CURRICULUM VITAE

Ph.D. EMILIA DAMIANO

SEPTEMBER 2023

I - GENERAL INFORMATION

Name: Emilia Damiano

Place and date of birth: Caserta, 7.11.1972

Position: Assistant Professor in Geotechnics, University of Campania "L. Vanvitelli", Italy

II - EDUCATION

2014 *National Scientific Qualification as Associate Professor* in Italian University in the scientific sector "Geotechnics"

2004 *Ph.D. in Geotechnical Engineering,* Consortium of University of Naples "Federico II", Second University of Naples and University of Rome "La Sapienza", Italy. Thesis Dissertation on "Triggering mechanisms of flowslides in pyroclastic soils"

2000 *Master's degree in Civil Engineering*, Second University of Naples, Italy. Thesis dissertation on "Behaviour of piles under axial loading: forecasting and design criteria"

III – PROFESSIONAL EMPLOYMENT

2019 to date *Assistant Professor* in Geotechnics, University of Campania "L. Vanvitelli", Department of Engineering, Aversa, Italy

2016-19 *Researcher*, University of Campania "L. Vanvitelli", Department of Engineering, Aversa, Italy

2015 *Research Grant* at A.M.R.A. S.c.ar.l. (Naples, Italy) in the framework of the Project "Metropolis" funded by Campania Region mis. PON03PE_00093_4

2013-2014 *Research Grant*, University of Campania "L. Vanvitelli", DIcDEA, Aversa, Italy

2013 *Research Grant* at A.M.R.A. S.c.ar.l. (Naples, Italy) for evaluation of strategies of landslide risk mitigation for the city of Cuenca, Ecuador - Project "Servicios de consultoria para el plan de gestion de riesgos para los sistemas de agua potable y alcantarillado de la ciudad de Cuenca"

2011-2012 *Research Grant (10 months)* at A.M.R.A. S.c.ar.l. in the framework of the International Project "SafeLand - Living with landslide risk in Europe: Assessment, effects of global change, and risk management strategies" for development of innovative tools and technologies for early-warning systems for rapid landslides

2009-2010 *Research Grant (6 months)* at A.M.R.A. S.c.ar.l. in the framework of the International Project "SafeLand - Living with landslide risk in Europe: Assessment, effects of global change, and risk management strategies" for "analysis of the effects of climate change on landslides triggering"

2009 *Research Grant (6 months)* at C.M.C.C. (Euro-Mediterranean Centre for Climatic Change, Lecce, Italy) for simulations of the effects of climatic changes on stability of pyroclastic covers

2007-2008 *Research Grant (18 months)*, Second University of Naples, Department of Civil Engineering, Italy

2007 *Research Grant* at C.M.C.C. for evaluation of the role of precipitation on the triggering of landslides in Campania

2004 *Research Grant,* Second University of Naples, Department of Civil Engineering, Italy

IV – OTHER ACTIVITIES

2020 to date Teacher of the course "Environmental Geotechnics" for the master's degrees in Civil Engineering and in Energy and Environmental Engineering at the University of Campania "L. Vanvitelli", Italy;

2021 to date Teacher of the course "Geotechnical works and systems" for the degree in Civil-Building-Environmental Engineering at the University of Campania "L. Vanvitelli", Italy;

2020 Teacher of the course "Fundamentals of Geotechnics" for the degree in Civil-Building-Environmental Engineering at the University of Campania "L. Vanvitelli", Italy;

2016 to 2019 Teacher of the course "Geotechnics and Foundations" for the degree in Civil-Building-Environmental Engineering at the University of Campania "L. Vanvitelli", Italy;

2017 *Invited lecturer* at the "1^ JTC1 Workshop on Physical processes and mechanisms of precipitation-induced landslides", Barcelona, May 2017.

2017 to date *Member of the Teachers Committee for Philosophical Doctor courses* in Environmental, Design and Innovation, University of Campania "L. Vanvitelli", Italy

2013 *Teacher of the course "Geotechnical Engineering for Environmental Reclaims"* - Master of II Level in "Analysis and Reclamation Techniques for Contaminated Sites" A.A. 2012/2013 Second University of Naples,

2011 *Invited lecturer* at the "The Second World Landslide Forum", for Panel lecture "Potential effects of climate change on slope stability in unsaturated pyroclastic soils", Rome, October 2011

2011 *Convener* of the European Geosciences Union General Assembly 2011 (EGU2011) session "Landslide hydrology: from hillslope hydrology to landslide understanding", Wien, 03-08 April.

2005 *Teacher of the course "Geotechnical investigations and characterization II"* - project "Campus Campania" (POR Campania 2000-2006 D.G.R. n.147 of 12.03.04 mis. 3.7)

from 2006 *Peer Reviewer for many international journals* among which "Geotechnical Testing Journal ASTM", "Landslides", "Natural Hazards and Earth System Sciences", "Soils and Foundations", "Canadian Geotechnical Journal", "Geosciences", "Engineering Geology"

from 2004 *Member of Organizing and Scientific Committes* of national and international conferences among which ISL (International Symposium on Landslides) in 2016, IWL (International Workshop on Landslides) in 2011, 2013, 2018, MSL (Mediterranean Symposium on Landslides) in 2020, 2022, IARG 2022

Since the beginning of her academic career, she carried out an intense educational activity in the Bachelor's and Master's degree programs. From 2017 she is *Member of the Teachers Committee for Philosophical Doctor* courses in Environmental, Design and Innovation, University of Campania "L. Vanvitelli" co-tutoring the PhD thesis "Modeling hydrological processes affecting rainfall-induced landslides in granular covers for the development of EWS" by P. Marino. She was Teacher of lessons and short courses within PhD courses organized by national and international institutes among which University of Campania, GNIG (Geotechnical engineering national group), IRALL (International Research Association on Large Landslides) School 2020-21 China.

V - AWARDS

2013 *1st Hutchinson Lecture* - international award given to a scholar, aged 42 or less, who has significantly contributed to the development of knowledge in the field of slope stability and

landslides selected by the International Committee on Landslides JTC1 (the Joint Technical Committee on Natural Slopes and Landslides).

VI - RESEARCH ACTIVITIES

Topics: unsaturated soil mechanics, triggering mechanisms of fast slope movements, in situ monitoring devices and techniques, physical modelling.

During her years of activities, she focused her research on: unconventional experimental testing techniques for geotechnical laboratory; mechanical characterization of unsaturated and saturated granular soils; investigation of hydrological processes in natural covers; investigation of failure and post-failure mechanisms of flowslides in pyroclastic shallow deposits; development of early-warning systems for fast landslides also by testing new sensors and technologies. During the first years of research activities, she designed and built an instrumented flume apparatus to reproduce and investigate rainfall-induced slope failure in initially unsaturated granular soils. The use of physical modelling allowed verifying the occurrence of a static liquefaction phenomenon as triggering mechanism of flowslides generation and investigating the main factors which govern the soil behaviour at failure. The flume apparatus has been also utilized to test new instruments to be used in site for early alerting of landslide occurrence. In particular, the use of distributed optical fiber sensors for detection of mechanisms of volumetric collapse and soil cracking leading to slope failure has been tested. She also investigated the infiltration and evapotranspiration processes in saturated and unsaturated natural covers through in situ monitoring and numerical analysis. More recently, she focused her research activities on how the soil layering may affect the infiltration process thus, influencing slope failure triggering. Another aspect of her research is devoted to analyse the effects of climatic changes, with particular reference to the precipitation patterns, on slope stability.

She is author/co-author of several original papers on international scientific journals, invited papers and national and international conference proceedings.

VII SCIENTIFIC PUBBLICATIONS

INTERNATIONAL JOURNALS

1. Picarelli L., Olivares L., Damiano E. (2006). Discussion of the papers “Evaluation of landslide triggering mechanisms in model fill slopes” by W.A. Take, M.D. Bolton, P.C.P. Wong and F.J. Yeung and “Fluidized landslide on a natural slope by artificial landslide” by H. Ochiai, Y. Okada, G. Furuya, Y. Okura, T. Matsui, T. Sammori, T. Terajima and K. Sassa, LANDSLIDES, Springer Berlin / Heidelberg, 3(3):269-273, doi:10.1007/s10346-006-0041-4.

2. Olivares L. & Damiano E. (2007). Post-failure mechanics of landslides: laboratory investigation of flowslides in pyroclastic soils. JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING © ASCE, Reston; ISSN 1090-0241; 133(1):51-62, doi:10.1061/(ASCE)1090-0241(2007)133:1(51).

3. Picarelli L., Olivares L., Comegna L., Damiano E. (2008). Mechanical aspects of flow-like movements in granular and fine-grained soils. ROCK MECHANICS AND ROCK ENGINEERING, Springer Wien; ISSN 0723-2632; 41(1):179-197, doi:10.1007/s00603-007-0135x.

4. Olivares L., Damiano E., Greco R., Zeni L., Picarelli L., Minardo A., Guida A., Bernini R. (2009). An instrumented flume to investigate the mechanics of rainfall-induced landslides in unsaturated granular soils. ASTM GEOTECHNICAL TESTING JOURNAL, ISSN 0149-6115, 32(2):1–11, doi:10.1520/GTJ101366.

5. Damiano E., Olivares L. (2010). The role of infiltration processes in steep slopes stability of pyroclastic granular soils: laboratory and numerical investigation. NATURAL HAZARDS, Journal of the Inter. Society for

the Prevention and Mitigation of Natural Hazards; Springer Netherlands; ISSN 0921-030X, 52(2):329-350, doi:10.1007/s11069-009-9374-3.

6. Greco R., Guida A., Damiano E., Olivares L. (2010). Soil water content and suction monitoring in model slopes for shallow flowslides early warning applications. PHYSICS AND CHEMISTRY OF THE EARTH; Elsevier Ltd. ISSN 1474-7065, 35:127-136, doi:10.1016/j.pce.2009.12.003.
7. Damiano E., Mercogliano P., Netti N., Olivares L. (2012). A “simulation chain” to define a Multidisciplinary Decision Support System for landslide risk management in pyroclastic soils. NATURAL HAZARDS AND EARTH SYSTEM SCIENCES. 12, 989–1008, doi:10.5194/nhess-12-989-2012
8. Damiano E., Olivares L., Picarelli L. (2012). Steep-slope monitoring in unsaturated pyroclastic soils. ENGINEERING GEOLOGY, 137–138:pp.1-12, doi:10.1016/j.enggeo.2012.03.002
9. Pirone M., Damiano E., Picarelli L., Olivares L., Urciuoli G.(2012). Groundwater-atmosphere interaction in unsaturated pyroclastic slopes at two sites in Italy. RIVISTA ITALIANA DI GEOTECNICA, 3/2012: pp.29-49
10. Netti N., Damiano E., Greco R., Mercogliano P., Olivares L., Savastano V. (2012). Natural Hazard Risk Management: a Multidisciplinary Approach to Define a decision Support System for Shallow Rainfall-Induced Landslides. THE OPEN HYDROLOGY JOURNAL, 6 - ISSN 1874-3781.
11. Greco R., Comegna L., Damiano E., Guida A., Olivares L., Picarelli L. (2013). Hydrological modelling of a slope covered with shallow pyroclastic deposits from field monitoring data. Hydrology and Earth System Sciences Discussions, 10, 1-32.
12. Olivares L., Damiano E., Mercogliano P., Manzi M., Picarelli L., Savastano V., Cotroneo F., Schiano P. (2014). A "simulation chain" for early prediction of rainfall-induced landslides. Landslides 11, 765-777. https://doi.org/10.1007/s10346-013-0430-4
13. Picarelli L., Damiano E., Greco R., Minardo A., Olivares L., Zeni L. (2015). Performance of slope behavior indicators in unsaturated pyroclastic soils. JOURNAL OF MOUNTAIN SCIENCE, 12(6): 1434-144, ISSN: 1672-6316 doi: 10.1007/s11629-014-3104-3
14. Comegna L., Damiano E., Greco R., Guida A., Olivares L., Picarelli L. (2016). Field hydrological monitoring of a sloping shallow pyroclastic deposit. CAN. GEOT. J., 53(7): 1125-1137, ISSN 0008-3674, doi: 10.1139/cgj-2015-0344
15. Damiano E., Greco R., Guida A., Olivares L., Picarelli L. (2017). Investigation on rainwater infiltration into layered shallow covers in pyroclastic soils and its effect on slope stability. ENGINEERING GEOLOGY, 220: 208-218, doi: 10.1016/j.enggeo.2017.02.006
16. Damiano E., Avolio B., Minardo A., Olivares L., Picarelli L., Zeni L. (2017). A laboratory Study on the Use of Optical Fibers for Early Detection of Pre-Failure Slope Movements in Shallow Granular Soil Deposits. GEOTECHNICAL TESTING JOURNAL, 40(4): 529-541, doi: 10.1520/GTJ20160107
17. Damiano E. (2019). The effects of layering on triggering mechanisms of rainfall-induced landslides in unsaturated pyroclastic granular soils. CANADIAN GEOTECHNICAL JOURNAL. ISSN: 0008-3674, doi: 10.1139/cgj-2018-0040
18. Greco R., Marino P., Santonastaso G.F., Damiano E. (2018). Interaction between perched epikarst aquifer and unsaturated soil cover in the initiation of shallow landslides in pyroclastic soils. WATER, 10, 948; doi:10.3390/w10070948
19. Darban R., Damiano E., Minardo A., Olivares L., Picarelli L., Zeni L. (2019). An Experimental Investigation on the Progressive Failure of Unsaturated Granular Slopes. GEOSCIENCES, vol. 9, p. 1-14, ISSN: 2076-3263, doi: 10.3390/geosciences9020063
20. Olivares L., Damiano E., Netti N., De Cristofaro M. (2019). Geotechnical Properties of Two Pyroclastic Deposits Involved in Catastrophic Flowslides for Implementation in Early Warning Systems. GEOSCIENCES, vol. 9, p. 1-18, ISSN: 2076-3263, doi: 10.3390/geosciences9010024
21. Capparelli G., Damiano E., Greco R., Olivares L., Spolverino, G. (2020). Physical modeling investigation of rainfall infiltration in steep layered volcanoclastic slopes. JOURNAL OF HYDROLOGY, 580, 124199. https://doi.org/10.1016/j.jhydrol.2019.124199
22. Picarelli L., Olivares L., Lampitiello S., Darban R., Damiano E. (2020). The Undrained Behaviour of an Air-Fall Volcanic Ash. GEOSCIENCES, vol. 10, 60. doi:10.3390/geosciences10020060

23. Picarelli, L., Olivares, L., Damiano, E., Darban, R., Santo A. (2020). The effects of extreme precipitations on landslide hazard in the pyroclastic deposits of Campania Region: a review. LANDSLIDES. https://doi.org/10.1007/s10346-020-01423-5
24. Minutolo, V., Cerri, E., Coscetta, A., Damiano, E., De Cristofaro, M., Di Gennaro, L., Esposito, L., Ferla, P., Mirabile, M., Olivares, L., Zona, R. (2020). NSHT: New Smart Hybrid Transducer for Structural and Geotechnical Applications. APPLIED SCIENCES, vol. 10, ISSN: 2076-3417, doi: 10.3390/app10134498
25. Marino P., Comegna L., Damiano E., Olivares L., Greco R. (2020). Monitoring the hydrological balance of a landslide-prone slope covered by pyroclastic deposits over limestone fractured bedrock. WATER, vol. 12, ISSN: 2073-4441, doi: 10.3390/w12123309
26. Luca Comegna, Emilia Damiano, Roberto Greco, Lucio Olivares, Luciano Picarelli (2021). The hysteretic response of a shallow pyroclastic deposit. EARTH SYSTEM SCIENCE DATA, vol. 13, p. 2541-2553, ISSN: 1866-3508, doi: 10.5194/essd-13-2541-2021
27. Greco R., Comegna L., Damiano E., Marino P., Olivares L., Santonastaso G. F. (2021). Recurrent rainfall-induced landslides on the slopes with pyroclastic cover of Partenio Mountains (Campania, Italy): Comparison of 1999 and 2019 events. ENGINEERING GEOLOGY, vol. 288, ISSN: 0013-7952, doi: 10.1016/j.enggeo.2021.106160
28. Minardo A., Zeni L., Coscetta A., Catalano E., Zeni G., Damiano E., De Cristofaro M., Olivares L. (2021). Distributed optical fiber sensor applications in geotechnical monitoring. SENSORS, vol. 21, ISSN: 1424-8220, doi: 10.3390/s21227514
29. Di Gennaro L., Damiano E., De Cristofaro M., Netti N., Olivares L., Zona R., Iavazzo L., Coscetta A., Mirabile M., Giarrusso G., D'Ettore A., Minutolo V. (2022). An innovative geotechnical and structural monitoring system based on the use of NSHT. SMART MATERIALS AND STRUCTURES, ISSN: 0964-1726, doi: 10.1088/1361-665x/ac5fc6
30. Damiano E., De Cristofaro M., Brunzo A., Carrieri G., Iavazzo L., Netti N., Olivares L. (2023). The Mechanical Characterization of Pyroclastic Deposits for Landslide Early Warning Systems. GEOSCIENCES 13, 291, doi.org/10.3390/geosciences13100291

INVITED PAPERS

31. Olivares L. & E. Damiano (2004). Post-failure mechanics of landslides - Flowslides in pyroclastic soils. IX International symposium on Ladslides - Rio De Janeiro. A.A.Balkema, Nederland/Taylor & Francis Group, London/printed in Nederland. ISBN 04-1535-665-2 V.2:1343-1354.
32. Picarelli L., Versace P., Olivares L., Damiano E. (2007). Prediction of rainfall-induced landslides in unsaturated granular soils for setting up of early warning systems. Proc. 2007 Int. Forum on Landslide Disaster Management, Hong Kong. Ho & Li (Eds.) ISBN 978-962-7619-29-1 V.1:643-665.
33. Damiano E., Mercogliano P. (2013). Potential effects of climate change on slope stability in unsaturated pyroclastic soils. In Book Series "Landslide Science and Practice", Vol. 4 "Global Environmental Change" - Margottini C., Canuti P., Sassa K. (Eds), Springer Verlag; 2013, X, pp.499. ISBN: 978-3-642-31336-3. *Second World Landslide Forum, Rome 3-9 October 2011.*
34. Picarelli L., Olivares L., Damiano E., Comegna L., Greco R., Mercogliano P., Zeni L. (2012). Short-term prediction of rainfall-induced flow-like landslides in unsaturated granular soils. Conferencia Inaugural, IV Simposio Panamericano de Deslizamientos "Vulnerabilidad y Gestiòn del Riesgo en Centro y Sur America", Paipa, Colombia, 31 de Octubre - 2 de Noviembre 2102.
35. Picarelli L., Damiano E. (2014). Fast shallow precipitation-induced landslides. An increasing threat for society and challenge for geoscientists. International Workshop on Extreme Rainfall Induced Landslides, Rio de Janeiro, February 11 to 15, 2012.
36. Damiano E. (2017). Effects of layering on the hydrological and mechanical response of unsaturated granular sloping covers. First International JTC1 Workshop on "Advances in Landslide Understanding", Barcelona 24-26 May 2017.
37. Picarelli L., Comegna L., Damiano E., Olivares L., Urciuoli G. (2021). Hydro-mechanical slope response to weather impact. SCG-XIII Int. Symp. On Landslides, Cartagena, Colombia, February 2021

PROCEEDINGS CONFERENCES

38. Olivares L., L. Picarelli, L. Andreozzi, B. Avolio, E. Damiano, S. Lampitiello (2002). Scenari di pericolosità di frana in terreni sciolti di natura piroclastica. XXI Convegno Nazionale di Geotecnica L'Aquila- Opere Geotecniche in Ambiente Urbano, 11-13 Settembre 2002; Pàtron Editore – Bologna ISBN 88-555-2663-4; 1:173-182.

39. Olivares L., L. Andreozzi, E. Damiano, B. Avolio, L. Picarelli (2003). Hydrologic response of a steep slope in unsatured pyroclastic soils. Int. Conf. on Fast Slope Movements-Prediction and Prevention for Risk Mitigation IC-FSM2003, Napoli, May, 11-13, 2003. Pàtron Editore – Bologna ISBN 88-555-2699-5; 1:391-398.

40. Olivares L., E. Damiano, L. Picarelli (2003). Wetting and flume tests on a volcanic ash. Int. Conf. on Fast Slope Movements-Prediction and Prevention for Risk Mitigation IC-FSM2003, Napoli, May, 11-13, 2003. Pàtron Editore – Bologna ISBN 88-555-2699-5; 1:399-404.

41. Picarelli L., L. Olivares, L. Andreozzi, E. Damiano, S. Lampitiello (2004). A research on rainfall-induced flowslides in unsaturated soils of pyroclastic origin. IX International Symposium on Landslides, Rio De Janeiro. Swets & Zeitlinger, Lisse A.A.Balkema. Rotterdam. ISBN 04-1535-665-2 V.2:1497-1503.

42. Olivares L., L. Picarelli, L. Andreozzi, E. Damiano, S. Lampitiello (2004). Meccanismi di innesco delle colate di fango in terreni piroclastici sciolti: il caso di Cervinara. Convivere con le frane effetti sulle infrastrutture ed insediamenti urbani; strategie di intervento per la mitigazione del rischio, Anacapri (NA). L. Picarelli Editor; 1: 205-223.

43. Damiano E., Olivares L., Minardo A., Greco L, Zeni L., Picarelli L. (2008). Advanced monitoring criteria for precocious alerting of rainfall-induced landslides. Proc. X International Symposium on Ladslides and Enginneered Slopes – Xi'an - China. Swets & Zeitlinger, Lisse A.A.Balkema. Rotterdam. ISBN 978-0-415-411195-0; 2:1157-1164. *Selected Paper*.

44. Damiano E., R. Greco, A. Guida, L. Olivares e L. Picarelli (2008). Early warning of fast landslides triggering based on instrumented slope data analysis. Proc. of the iEMSs Fourth Biennial Meeting: International Congress on Environmental Modelling and Software (iEMSs 2008). International Environmental Modelling and Software Society, Barcelona, Catalonia, July 2008; ISBN 978-84-7653-074-0 3;1461-1468. *Selected Paper*.

45. Comegna L., Guida A., Damiano E., Olivares L., Greco R., Picarelli L. (2011). Monitoraggio di un pendio naturale in depositi piroclastici sciolti. Proc. of the XXIV Convegno Nazionale di Geotecnica – 22-24 Giugno 2011, Napoli

46. Damiano E., Avolio B., Olivares L., Picarelli L., Bernini R., Minardo A., Zeni L. (2011). Rilievo tramite fibre ottiche delle deformazioni pre-rottura di pendii soggetti a frane rapide. Proc. of the XXIV Convegno Nazionale di Geotecnica – 22-24 Giugno 2011, Napoli

47. Guida A., Comegna L., Damiano E., Greco R., Olivares L., Picarelli L. (2012). Soil characterization from monitoring of a steep slope in layered granular volcanic deposits. Proc. of the "Second Italian Workshop on Landslides", Naples, 28-30 September 2011 AA.VV. Edizioni Cues, Fisciano (SA), ottobre 2012 – ISBN 978-88-97821-09-0 pp. 147:153

48. Pirone M., Urciuoli G., Damiano E., Olivares L., Picarelli L. (2012). Suction fluctuations in unsaturated slopes: evidences from two test sites in Southern Italy. Proc. of the Conference: "Unsaturated Soils: Research and Applications", Eds.C. Mancuso, C. Jommi, F. D'Onza, Springer; ISBN 978-3-642-31342-4

49. Mercogliano P., Casagli N., Catani F., Damiano E., Olivares L., Picarelli L., Rossi G., Schiano P., Segoni S., Sikorski B., Tofani V. (2013). Short term weather forecasting for shallow landslide prediction. Proc. Int. Symp. "The Second World Landslide Forum" Rome 3-9 October 2011. In Book Series "Landslide Science and Practice", Margottini C., Canuti P., Sassa K. (Eds), Springer Verlag; 2013, X, in press.

50. Damiano E., Avolio B., Bernini R., Minardo A., Olivares L., Picarelli L., Zeni L. (2013). Use of optical fibers for early monitoring of fast landslide triggering. Proc. of the First Int. Conf. on "Landslide Risk", Tabarka, March 14th – 16th, 2013.

51. Comegna L., Damiano E., Greco R., Guida A., Olivares L., Picarelli L. (2013). Effects of the vegetation on the hydrological behavior of a loose pyroclastic deposit. Proc. Int. Conf. on "Four Decades of Progress in Monitoring and Modeling of Processes in the Soil-Plant-Atmosphere System: Applications and Challenge". Naples, 19-21 June 2013.

52. Greco R., Comegna L., Damiano E., Guida A., Olivares L., Picarelli L. (2014). Conceptual hydrological modeling of the soil-bedrock interface at the bottom of the pyroclastic cover of Cervinara (Italy). Proc. III Italian Work. on Landslides: Naples, 23-24 October 2013 Procedia Earth and Planetary Science 9 (2014) 122–131. doi: 10.1016/j.proeps.2014.06.007
53. Minardo A., Damiano E., Olivares L., Picarelli L., Zeni L., Avolio B., Coscetta A. (2015). Soil slope monitoring by use of a Brillouin distributed sensor. in Fotonica AEIT Italian Conference on Photonics Technologies 2015, pp.1-4, 6-8 May 2015 doi: 10.1049/cp.2015.0156
54. Damiano E., Greco R., Guida A., Olivares L., Picarelli L. (2015). An investigation of infiltration and deformation processes in layered small-scale slopes in pyroclastic soils. In Rotonda et al. (eds) 2016, pp. 319-326 Taylor & Francis Group, London, ISBN 978-1-138-02886-9. Proc. of the International Workshop on "Volcanic Rocks and Soils", Ischia 24-25 September 2015
55. Comegna L., Damiano E., Greco R., Guida A., Olivares L., Picarelli L. (2015). Apparent hydraulic hysteresis of a pyroclastic deposit. In Rotonda et al. (eds) 2016, pp. 313-317 Taylor & Francis Group, London, ISBN 978-1-138-02886-9. Proc. of the International Workshop on "Volcanic Rocks and Soils", Ischia 24-25 September 2015
56. Comegna L., Damiano E. (2016). Influence of the antecedent long-term precipitations on the initial conditions of a sloping pyroclastic deposit. Proc. IV Italian Work. On Landslides: Naples 23-25 November 2015, Procedia Earth and Planetary Science, in press
57. Comegna L., Damiano E., Greco R., Guida A., Olivares L., Picarelli L. (2016). Considerations on the Cervinara slope failure. In Landslides and Engineered Slopes. Experience, Theory and Practice – Aversa et al. (Eds.) 2016, pp.663-670, Rome ISBN: 978-1-138-02988-0. Proc. of the XII International Symposium on Landslides: Naples 12-19 June 2016
58. Greco R., Comegna L., Damiano E., Guida A. (2017). Investigation on the hydraulic parameters affecting shallow landslide triggering in a pyroclastic slope. Proc. of the 4th World Landslide Forum, Ljubljana, 1 - 5 May 2017
59. G Capparelli, G Spolverino, E Damiano, R Greco, L Olivares (2018). Physical model study of the infiltration processes in pyroclastic slopes subject to instability. GEOPHYSICAL RESEARCH ABSTRACTS, vol. 20, ISSN: 1607-7962
60. E. Damiano, R. Darban, M. De Cristofaro, A. Minardo, L. Olivares, L. Picarelli, L. Zeni (2018). Early detection of pre-failure slope deformations in granular soils by using fiber sensing technique. GEOPHYSICAL RESEARCH ABSTRACTS, ISSN: 1607-7962
61. Darban, R., Damiano, E., Minardo, A., Olivares, L., Zhang, Lei, Zeni, L., Picarelli, L. (2018). An Investigation on the Effects of Rainwater Infiltration in Granular Unsaturated Soils Through Small-Scale Laboratory Experiments. In: (a cura di): Wei Wu Hai-Sui Yu, Proceedings of China-Europe Conference on Geotechnical Engineering. vol. 1, p. 648-652, Springer, Cham, ISBN: 978-3-319-97111-7, Vienna, 13-16 August 201, doi: 10.1007/978-3-319-97112-4_145
62. Comegna L., Damiano E., Greco R., Marino P., Olivares L., Picarelli L. (2018). Monitoraggio di campo di un pendio soggetto a fenomeni di colata rapida di fango. In: Atti del XXXVI Convegno Nazionale di Idraulica e costruzioni Idrauliche. Ancona, Settembre 2018
63. Damiano E., Comegna L., Greco R., Marino P., Olivares L., Picarelli L. (2019). Field hydrometeorological monitoring of a slope covered with shallow pyroclastic deposits. GEOPHYSICAL RESEARCH ABSTRACTS, Vol. 21, EGU2019-4917-2, 2019
64. Damiano E., Darban R., Olivares L., Picarelli L. (2020). An investigation on progressive failure in granular slopes leading to flow-like landslides. In Proc. SCG-XIII INTERNATIONAL SYMPOSIUM ON LANDSLIDES. Cartagena, Colombia, June 15th-19th-2020
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Signature