydraulics of UNINA.

From 2008 to 2012 C. Mancuso has been Director of the Department of Hydraulic, Geotechnical and Environmental Engineering. From April 2015 to November 2020, he was Deputy Director of the Department of Civil, Building and Environmental Engineering of UNINA, institution stemming from the fusion of DHGEE and other departments of the scientific areas of Buildings and City Planning of UNINA. In the period May-October 2020 C. Mancuso has been acting Director of Department of Civil, Building and Environmental Engineering at UNINA.

From 2001 to 2006 C. Mancuso has been member of the Council of the Research Doctorate in Seismic Risk at UNINA, and from 2006 to 2009 of the Doctorate in Engineering Constructions. From 2009 to 2013 he was Coordinator of the Doctorate in Geotechnical Engineering of the University of Naples Federico II. From 2012 to 2013 he was Coordinator of the School of Doctorate in Civil Engineering at UNINA. Finally, up to 2021 he was member of the Doctorate in Structural, Geotechnical and Seismic Engineering at the University of Naples Federico II.

C. Mancuso has a broad expertise in management within institutions for the education of under-graduated and post-graduate students. He supervised a number of graduation and doctoral theses and directed the activities of Erasmus students.

At UNINA, C. Mancuso was coordinator (from 2004 to 2007 chairman) of the I level Degree Course in Civil Engineering for the Sustainable Development and of the Master Level Degree Course in Structural and Geotechnical Engineering. He has been member of the Committee for Didactics in Civil Engineering and of the Headmastership Council of the Degree Course in Civil Engineering. Since 2012 to June 2019, he was Chairman of the degree in Civil Engineering at UNINA.

Starting from 1999 C. Mancuso is one of the Italian Representatives (up to 2010 Core Member) of the Technical Committee n. 6 (Unsaturated Soils) of the International Society for Soil Mechanics and Geotechnical Engineering (committee nowadays listed as TC 106 by the ISSMGE). He was a member of the Scientific Committee and actively cooperated in the organisation of several national and international workshops and conferences. C. Mancuso was chairman and responsible of the organisation of the II European Conference on Unsaturated Soils held in Naples (Italy) on 20-22 June 2012.

C. Mancuso participated in several national research projects with the 'CNR', the 'Ministero dei Beni Culturali' and the 'Servizio Dighe'. He supervised and developed research activities for the 'Regione Campania', the 'Comune di Napoli' and the 'Magistrato per il Po'. C. Mancuso has been Scientist in Charge at UNINA within the framework of the Marie Curie Research Training Network MUSE (Mechanics of Unsaturated soil for Engineering), between UNINA and several recognised institutions across Europe, and was Scientist in Charge at the UNINA for international based grants funded by the European Commission. C. Mancuso has supervised the activity of non-Italian students coming to Naples from several foreign countries. Since September 2019 C. Mancuso is Principal Investigator of the PRIN2017 project titled "Risk Assessment of Earth Dams and River Embankment to Earthquakes and Floods" (prot. 2017YPMBWJ) among UNINA and the universities of Padova, Ferrara, Bologna, Roma La Sapienza and Messina.

The main areas of research activities of C. Mancuso are: (a) the development of equipment and testing procedures for in-situ and laboratory characterisation of the mechanical response of soils in the small-to-medium and in the large strain ranges; (b) theoretical studies on saturated and unsaturated soil mechanics; (c) the development of prototype experimental devices and procedures for the study of the small, medium and large strain behaviour of soils in suction controlled conditions; (d) theoretical and experimental studies on the behaviour of several soils in saturated and unsaturated conditions; (e) the use of the experimental results for the analysis of static and dynamic boundary value problems.

C. Mancuso appears as author of several papers published on international journals, of scientific books and chapters of scientific volumes, of a number of papers published on the proceedings of national and international conferences and of a several of contributions to meetings of the Italian researchers in geotechnical engineering. He has been co-editor of 4 internationally diffused scientific publications.

C. Mancuso has been one of the five members of the Italian Commission for the habitation of candidates to associate professorship and the full professorship within the Italian universities (ASN) for the Scientific Sector ICAR/07-Geotecnica (rounds 2012 and 2013).

At the present date, the main SCOPUS bibliometric indices are:

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Below follows a list of selected publications.

Naples 20 December 2021

SELECTION of PUBLICATIONS

1. COSTIGLIOLA R. M., MANCUSO C., PAGANO L., SILVESTRI F.; Prediction of Permanent Settlements of an Upstream Faced Earth Dam; 2022; Elsevier Ltd., Computers and Geotechnics, vol. 144
2. VENTINI R., LIRER S., MANCUSO C., FLORA A.; Simplified Procedure to Identify the Critical State Line of Crushable Rockfills; 2021; Journal of Geotechnical and Geoenvironmental Engineering (ASCE), 147(12) [https://doi.org/10.1061/\(ASCE\)GT.1943-5606.0002668](https://doi.org/10.1061/(ASCE)GT.1943-5606.0002668)
3. VENTINI, R.; FLORA, A.; LIRER, S.; MANCUSO, C.; CAMMAROTA, A.; An experimental study of the behaviour of two rockfills accounting for the effects of degree of saturation; 2020; EDP Sciences; Contributo in Atti di Convegno; 2-s2.0-85097149985; E3S WEB OF CONFERENCES; 195
4. VENTINI, R.; FLORA, A.; LIRER, S.; MANCUSO, C.; Magnetic measurement system of sandy gravel specimens shape during tests in a large triaxial apparatus; 2019; 978-275989064-4; EDP Sciences; Contributo in Atti di Convegno; 92; E3S Web of Conferences
5. COSTIGLIOLA, R. M.; MANCUSO, C.; PAGANO, L.; SILVESTRI, F.; Seismic safety evaluation of an existing bituminous faced rockfill dam; 2019; 978-0-367-14328-2, 978-0-429-03127-4; Taylor & Francis Group; London; Contributo in Atti di Convegno; Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions
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8. RUSSO, G.; REZZA, A.; MANCUSO, C.; OLIVIERO, V.; D'ONZA, F.; GALLIPOLI, D.; WHEELER, S.; Microstructure analysis of laboratory and in-situ compacted silts; 2016; E3S Web of Conferences; Contributo in Atti di Convegno; WOS:000387533300083; 2-s2.0-85013673438; E-UNSAT 2016, Proceedings of the 3rd European Conference on Unsaturated Soils - Frontiers in Unsaturated Soils
9. D'ONZA, FRANCESCA; OLIVIERO, VINCENZO; GALLIPOLI, DOMENICO; MANCUSO, CLAUDIO; WHEELER, SIMON J.; Effect of in situ and laboratory compaction on the retention behaviour of a clayey soil; 2016; E3S Web of Conferences; Contributo in Atti di Convegno; WOS:000387533300083; 2-s2.0-85013673438; E-UNSAT 2016, Proceedings of the 3rd European Conference on Unsaturated Soils - Frontiers in Unsaturated Soils
10. DOMENICO, GALLIPOLI; A. WALTER, BRUNO; D'ONZA, FRANCESCA; MANCUSO, CLAUDIO; A bounding surface hysteretic water retention model for deformable soils; 2015; Contributo su Rivista; WOS:000364135800001; 2-s2.0-84942933385; GEOTECHNIQUE; 65(10)
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22. J.C. ROJAS; C. MANCUSO; D. DANESI; Pre- and post-construction characterization of an embankment fill material; 2010; 9780415804806; CRC Press - Taylor & Francis Group, Balkema; Contributo in Atti di Convegno; Experimental Studies in Unsaturated Soils and Expansive Soils
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24. C. MANCUSO; L. OLIVARES; Un laboratorio integrato finalizzato allo studio delle colate di fango in terreni piroclastici: apparecchiature, procedure sperimentali ed esempi di misure - CAPITOLO 5; 2009; 9788889972151; DoppiaVoce; Contributo in Volume; un laboratorio integrato finalizzato allo studio delle colate di fango in terreni piroclastici
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27. PAGANO L.; MANCUSO C.; SICA S.; Characterization of soil properties of an earth dam by in situ tests; 2009; 9780415556149; CRC Press/Balkema - Taylor & Francis Group; Contributo in Atti di Convegno; Performance-Based Design in Earthquake Geotechnical Engineering — From Case History to Practice
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30. F. CASINI; R. VASSALLO; C. MANCUSO; A. DESIDERI; Application to a compacted soil of a Cam Clay model extended to unsaturated conditions; 2008; 9780415476928; Crc Press - Taylor & Francis Group; London; Contributo in Atti di Convegno; Unsaturated soils - advances in geo-engineering
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34. J. C., ROJAS; PAGANO, LUCA; ZINGARIELLO, MARIA CLAUDIA; MANCUSO, CLAUDIO; G., GIORDANO; G., PASSEGGIO; A new high capacity tensiometer: first results; 2008; 9780415476928; CRC Press - Taylor & Francis Group; London; Contributo in Atti di Convegno; WOS:000268178300023; 2-s2.0-79952287157; Unsaturated soils - advances in geo-engineering
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