

CURRICULUM VITAE**FLORA FALESCHINI**

PERSONAL INFORMATION	<p>ADDRESS: Viale Risorgimento 146, 47121 Forlì (FC), Italy</p> <p>TELEPHONE: +39 3497351282 +39 0498275585</p> <p>EMAIL: flora.faleschini@dicea.unipd.it</p> <p>DATE OF BIRTH: 22/12/1986</p> <p>NATIONALITY: Italian</p>
EDUCATION	<p>PhD in Civil and Environmental Engineering Sciences (Doctor Europaeus) Dept. of Civil, Environmental and Architectural Engineering, University of Padova, Italy. Supervisor: Prof. Carlo Pellegrino. 2011-2014</p> <p>MS in Environmental Engineering (cum laude) University of Padova, Italy. 2008-2011</p> <p>BS in Environmental Engineering University of Padova, Italy. 2005-2008</p>
RESEARCH and SCIENTIFIC EXPERIENCE	<p>Lecturer: "Design of Structures for Environmental Protection", MS Environmental Engineering, University of Padova, AA 2015/2016.</p> <p>Co-supervisor of 20 theses in Civil Engineering (BS), and of 12 theses Civil/Environmental/Architectural Engineering, University of Padova.</p> <p>2-year Post-doctoral Research Fellowship "The use of recycled aggregates for the improvement of sustainability in RC structures in a life cycle perspective." Dept. of Civil, Environmental and Architectural Engineering, University of Padova, Italy. Supervisor: Prof. Carlo Pellegrino. 2015 - ongoing</p> <p>Research Fellowship "Life cycle analysis and the use of innovative materials in RC structures." Dept. of Civil, Environmental and Architectural Engineering, University of Padova, Italy. Supervisor: Prof. Carlo Pellegrino.</p>

2013 - 2014

Research Fellowship

"A multidisciplinary approach for the development of sustainable and innovative techniques for constructions during their life cycle."

Dept. of Civil, Environmental and Architectural Engineering,
University of Padova, Italy.

Supervisor: Prof. Carlo Pellegrino.

2012 - 2013

Aldo Gini foundation Research Fellowship

"Experimental and numerical analyses of recycled aggregate concretes' rheology."

Universitat Politècnica de Catalunya – BarcelonaTECH

Supervisor: Prof. Enric Vazquez Ramonich.

2013

PUBLICATIONS

International indexed Journals

1. Pellegrino C., Cavagnis P., Faleschini F., Brunelli K. (2013) Properties of concretes with black/oxidizing electric arc furnace slag aggregate. *Cement and Concrete Composites*, 37(1): 232-240. Citations in Scopus: 41.
2. Pellegrino C., Faleschini F. (2013) Experimental behavior of reinforced concrete beams with electric arc furnace slag as recycled aggregate. *ACI Materials Journal*, 110(2): 197-205. Citations in Scopus: 11.
3. Faleschini F., De Marzi P., Pellegrino C. (2014) Recycled concrete with EAF slag: Environmental assessment through LCA. *European Journal of Environmental and Civil Engineering* 18(9): 1009-1024. Citations in Scopus: 13.
4. Faleschini F., Jimènez C., Barra M., Aponte D., Vázquez E., Pellegrino C. (2014) Rheology of fresh concretes with recycled aggregates. *Construction and Building Materials* 73: 407-416. Citations in Scopus: 6.
5. Pellegrino C., Zanini M.A., Faleschini F., Corain L. (2015) Predicting bond formulations for prestressed concrete elements. *Engineering Structures*, 97: 105-117.
6. Faleschini F., Zanini M.A., Brunelli K., Pellegrino C. (2015) Valorization of co-combustion fly ash in concrete production. *Materials and Design* 85: 687-694. Citations in Scopus: 2.
7. Faleschini F., Fernandez-Ruiz M.A., Zanini M.A., Brunelli K., Pellegrino C., Hernandez-Montes E. (2015) High Performance Concrete with Electric Arc Furnace Slag Aggregate: Mechanical and Durability Properties. *Construction and Building Materials*,

V.101(1), pp. 113-121. Citations in Scopus: 1.

8. Faleschini F., Zanini M.A., Pellegrino C., Pasinato S. (2016) Sustainable management and supply of natural and recycled aggregates in a medium-size integrated plant. *Waste Management* 49, 146-155.

9. Zanini M.A., Faleschini F., Pellegrino C. (2016) Cost analysis for maintenance and seismic retrofit of existing bridges. *Structure and Infrastructure Engineering*, 1-17, doi: 10.1080/15732479.2015.1133661.

10. Zampieri P., Zanini M.A., Faleschini F. (2016) Influence of damage on the seismic failure analysis of masonry arches. *Construction and Building Materials* 119, 343-355. Citations in Scopus: 1.

11. Zampieri P., Zanini M. A., Faleschini F. (2016) Derivation of analytical seismic fragility functions for Common Masonry Bridge types: Methodology and application to real cases. *Engineering failure analysis* 68, 275-291.

12. Zanini M.A., Faleschini F., Pellegrino C. (2016) Bridge residual service-life prediction through Bayesian visual inspection and data updating. *Structure and Infrastructure Engineering*, doi: 10.1080/15732479.2016.1225311.

13. Zanini M.A., Faleschini F., Zampieri, P., Pellegrino C., Gecchele G., Gastaldi M., Rossi R. (2016) Post-quake urban road network functionality assessment for seismic emergency management in historical centers. *Structure and Infrastructure Engineering* (accepted).

International journals

14. Faleschini F., Brunelli K., Zanini M.A., Dabalà M., Pellegrino C. (2016) Electric Arc Furnace Slag as Recycled Aggregate for Concrete Production. *Journal of Sustainable Metallurgy*, 2-1: 44-50. doi: 10.1007/s40831-015-0029-1.

International indexed Monographs

15. Pellegrino C., Faleschini F. (2017) Sustainability improvements in concrete industry. Springer, Green Energy and Technology Serie (ISBN: 978-3-319-28538-2; doi: 10.1007/978-3-319-28540-5).

National Journals

16. Zanini M.A., Faleschini F., Pellegrino C., Modena C. (2013) Studio dell'evoluzione della vulnerabilità sismica. *Strade & Autostrade*, No 99:44-47.

17. Faleschini F., Zanini M.A., Pellegrino C., D'Antino T. (2013) Indagine sperimentale sul comportamento strutturale di pannelli

multistrato con isolanti poliuretanic. Poliuretano, Semestrale Nazionale di informazione sull'isolamento termico, Anno XXV, n°18, Luglio 2013.

18. Faleschini F., Zanini M.A., Pellegrino C. (2013) Il calcestruzzo riciclato con scorie di acciaieria. *Strade & Autostrade*, No 99:85-88.

19. Zanini M.A., Faleschini F., Pellegrino C., Modena C. (2014) Br.I.N.S.E.: la valutazione della vulnerabilità sismica dei ponti. *Strade & Autostrade*, No 107:72-75.

20. Zanini M.A., Cester N., Faleschini F., Pellegrino C. (2015) Un applicativo per il deterioramento di ponti. *Strade & Autostrade*, No 110:72-75.

21. Zanini M.A., Faleschini F., Pellegrino C., Modena C. (2015). La gestione delle verifiche post-sisma per le infrastrutture ferroviarie. *Ingegneria Ferroviaria*, Settembre 2015, 691-718.

22. Faleschini F., Zanini M.A., Zordan A., Pellegrino C., Pasinato S. (2016). Eco-aggregati riciclati: performance meccaniche e sostenibilità ambientale. *Strade e Autostrade* 3-2016.

International Conferences

23. Pellegrino C., Faleschini F. (2012) Experimental Investigation on RC Beams containing Slag as Recycled Aggregate. *fib Symposium*, 11-14 June 2012, Stockholm, Sweden.

24. Faleschini F., Pellegrino C. (2013) An experimental study about the possibility of substituting natural aggregates with EAF slag in concrete production. *SCC Paris 2013, 7th International RILEM conference on Self-Compacting Concrete*, 2-4 September 2013, Paris.

25. Faleschini F., Pellegrino C. (2014) Use of metallurgical industrial by-products as sustainable route for concrete production. *The 1st CIC Concrete Innovation Conference*, 11-13 June, 2014, Oslo, Norway.

26. Morbin R., Faleschini F., Zanini M.A., Caldon M., Marchesini F. P., Maiorana E., Pellegrino C. (2014) Improvement of dynamic behaviour of the Varesine-Garibaldi footbridge (Milan, Italy) with TMD. *12th International Conference on Computational Structures Technology CST2014*, Naples, 2-5 September 2014.

27. Faleschini F., Brunelli K., Dabalà M., Pellegrino C. (2015) High performances concrete with EAF slag as coarse aggregates. *Slag Valorisation Symposium*, 15-17 April 2015, Leuven.

28. Pellegrino C., Faleschini F. (2015) The use of Electric Arc Furnace Slag for structural concrete production: the research experience at University of Padova. EVIPAR 2015, 11-12 June 2015, Thessaloniki, Greece.
29. Mazzucco G., Xotta G., Pomaro B., Faleschini F., Pellegrino C., Majorana C. (2015) Compelling issues in modelling concrete with recycled aggregates. CFRAC 2015, 3-5 June 2015, Cachan, France.
30. Gonzalez J., Faleschini F., D'Antino T., Pellegrino C. (2015) Bond behavior and sustainability of FRCC composites applied on masonry elements. Civil-Comp 2015, 1-4 September 2015, Prague, Czech Republic.
31. Mazzucco G., Xotta G., Pomaro B., Majorana C.E., Faleschini F., Pellegrino C. (2015) Mesoscale Modelling of Concrete with Recycled Aggregates. ConCreep-10, September 21-23 2015, Vienna, Austria.
32. Zanini M.A., Faleschini F., Pellegrino C. (2015) Research activities on performance indicators for bridge management at the University of Padova, Italy. COST TU1406 Meeting, 21-22 September 2015, Geneva, Switzerland.
33. Faleschini F., Zanini M.A., Pellegrino C. (2015) New perspectives in the use of electric arc furnace slag as coarse aggregate for structural concrete. 8th European Slag Conference, Linz, Austria, 21-23 October 2015.
34. Zanini M.A.Z., Faleschini F., Fabris N., Pellegrino C. (2016) Qualitative performance indicators for bridge management in Italy. COST TU1406 Meeting, 30 March-1 April 2016, Belgrade, Serbia.
35. Faleschini F., Brunelli K., Pellegrino C. (2016) Valorization of electric arc furnace slag for concrete production. 3rd Symposium on Urban Mining, 23-25 May 2016 Bergamo, Italy.
36. Faleschini F., Krunelli K., Dabalà M., Pellegrino C. (2016). Electric arc furnace slag: a sustainable valorization in civil engineering applications. 11th European Electric Steelmaking Conference & Expo. Venice, Italy, 25-27 May 2016.
37. Zanini M.A., Faleschini F., Morbin R., Gastaldi M., Rossi R., Pellegrino C., Modena C. (2016) Interaction between building collapse and road serviceability during seismic emergency operations in urban centers. Applied Mechanics and Materials, 847: 319-324. ISSN 1662-7482, DOI: 10.4028/www.scientific.net/AMM.847.319.
38. Faleschini F., Zanini M.A., Brunelli K., Pellegrino C. (2016)

Use of electric arc furnace slag for high strength concrete production. *Applied Mechanics and Materials*, 847: 537-543. ISSN 1662-7482, DOI: 10.4028/www.scientific.net/AMM.847.537.

39. Zanini M.A., Faleschini F., Pellegrino C. (2016) Seismic loss assessment of deteriorating bridge networks. IABMAS 2016, 8th International Conference on Bridge Maintenance, Safety and Management, June 26-30, Foz do Iguaçu, Brazil.

40. Zanini M.A., Faleschini F., Hofer L., Franchetti P., Pellegrino C. (2016) Maintenance and seismic retrofit cost assessment of existing bridges. IABMAS 2016, 8th International Conference on Bridge Maintenance, Safety and Management, June 26-30, Foz do Iguaçu, Brazil.

41. Zanini M.A., Mocellin P., Vianello C., Maschio G., Faleschini F., Andreotti M., Pellegrino C., Modena C. Numerical analysis of the structural response of RC-framed buildings subjected to internal explosions. IBMAC 2016, 16th International Brick and Block Masonry Conference, June 26-30, Padova, Italy.

National Conferences

42. Faleschini F., Zanini M.A., Pellegrino C., D'Antino T. (2013) Indagine sperimentale sul comportamento strutturale di pannelli multistrato con isolanti poliuretanic. Prima Conferenza Nazionale Poliuretano Espanso Rigido, 21 marzo 2013, Castelnuovo del Garda, Verona.

43. Zanini M.A., Faleschini F., Pellegrino C., Modena C. (2013) Valutazione dell'evoluzione temporale della vulnerabilità sismica di cavalcavia autostradali soggetti a degrado. XV Convegno Nazionale ANIDIS – L'Ingegneria Sismica in Italia, Padova, 30 Giugno – 4 Luglio 2013, ISBN 978-88-97385-59-2.

44. Faleschini F., Pellegrino C. (2014) La valutazione della sostenibilità di calcestruzzi con scorie di acciaieria tramite un approccio al ciclo di vita. Giornate AICAP 2014, 22-23 Maggio 2014, Bergamo.

45. Faleschini F., Pellegrino C., Vázquez E., Jiménez C., Barra M. (2014) Proprietà reologiche di calcestruzzi riciclati. Giornate AICAP 2014, 22-23 Maggio 2014, Bergamo.

46. Faleschini F., Pellegrino C., Brunelli K., Bassi F. (2014) L'utilizzo di ceneri di co-combustione come additivo minerale per calcestruzzi. 20° Convegno del Collegio dei Tecnici della Industrializzazione Edilizia (CTE), Milano 2014.

47. Morbin R., Zanini M.A., Faleschini F., Pellegrino C. (2015) Automatic procedure for fragility assessment of common existing road bridge typologies. OpenSeesDays 2015, 10-11 Giugno

2015, Fisciano, Salerno.

48. Faleschini F., Zanini M.A., Morbin R., Pellegrino C. (2015) A stochastic approach for assessing vulnerability of isolated bridges subjected to environmental deterioration. OpenSeesDays 2015, 10-11 Giugno 2015, Fisciano, Salerno.

49. Zanini M.A., Faleschini F., Pellegrino C. (2015) Statistical analysis of maintenance and seismic retrofit costs for existing bridges. XVI ANIDIS 2015, 13-17 Settembre 2015, L'Aquila.

50. Mazzucco G., Pomaro B., Xotta G., Salomoni V., Faleschini F. (2016) Numerical simulation of concrete materials with recycled aggregates enriched with graphene. GIMC-GMA 2016, XXI Convegno Italiano di Meccanica Computazionale, VIII Riunione del Gruppo Materiali AIMETA, Lucca 27-29 giugno 2016.

Research Honors

Research honor for young researcher "Workshop PER RISPARMIARE - utilizzo del poliuretano espanso rigido e risparmio energetico", March 2013.

OTHER INFORMATIONS

License - Professional Society of Civil and Environmental Engineers

No. License 5733 - Section A Professional Society of Engineers, Padova (Italy).

Memberships

01/01/2014: ReLUIS-DPC 2014-2018 RS6 – Reti di distribuzione e utilità.

01/02/2014: Comitato Tecnico per i Terreni Contaminati CTTC, Gruppo di Lavoro VIII: Terre e Rocce da Scavo.

01/12/2014: *fib* Task group 2.5: Bond and Material Models

16/10/2015: COST Action COST TU 1406 "Quality specifications for roadway bridges, standardization at a European level (BridgeSpec)", WG1 - Performance indicators

Peer-Reviewer for International Journals

Waste Management, ACI Structural Journal, Construction and Building Materials, Journal of Sustainable Metallurgy, Materials and Design, Materials.

Languages

Italian (Native Speaker)

English (Fluent)

Spanish (Intermediate)

Padova, 26/09/2016

