

Curriculum Vitae

Family Name: Lourenço

First Name: Paulo B.

Date of Birth: 24 March 1967

Nationality: Portuguese

Education/ Professional Studies:

Institution: University of Porto

Date From/To: 1990

Degree/ Diploma: Graduation in Civil Engineering

Institution: Delft University of Technology

Date From/To: 1996

Degree/ Diploma: PhD

Language skills : (From 1 (notions) to 5 (excellent) for competence) (*=mother tongue)

<u>Language</u>	<u>Speaking</u>	<u>Reading</u>	<u>Writing</u>
English	5	5	5
French	3	5	4
Spanish	5	5	3
Dutch	4	4	3
Portuguese	*		

Membership of Professional bodies:

Portuguese Society of Engineers, since 1996

Other Professional bodies:

- APEE – Portuguese Association of Structural Engineering
- APMTAC – Portuguese Association of Theoretical, Applied and Computational Mechanics
- BMS – British Masonry Society
- CIB – International Center for Research and Innovation in Building Construction
- FIB – Fédération Internationale du Béton
- GPBE – Portuguese Group of Structural Concrete
- ICOMOS – International Council on Monuments and Sites
- ISCES – International Society for Computational Engineering and Sciences
- TMS – The Masonry Society
- SPES – Portuguese Society for Seismic Engineering

Board of Professional bodies:

- GPBE, since July 2001
- APMTAC, since June 2000
- APEE, since July 1999

Other skills:

Paulo Lourenço has been acting as reviewer for a number of different journals, including Int. J. Numer. Meth. Engrg., Int. J. Solids and Structures, Computers and Structures, Mechanics of Cohesive-Frictional Materials, European Journal of Mechanics A/Solids, Computers and Geotechnics, American Concrete Institute, The Masonry Society Journal, Structural Engineering and Mechanics, American Society of Civil Engineers. He has been a member of different Committees, such as W23 - Wall Structures of CIB ("International Council for Building Research Studies and Documentation"), TC MMM "Mechanical modeling of masonry" from RILEM, ISCARSAH "Analysis and Restoration of Structures of Architectural Heritage" from ICOMOS and CT115 related to EuroCodes. Organizer / co-organizer of the 5th Portuguese Computational Meeting in Guimarães, Portugal, the 2nd International Seminar on Structural Analysis of Historical Constructions in Barcelona, Spain, the 6th Portuguese Congress on Concrete Structures in Porto, Portugal, the 3rd International Seminar on Structural Analysis of Historical Constructions in Guimarães, Portugal, and the 5th International Conference on Structural Analysis of Historical Constructions in New Delhi, India, and member of several scientific committees of other events. He has been invited for lectures and seminars in ten countries, including e.g. Politecnico di Milano, Italy, and Northwestern University, U.S.A.. He has been supervising twenty Ph.D. theses (6 concluded).

Paulo Lourenço has been responsible of several contracted research projects, funded by the National Science Foundation and the European Union, as well as numerous consultancy projects in the field of inspection, analysis and strengthening design of historical constructions.

Present Position within the organisation:

Associate Professor

Head of the Structural Engineering Group

Head of Department

Professional experience Record (relevant to the proposal):

Consultant in over twenty case studies in Portuguese monuments including the key assets such as Cathedral of Porto (Porto), Monastery of Jerónimos (Lisbon) and Paço dos Duques de Bragança (Guimarães).

Location : University of Minho

Date : 2004-

Position : Head of Department t of Civil Engineering

Responsibilities : Director of the Civil Engineering Department at University of Minho

Date : 2001-2002

Position : Head of the Civil Engineering Research Centre

Responsibilities : Director of a research centre at University of Minho

Date : 1999-2000

Position : Scientific Secretary of the School of Engineering

Responsibilities : Manager of all scientific issues of the School

Date : 1997-1998

Position : Vice-Head of the Department of Civil Engineering

Responsibilities : Pedagogical and consultancy activities

Publications (most relevant in the last five years):

- Modena, C., Lourenço, P.B., Roca, P. (Editors), Structural analysis of historical constructions 2004: Possibilities of numerical and experimental techniques, ISBN 04-1536-379-9, A.A. Balkema Publishers, Leiden, pp. 1450 (2004)
- Lourenço, P.B., Barros, J.O., Oliveira, D.V. (Editors), Sísmica 2004, 6th National Congress of Seismology and Seismic Engineering, ISBN 972-8692-15-4, Universidade do Minho, Guimarães, pp. 966 (2004)
- Lourenço, P.B., Sousa, H. (Editors), Masonry walls, ISBN 972-8692-05-6, Universidade do Minho, Guimarães, pp. 206 (2002)
- Lourenço, P.B., Roca, P. (Editors), Historical constructions 2001: Possibilities of numerical and experimental techniques, ISBN 972-8692-01-3, Universidade do Minho, Guimarães, pp. 1200 (2001)
- Lourenço, P.B., Roque, J.A., Simplified indexes for the seismic vulnerability of ancient masonry buildings, *Construction and Building Materials*, 20(4), p. 200-208 (2006)
- Lourenço, P.B., Recommendations for restoration of ancient buildings and the survival of a masonry chimney, *Construction and Building Materials*, 20(4), p. 239-251 (2006)
- Milani, G., Lourenço, P.B., Tralli, A., Homogenised limit analysis of masonry walls. Part I: Failure surfaces, *Computers & Structures*, 84(3-4), p. 181-195 (2006)
- Milani, G., Lourenço, P.B., Tralli, A., Homogenised limit analysis of masonry walls. Part II: Structural applications, *Computers & Structures*, 84(3-4), p. 166-180 (2006)
- Lourenço, P.B., Luso, E., Almeida, M.G., Defects and moisture problems in buildings from historical city centres: A case study in Portugal, *Building and Environment*, 41(2), p. 223-234 (2006)
- Lourenço, P.B., Oliveira, D.V., Roca, P., Orduña, A., Dry joint stone masonry walls subjected to in-plane combined loading, *J. Struct. Engrg., ASCE*, 131(11), p. 1665-1673 (2005)
- Bonaldo, E., Barros, J.O., Lourenço, P.B., Bond characterization between concrete substrate and repairing SFRC using pull-off testing, *Int. Journal of Adhesion and Adhesives*, 25(6), p. 463-474 (2005)
- Prieto, F., Lourenço, P.B., On the rocking behavior of rigid objects, *Meccanica*, 40(2), p. 121-133 (2005)
- Orduña, A., Lourenço, P.B., Three-dimensional limit analysis of rigid blocks assemblages. Part I: Torsion failure on frictional joints and formulation, *Int. J. Solids and Structures*, 42(18-19), p. 5140-5160 (2005)
- Orduña, A., Lourenço, P.B., Three-dimensional limit analysis of rigid blocks assemblages. Part II: Load-path solution procedure and validation, *Int. J. Solids and Structures*, 42(18-19), p. 5161-5180 (2005)
- Lourenço, P.B., Almeida, J.C., Barros, J.A., Experimental investigation of bricks under uniaxial tensile testing, *Masonry International*, 18(1), p.11-20 (2005)
- Lourenço, P.B., Assessment, diagnosis and strengthening of Outeiro Church, Portugal, *Construction and Building Materials*, 19(8), p. 634-645 (2005)
- Oliveira, D.V., Lourenço, P.B., Implementation and validation of a constitutive model for the cyclic behaviour of interface elements, *Computers & Structures*, 82 (17-19), p. 1451-1461 (2004)
- Ramos, L.F., Lourenço, P.B., Advanced numerical analysis of historical centers: A case study in Lisbon, *Engineering Structures*, 26, p. 1295-1310 (2004)
- Prieto, F., Lourenço, P.B., Analytical solutions for rigid block structures under small displacements regime, *Applied Computing Engineering Journal*, 3(1), p. 13-17 (2004)
- Zucchini, A., Lourenço, P.B., A coupled homogenisation-damage model for masonry cracking, *Computers & Structures*, 82, p. 917-929 (2004)
- Lourenço, P.B., Ramos, L.F., Characterization of the cyclic behavior of dry masonry joints, *J. Struct. Engrg., ASCE*, 130(5), p. 779-786 (2004)
- Prieto, F., Lourenço, P.B., Oliveira, C.S., On the impact mechanisms of rocking motion, *Earthquake Engineering and Structural Dynamics*, 33, p. 839-857 (2004)
- Lourenço, P.B., Barros, J.O., Oliveira, J.T., Shear testing of stack bonded masonry, *Construction and Building Materials*, 18, p.125-132 (2004)