



CURRICULUM VITAE

Prof. Ing. Daniele PEILA

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Place and Date of Birth
Degree

Vercelli (Italy), 1st October, 1962
Degree in Mining Engineering, 1987 (cum laude) - Politecnico di Torino

Italian Chartered Engineering, Vercelli section (1988 - present)

Present roles

Full Professor of "Tunnelling" - Politecnico di Torino. Scientific Sector: Excavation Engineering and Safety"

Academic responsibilities

Member of the Board of the Specializing Master and Lifelong Learning School of Politecnico di Torino
Director of the Specializing Master Course "Tunnelling and Tunnel Boring Machines" , "Ingegneria e gestione integrata delle reti autostradali" e "Progettazione sostenibile di opere geotecniche e gallerie" – Politecnico di Torino

Head of the Laboratory "Tunnelling and Rock Engineering", DIATI at Politecnico di Torino
Research fellow of the Italian National Research Council (CNR) – IGAG center (since 1990)

Previous positions

Associate Professor - Politecnico di Torino (2005-2019)
Research Assistant at the Politecnico of Torino (1989-2004)
Technical Engineer at Rodio S.p.A. (Ground reinforcing Company) (1987-1988)
Technical Engineer at Follioley S.p.A.(General Construction Company) (1988-1989)

Research fields

Tunnelling (conventional and mechanized excavation, EPB tunnelling and soil conditioning, soil and rock improvement)
Surface and underground mining
Rockfall protection techniques

Professional Association offices

Italian Tunnelling Association: Vice-President (2016-present) & Executive Board Member (1998-2007 & 2010-2016)
International Tunneling and Underground space Association: Vice-President (2013-2016) & Executive Council Member (2010-2013)
Associazione Georisorse e Ambiente: Executive Board Member (2005-2012)
Technical Director: Foundation ITA-CET (2009-13)

Awards

Honorary Affiliate Member of the International Tunneling and Underground space Association (2016)

Community services

Elected Member of the City Council of Vercelli (2015-2019)

Accademic & training activities

Politecnico di Torino

MsC Courses: Tunnelling (2002– present); Ground Reinforcing (2017-present); Mining Engineering (1997-2002); Underground Construction (1999)

PhD courses: Rock-fall Protection Techniques (2006-present)

Lectures for the Specializing Master Course “Tunnelling and Tunnel Boring Machines”

Lectures for the Specializing Master Course: “Ingegneria e gestione integrata delle reti autostradali”

Lectures for the Specializing Master Course: “Progettazione sostenibile di opere geotecniche e gallerie”

Tutor of 11 PhD thesis work in Italy or Abroad and more than 100 MsC thesis at Politecnico di Torino

Publications & patents

More than 260 papers on International Journals and Congresses.

The complete list can be found at:

<http://porto.polito.it/view/creators/Peila=3ADaniele=3A001862=3A.html>

Two Italian patents on new types of rockfall protection net fences and one international patent on a EPB soil conditioning product

Lectures on Tunnelling and rockfall protection technolgies at International Universities: INSA Lyon (2011-2014); Queen’s University (Kingston, Canada) (2013); Colorado School of Mines (2010); National Technical University of Athens (2008); Swiss Federal Institute of Technology Zurich (ETH) (2006); Universitat Innsbruck (Austria) (2001-2003); Istituto di Scienze della Terra-Scuola Universitaria Professionale della Svizzera Italiana (2000); Technical University of Petrosani (Romania) (1993) and for the Specializing Master Course: “Underground Environment” (Financed by the EU Leonardo da Vinci project) involving: Politecnico di Torino, Université de Paris VII, KTH Stoccolma, Eindhoven University of Technology and Technical University of Helsinki. (1998-1999)

Lectures on Tunnelling and rockfall protection technolgies at Italian Universities: Politecnico di Milano, Rome “La Sapienza”, Bologna, Udine, Trento, Palermo, Florence, Genoa, Piemonte Orientale

Lectures for international life learning courses or key notes on Tunneling in: Salzburg (2019), Teheran (2017); Guadalajara (Mexico) (2015); Kuala Lumpur (2015); Santiago (2015); Geneve (2013); Seoul (2013); Rome (2012); Montreal (2012); Bangkok (2012); Sinliurfa (Turkey)(2012); Lyon (2012); Bern (2012); Warsaw (2011); Ljubljana (2011); Buenos Aires (2010); Vancouver (2010); Washigton (2009); Budapest (2009); Praga (2007); Istanbul (2005, 2004), Lyon (1999)

Lectures and courses for the Italian Boards of Engineers and of Geologis

Editor of scientific journals and member of editorial boards

Editor in chief: Geoingegneria Ambientale e Mineraria (GEAM) (2007-2021)

Editor: Tunnelling and Underground Space Technology (2011-2018)

Editorial Board Member: Tunnelling and Underground Space Technology; Tunnel Magazin, Czech Tunneling Society; Material and geoenvironment, RMZ – University of Ljubljana; Underground Space; Gallerie e grandi opere sotterranee; Archives of Civil Engineering – University of Warsaw

Coordinator of the Advisory Scientific Board & Member of the the Organizing Committee of the World Tunnel Congress 2019 in Naples (Italy)

Laboratory activities

Laboratory soil conditioning assessment for EPB tunnelling: metro tunnel in Rome, Milan, Turin, Catania, Naples, Warsaw, London, Lima, Los Angeles; railway tunnels: COCIV Milano and Genoa, Lonato, Avigliana; Maldonado tunnel (Argentina), High speed connection Catania-Palermo; road tunnels: Gronda of Genoa, Sparvo, Ejovice (Czech Republic), Santa Lucia and Caltanissetta and for the tunnels of the main sewer of Torino (nuovo collettore fognario di Torino).

Tests on two-component mortar for shield backfilling: Rome Metro, Bolertunnel (Germany), Turin-Lyon tunnels

Full scale tests on net fences, embankments and drapery meshes for rockfall protection

Activity for the Italian Ministry of Infrastructure and Transport and for its Consiglio Superiore and for standardization bodies

2021-22 Member of the working group of the Consiglio Superiore LL.PP. for the analysis of the project Potenziamento Orte Falconara Nuovo collegamento PM228 - Castelplanio con by-pass di Albacina - Lotto 2 Genga-Serra San Quirico;

2021 Member of the working group of the Provveditorato interregionale alle OO.PP. per la Lombardia e l'Emilia Romagna – Ministero delle Infrastrutture e dei Trasporti for the analysis of the project RFI - Reti allarmate di rilevamento a protezione dalla caduta massi sulla sede ferroviaria tra la pk 19+0100 e la pk 22+800 tratta Cisano-Calolziocorte linea Bergamo-Lecco. Progetto definitivo;

2021 Member of the working group of the Consiglio Superiore LL.PP. for the development of a formal statement on the affare n. 24/2021. Kit di barriere paramassi (Falling Rock Protection Kits) qualificati mediante ETA e marcatura CE sulla base di ETAG 027 ed EAD 340059-00-0106. Richiesta di parere della ASSOROCCIA (2021) (Rockfall protection kits);

2020-2021 Member of the Working Group of the Consiglio Superiore dei Lavori Pubblici of the Italian Ministry of Infrastructures and Transport to develop the guidelines for road tunnel maintenance and inspections;

2002-08 Italian Expert member (representing the Consiglio Superiore dei Lavori Pubblici of the Italian Ministry of Infrastructures and Transport) in the European commission of EOTA to prepare the Guideline on “rockfall protection kits”;

2004-05 Member of UNI (Italian standardization body) standardization groups

Most relevant activities as expert witness and consultant

2019 Advisory Board / research and development of Herrenknecht AG (Germany);

2019 Member of the Technical-Scientific Board for the analysis of the design of the tunnels of Gronda di Genova (member in charge of the mechanized tunnelling aspects). ASPI SpA (Italy);

2018 Member of the International Board of Experts following the excavation of the Toluca Tunnel (Mexico City) (member in charge of soil conditioning aspects);

2015-2017 Member of the International Board of Experts following the tunnel excavation of the Alaskan Way Viaduct Replacement Program (Seattle). WSDOT (USA) (member in charge of the soil conditioning aspects);

2010 Member of the International Board to assess the stability conditions of the Acheloos tunnel. Ministry of infrastructures transport and networks of Greece;

2009 Expert for the assesement of the stability of the access tunnel to the Larimar orebody nominated by the EU commission. SISMIN II Programa de soporte al setor geologico-minero de la Republica Dominicana. Obras para la valoracion y explotacion del yacimiento del Larimar (Repubblica Domenicana);
2006 Geotechnical and static advisor of a project with rockfall net fences and embankment. Turin Province (Italy);
2004 Member (company side) of the International Board for arbitration (Ireland) between Limerick Municipality and Uniform Construction Ltd (Dublin) on the microtunnel works of Limerick Main Drainage Nothern Interceptor Sewer (Ireland);
2004-2008 Geotechnical and static advisor of a water coinveyance tunnel 14km long in Susa Valley (Italy). IREN (Italy);

Activities as consultant for the Prosecutor of the State Attorney Office and expert nominated by the Civil Judges

Research contracts

Principal investigator and person in charge of Research Projects financed by the Italian University Ministry and by EU and of 60 research contracts between Politecnico di Torino and various companies and public bodies. **The complete list be found at:**

http://www.swas.polito.it/rubrica/scheda_pers.asp?matricola=001862&vis_prog=S#prog

Most Relevant Papers

Author or co-author of more 250 scientific pubblications on geo-engineering, tunnels, ground reinforcing and protection against rockfall published on international Journals and proceedings of international and national congresses.

The complete list can be found at:

https://iris.polito.it/cris/rp/rp04305?sort_byall=2&orderall=DESC&open=all#.Xd0I3tXSI2w

Two patents of two rock fall protection barriers and one international patent on soil conditioning for EPB tunnelling.

Editor of the Proceedings of the World Tunnel Congress 2019 and of the proceedings of four conferences on rockfall and one congress on mechanized tunnelling.