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Brief Curriculum

Full Professor of Structural Engineering at the University of Campania "Luigi Vanvitelli" (since 2018)

Associate Professor of Structural Engineering at the University of Campania "Luigi Vanvitelli" (from 2015 to 2018) and at the University of Chieti/Pescara (from 2005 to 2015).

Assistant professor of Structural Engineering at the Engineering Faculty of the University of Naples (2000-2004);

PhD in Structural Engineering (1998); Civil Engineer (1994).

Member of PhD Committee in "Architecture, Geology and Civil Engineering" at the University G. d'Annunzio of Chieti-Pescara (from 2005 to 2015).

Member of PhD Committee in "Architecture, Industrial Design and Cultural Heritage" at the University of Campania "Luigi Vanvitelli" (since 2015).

Member of Project team CEN-SC9-T1 "Aluminium" Mandate M/515 "Evolution of Structural Eurocodes" (2015);

Member of the CEN/TC250/SC9 Committee "Aluminium Alloy Structures" as Expert in the PT for the conversion from prEN to EN of 1993-1-2 "Fire design" and prEN 1999-1-1 "Connections".

Member of the CEN/TC250/SC3 Committee "Steel Structures" as Expert in the PT for the conversion from prEN to EN of 1993-4-1 "Silos".

Member of the Italian UNI-SC3 Committee "Steel Structures".

Member of National Committee UNI-CIS "Structural resistance under fire".

Member of the Pool of Reviewers for the Romanian Research Assessment Exercise (RRAE), Romania (since 2011).

Reviewer of scientific papers for many International journals, such as:

- ASCE Journal of Structural Engineering,
- Elsevier Journal of Engineering Structures,
- World Scientific Publishing Company Journal of Structural Stability and Dynamics,
- Elsevier Journal of Constructions & Building Materials,
- John Wiley and Sons Earthquake Engineering and Structural Dynamics,
- Pergamon-Elsevier Press Computers & Structures,
- Elsevier Journal of Constructional Steel Research,
- Wiley Journal of the Structural Design of Tall and Special Buildings,
- NED International Journal of Research- Structural Mechanics,
- Techno Press Journal of Steel and Composite Structures,
- Iranian Journal of Science and Technology,
- Taylor and Francis Publisher International Journal of Non-destructive Testing and Evaluation,
- Taylor and Francis Journal of Civil Engineering and Management,
- Taylor and Francis International Journal of Architectural Heritage,
- Bentham Open Civil Engineering Journal,
- Bentham Open Materials Science Journal,
- Bentham Open Construction & Building Technology Journal

Member of many scientific committees of international conferences.

Member of editorial committee for international journals.

Member of Editorial committees for scientific books.

Coordination activity for the following international research projects:

- Technical coordinator of the European Project "Earthquake Protection of Historical Buildings by Reversible Mixed Technologies"; Specific Targeted Research or Innovation Project, 6th FP (2004-2008);
- Vice-chairman of WG2 "Structural Integrity under Exceptional Loading", within the European research project COST C12 "Improving Buildings' Structural Quality by New Technologies" (2000-2004);
- Vice-chairman of WG3 "Impact and Explosions", within the European research project COST C26 "Urban habitat

- constructions under catastrophic events” (2006-2010);
- Participation to many international research projects, such as:
- "Analysis of the contributing effect of building panels on steel structure resistance to seismic and aeolian phenomena", supported by European Community Commission - Executive Committee F6 "Steel Structures" - Agreement n. 7210 - SA/421 (1994-1997);
- Cost C1: "Semirigid Behaviour of Civil Engineering Connections" (1992-99);
- "Training in the Aluminium Alloy Structural Design", Leonardo Program TAS/WP, (1995-1998);
- "Use of steel in refurbishment", Project Tempus S_JEP-09524-95 (1995-1998);
- "Implementing of Structural Eurocodes in Romanian Civil Engineering Standards" Project Tempus JEP 01198-1995;
- "Experimental Analysis", Project Tempus JEP 011297, (1996-1999).
- "Reliability of Moment Resistant Connections of Steel Building Frames in Seismic Areas (RECOS)"; Inco-COPERNICUS Joint Research Project, 4th framework programme of European Commission.
- "Rotational Capacity of Aluminium Beams", sponsored from Hydro Aluminium Maritime (Norway).
- "Earthquake Protection of Historical Buildings by Reversible Mixed Technologies (PROHITECH)"; Specific Targeted Research or Innovation Project, 6th FP - European Commission (INCO-CT-2004-509119) (2004-2008)
- Cost C26: "Urban Habitat Constructions under Catastrophic Events" (2006-2010).
- Cost Action TU0904: "Integrated Fire Engineering and Response" (2010-2012).

Responsible of many national research projects, such as:

- "Behavior and characterization of ancient timber structures retrofitted by reversible mixed technologies", PRIN 2005 "Protection and structural rehabilitation of historical buildings by reversible mixed technologies" Responsible of the RU at UNICH (2005-2007);
- "Structural contribution of stiffening shear panels for the control of steel framed buildings", within the National project RELUIS, Responsible of the RU at UNICH (2005-2007);
- "Design of steel structures with steel shear panels", within the National project RELUIS2, Responsible of the RU at UNICH (2009-2012);
- "Design methods for steel structures with dissipative shear panels", within the National project RELUIS3, Responsible of the RU at UNICH (2014-2016);
- Responsible of the scientific research project "Structural performance of ancient wood: experimental and numerical analysis on actual beams", sponsored by 'Regione Campania', within the L.R. 28/03/02 n° 5 (2000-2005);
- Responsible for the structural interventions for the reconstruction plans of the municipalities of Goriano Sicoli (AQ), Gagliano Aterno (AQ), Cocullo (AQ), after the 2009 L'Aquila earthquake within the activity developed by of the University of Chieti-Pescara (2011-2013);

Scientific cooperation with many international Institutions, such as:

- Instituto Superior Tecnico di Lisbona, (Portugal), Prof. L. Calado
- Norwegian University of Science and Technology di Trondheim (Norway), Prof. M. Langseth
- Politehnica University di Timisoara (Romania), Prof. D. Dubina
- University of Architecture, Civil Engineering and Geodesy of Sofia (Bulgaria), Prof. J. Milev
- University of Manchester (United Kingdom), Prof. J. M. Davies
- Universität Stuttgart (Germany), Prof. U. Kuhlmann
- Technical University of Prague (Czech Republic), Prof. F. Wald
- University of Thessaly (Greece), Prof. E. Mistakidis
- University of Liege (Belgium), Prof. J.P. Jaspart
- University of Skopje and IZIS (Macedonia), Prof. Kiril Gramatikov e Prof. L. Tashkov
- University of Southampton (UK), Dr. Mike Byfield
- University of Cranfield (UK), Dr. Peter Smith

"Special achievement in Structural Engineering" for 2008, for the research activity "Numerical and Experimental Analysis of Three Strengthening techniques applied on three large scale models in the frame of the PROHITECH project", given by the Macedonian Association of Structural Engineers (MASE), within the XIII International Symposium MASE, Ohrid (Macedonia), 14-17 October 2009.

Author of more than 300 scientific papers, published in national and international scientific journals and conference proceedings, mainly focused on the following topics:

- Seismic response of steel structures;

- Innovative devices for seismic protection of buildings;
- Behaviour of steel and aluminium structures;
- Structural response and retrofitting of monumental buildings;
- Structural behaviour of structures under fire, blast and explosions.

Bibliometric indexes (by Scopus, June 2019): 100 Documents, 1159 Citations, h-index 21.

List of papers published in **International journals**.

- [1] G. De Matteis, R. Landolfo, F.M. Mazzolani, "On the shear flexibility of corrugated shear panels". **STEEL STRUCTURES, Journal of Singapore Structural Steel Society**, December 1995, ISSN 0218-1746, Singapore, Vol. 6, pp 103-111.
- [2] G. De Matteis, R. Landolfo, F.M. Mazzolani, "Diaphragm Effect for Industrial Buildings under Earthquake Loading". **Journal of Constructional Steel Research**, Elsevier, ISSN 0143-974X(99)00038-3, doi: 10.1016/S0143-974X(98)00071-6Oxford (UK), 1998, Vol. 46:1-3 (401).
- [3] G. De Matteis, R. Landolfo, "Structural Behaviour of Sandwich Panel Shear Walls: an Experimental Analysis". **Materials and Structures**, RILEM, ISSN 1359-5997, doi 10.1007/BF02479624, Cachan (France), June 1999, Vol. 32, pp 331-341.
- [4] L.A. Moen, G. De Matteis, O.S. Hopperstad, M. Langseth, R. Landolfo, F.M. Mazzolani, "Rotational Capacity of Aluminum Beams under Moment Gradient.II: Numerical Simulation Read More: <http://ascelibrary.org/doi/abs/10.1061/%28ASCE%290733-9445%281999%29125%3A8%28921%29>", **Journal of Structural Engineering, ASCE**, ISSN 0733-9445, 125 (8), Reston-VA (USA), 1999, pp 921-929.
- [5] G. De Matteis, R. Landolfo, "Mechanical Fasteners for Cladding Sandwich Panels: Interpretative Models for Shear Behaviour", **Thin-Walled Structures**, Elsevier, ISSN 0263-8231 doi: 10.1016/S0263-8231(99)00017-8, Oxford (UK), Vol. 35, 1999, 61-79.
- [6] G. De Matteis, R. Landolfo, "Modelling of Lightweight Shear Diaphragms for Dynamic Analysis", in **Journal of Constructional Steel Research**, Elsevier, ISSN 0143-974X, doi.org/10.1016/S0143-974X(99)00038-3, Oxford (UK), 2000, Vol. 53, pp 33-61.
- [7] G. De Matteis, F.M. Mazzolani, R. Landolfo, J. Milev, "Q-factor evaluation of moment resisting steel frames with semi-rigid connections by applying different approaches" in **Acta Polytechnica, Journal of Czech Technical University**, Prague (Czech Republic), ISSN 1210-2709, 1999, Vol. 39, No. 5, pp 183-194.
- [8] G. De Matteis, A. Mandara, F.M. Mazzolani, "T-stub Aluminium Joints: the Influence of Behavioural Parameters", **Computers and Structures**, ISSN: 0045-7949, doi: 10.1016/S0045-7949(00)00081-X, Pergamon-Elsevier Science Ltd, Oxford, England, 2000, Vol. 78, No. 1-3, 311-327.
- [9] G. De Matteis, R. Landolfo, "Diaphragm Action of Sandwich Panels in Pin-Jointed Steel Structures: a Seismic Study", **Journal of Earthquake Engineering**, ISSN: 1363-2469, DOI: 10.1080/13632460009350371, Imperial College Press, 57 Shelton St, London, England, Vol. 4, No. 3 (2000) 251-275.
- [10] L. Calado, G. De Matteis, R. Landolfo, "Experimental response of top and seat angle semi-rigid steel frame connections", **Materials and Structures**, RILEM, ISSN 1359-5997 (Print) 1871-6873 (Online), doi 10.1007/BF02480527 Cachan (France), October 2000, Vol. 33, pp 499-510.
- [11] G. De Matteis, L.A. Moen, M. Langseth, R. Landolfo, O.S. Hopperstad, F.M. Mazzolani "Cross-Sectional Classification for aluminium beams: a parametric study", **Journal of Structural Engineering, ASCE**, ISSN 0733-9445, doi.org/10.1061/(ASCE)0733-9445(2001)127:3(271), Reston-VA (USA), 2001, Vol. 127 (3), pp 271-279.
- [12] G. Della Corte, G. De Matteis, R. Landolfo, F.M. Mazzolani, "Seismic Analysis of MR Steel Frames based on Refined Hysteretic Models of Connections", **Journal of Constructional Steel Research**, ISSN 0143-974X(02)00014-7, [doi.org/10.1016/S0143-974X\(02\)00014-7](http://doi.org/10.1016/S0143-974X(02)00014-7), Oxford (UK), 2002, Vol. 58, pp 1331-1345.
- [13] G. De Matteis, R. Landolfo, F. M. Mazzolani, "Seismic Response of MR Steel Frames with low-yield Steel Shear Panels", **Engineering Structures - The Journal of Earthquake Wind and Ocean Engineering**, Elsevier, printed by Krips b.v., Meppel, The Netherlands, ISSN 0141-0296, doi.org/10.1016/S0141-0296(02)00124-4, Vol. 25, No. 2, 2003, pp 155-168.
- [14] G. De Matteis, R. Landolfo, M. Manganiello, F. M. Mazzolani, "Inelastic behaviour of I-shaped aluminium beams: numerical analysis and cross-sectional classification", **Computers and Structures**, ISSN: 0045-7949, doi.org/10.1016/j.compstruc.2004.03.071, Pergamon-Elsevier Science Ltd, Oxford, England, Vol. 82, 2004, pp 2157-2171.
- [15] B. Faggiano, G. De Matteis, R. Landolfo, F.M. Mazzolani, "Behaviour of aluminium alloy structures under fire", **Journal of Civil Engineering and Management**, ISSN 1392-3730, Vol. X, No. 3, 2004, 193-200.
- [16] G. De Matteis "Effect of lightweight cladding panels on the seismic performance of moment resisting steel frames", **Engineering Structures - The Journal of Earthquake Wind and Ocean Engineering**, Elsevier, ISSN 0141-0296, doi.org/10.1016/j.engstruct.2005.06.004, printed by Krips b.v., Meppel, The Netherlands, Vol. 27/11, pp 1662-1676, Elsevier, 2005
- [17] M. Manganiello, G. De Matteis, R. Landolfo "Inelastic flexural strength of aluminium alloy structures, in **Engineering Structures**, ISSN 0141-0296, doi.org/10.1016/j.engstruct.2005.09.014, printed by Krips b.v., Meppel, The Netherlands, Vol. 28/4, pp 593-608, Elsevier, 2006
- [18] B. Calderoni, G. De Matteis, C. Giubileo, F.M. Mazzolani "Flexural and shear behaviour of ancient wooden beams: experimental and theoretical evaluation", **Engineering Structures**, ISSN 0141-0296, doi.org/10.1016/j.engstruct.2005.09.027, printed by Krips b.v., Meppel, The Netherlands, Vol. 28/5, pp 729-744, Elsevier, 2006

- [19] G. De Matteis, F.M. Mazzolani and S. Panico "Pure aluminium shear panels as dissipative devices in moment-resisting steel frames", in **Earthquake Engineering and Structural Dynamics**, ISSN: 1096:9845, John Wiley & Sons Ltd, The Atrium, Southern Gate, Chichester, England, Wiley InterScience, DOI: 10.21002/eqe, vol. 36: 841-859, 2007.
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- [31] A. Formisano, G. De Matteis and F. M. Mazzolani "Numerical and experimental behaviour of a full-scale RC structure upgraded with steel and aluminium shear panels", in **Computer and Structures**, ISSN: 0045-7949, Pergamon-Elsevier Science Ltd, Oxford, England, pp 626-636, doi: 10.1016/j.compstruc.2008.09.010, 2010
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- [35] G. De Matteis, G. Brando, F.M. Mazzolani " Experimental and numerical analysis of pure aluminium for dynamic applications" in **Applied Mechanics and Material**, Vol. 82 Performance Protection and Strengthening of Structures under Extreme Loading Edited by Ezio Cadoni and Marco di Prisco (2011) pp 136-141 ISBN 13-978-3-03785-217-0, doi: 10.4028/www.scientific.net/AMM.82.136
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- [40] Brando, G., D' Agostino, F., De Matteis, G. "Experimental tests of a new hysteretic damper made of buckling inhibited shear panels" (2013) **Materials and Structures/Materiaux et Constructions**, 46 (12), pp 2121-2133, ISSN 1359-5997, Mater Struct DOI 10.1617/s11527-013-0040-6
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- [45] G. Brando, F. D'Agostino, G. D. Matteis (2014). Seismic performance of MR frames protected by viscous or hysteretic dampers. **The structural design of tall and special buildings** (ISSN:1541-7794)
- [46] G. D. Matteis, G. Sarracco, G. Brando, F.M.Mazzolani (2014). Influence of column axial load and heat affected zone on the strength of aluminium column web in tension. "**Materials**" **Open Access Materials Science Journal** – MPDI (ISSN:1996-1944) p. 3557 - 3567 Vol. 7
- [47] E. Criber, G. Brando, G. D. Matteis (2015). The effects of L'Aquila earthquake on the St. Gemma church in Goriano Sicoli: part I — damage survey and kinematic analysis. **Bulletin of Earthquake Engineering**, Springer, ISSN 1570-761X, DOI 10.1007/s10518-015-9792-4
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