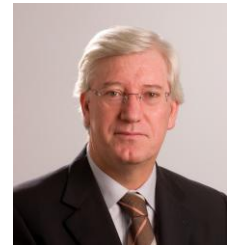


## Curriculum Vitae



### Personal Data

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### Present Position

Professor and Researcher in Hydraulics and Environmental Engineering at the Department of Civil Engineering, University of Minho.

### Education and Degrees

1997 – Agregação, University of Minho (approved unanimously)  
1986 – PhD in Civil Engineering, University of Minho (approved with distinction)  
1997 – MSc in Sanitary Engineering, IHE - Delft (Holland) (Diploma with distinction)  
1997 – Licenciatura (BSc) in Civil Engineering, University of Porto (16/20)

### Domain of specialization

Water resources planning and management  
Water quality modelling  
Drinking-water and public health

### Present research interests

Hydroinformatics  
Hydrodynamics and dispersion of pollutants in estuaries and coastal zones  
River basins water quality management  
Water supply and public health  
Drinking water safety plans

### Lectures

Hydraulics; Water and Wastewater Treatment; Water Management.

### **Supervising experience**

PhD supervision: 7 finished; 2 in progress

MSc supervision: 17 finished; 6 in progress

### **Participation in Research Projects**

Methodologies for Water Resources Policy Analysis (NATO, 1983-85). Participant.

Environmental Problems Assessment in the River Cavado Basin (Regional Government, 1984). Co-ordination of the civil engineering research group.

Water Resources Management and Ecological Planning in the Continental Shelf (Concil of Europe, 1987). Responsibility for the research line of Ecological Planning and Water Quality

Integrated Management of Solid Waste in the Region of Minho (ENVIREG, 1993-1995). National consultant.

Waste Stabilisation Ponds for Wastewater Treatment in Vila Verde and Amares Municipalities (1995-1996). Coordinator.

Hydrodynamics and Water Quality Mathematical Modelling in Estuaries and Coastal Zones (1995-2003). Coordinator.

Environmental Impact Assesment of Areias de Vilar Water Intake in River Cavado Water Quality (Águas de Portugal, 1996-1997). Coordinator.

Water Quality Mathematical Modelling in Water Supply Networks (Águas de Portugal, 1998-2002). Coordinator.

Flooding in Urban Streams (SIMAB, 2000-2001). Coordinator.

Development of Water Safety Plans (Águas do Cávado, 2003-2004). Coordinator.

Oil Spills Transport and Weathering Mathematical Modelling (FCT, 2003-2005). Coordinator.

DSS for Alqueva Water Quality Planning and Management (EDIA, 2003-2007). Coordinator.

A Decision Support System for Water Quality Management in the Ave and Cavado River Basins (CCDRN, 2006-2007). Coordinator.

Monitoring Program of an Aquaculture Project in Mira, Portugal (Aquinova, 2008-2010). Coordinator.

Advanced Ocean Surface Data: Wave Energy Utilization and Primary Production (FCT, 2005-2008). Coordinator of the University of Minho group.

Guidelines for Integrated Road Runoff Pollution Management in Portugal (G-terra) (FCT, 2008-2010). Coordinator of the University of Minho group.

Water Resources Management Plan of the Portuguese Northern Region. (ARHN, 2009-2010). Coordination of the Scientific Committee.

Multi-Objective Multi Reservoir Management (Singapore-Delft Water Alliance Research Projects, 2009-2012). Coordinator of the University of Minho group.

### **Positions in Career**

Full Professor, Civil Engineering Department, University of Minho, from 1997.

Pro-Rector of University of Minho from 1990 to 1998.

Vice-Rector of University of Minho from 1998 to 2002.

Director of the Department of Civil Engineering of UMinho from 1988 to 1989 and from 2010 to 2012.

Head of the Hydraulics Division in the Civil Engineering Department of UMinho, from 1986.

Member of the Council of the Engineering School of UMinho, from 2013.

Member of the Steering Committee of the School of Architecture of UMinho from 1996 to 2000.

Member of the Steering Committee of the School of Health Sciences of UMinho from 1999 to 2003.

Vice-President of the Science and Technology of Materials Research Centre from 1987 to 1991.

Head of the Research Centre CECUM (Civil Engineering Centre), UMinho from 1999 to 2000.

Director of the PhD Course in Civil Engineering, UMinho from 2008 to 2011.

Member of the Scientific Committee of the PhD Course in Civil Engineering, UMinho from 2008 to 2011.

Director of MSc Course in Municipal Engineering of UMinho (editions of 1992/93 and 1994/95).

#### **Affiliation in professional and scientific associations**

Vice-President of the Portuguese Association of Engineers, Lisbon, from 2010.

President of the Portuguese National Committee for FEANI, Lisbon, from 2010.

Member of the Executive Board of FEANI, Brussels, from 2011.

Member of the American Society of Civil Engineers, Washington.

President of the Portuguese Sanitary and Environmental Engineering Association (APESB), Lisbon (1999-2007).

President of the General Assembly of APESB, Lisbon (2007-2011).

Member of the Portuguese Water Resources Association, Lisbon.

Member of Member States Mirror Group of Water Supply and Sanitation Technology Platform, EU.

Member of the Governing Board of the International Water Association (IWA), London, from 1999 to 2003.

Member of the Governing Assembly of IWA, London, from 2003 to 2011.

President of the IWA Portuguese National Committee, Lisbon, from 2007 to 2009.

Member of the IWA Portuguese National Committee, Lisbon, from 2003 to 2011.

Chairman of the IWA Water Safety Planning Specialist Group from 2011.

Member of General Assembly of the International Solid Waste Association, Vienna, from 2000 to 2010.

Member of the Strategic Planning Task Force of the World Engineering Federation Organisation (WEFO).

#### **Committee membership**

Coordinator of the Committee for University Planning, Portuguese Council of Rectors (1992-2002).

Member of the Portuguese National Public Works Council (Ministry of Public Works and Transports) (2000 - 2003).

Member of the Portuguese National Council of Water (Ministry of Environment) (1994-2009).

Member of the Advisory Council for the Portuguese Water and Wastewater Strategic Plan (Ministry of Environment).

#### **Scientific Research Evaluation**

Scientific and Technologic Research Projects Evaluator of FCT (Portuguese Foundation for Science and Technology).

Scientific and Technologic Research Projects Evaluator of CYTED Program, 2006, 2008 (Programa Iberoamericano de Ciencia y Tecnología para el Desarrollo).

Reviewer of scientific papers in journals (Water Research, Water Science and Technology, Environmental Geology) and international conferences (International Water Association).

#### **Conferences and Publications**

Author and editor of several books; has made numerous presentations at national and international scientific conferences, worked and lectured on Environmental Hydraulics Engineering field and technology transfer around the world; He chaired and co-chaired several international and national Conferences on Environmental Hydraulics Engineering.

#### **Some publications**

- Vieira, J.M.P.; Pinho, J.L.S.; Duarte, A.A.L.S. (1998) Eutrophication Vulnerability Analysis: A Case Study. *Water Science and Technology* Vol. 37, N° 3, pp. 121-128.
- Vieira, J.M.P. (1999) Decision Support Systems for Water Resources Planning and Management. In VII International Conference on Enhancement and Promotion of Computational Methods in Engineering and Science, (Edited by Bento J., Oliveira E.A. and Pereira E.), Vol 2, pp. 1197-1206. Elsevier Science Ltd, Oxford, UK.
- Pinho, J.L.S.; Duarte, A.A.L.S.; Vieira, J.M.P. (1999) Mesh Generation and Refinement in 2D Modelling. A case Study. In VII International Conference on Enhancement and Promotion of Computational Methods in Engineering and Science, (Edited by Bento J., Oliveira E.A. and Pereira E.), Vol 2, pp. 1167-1176. Elsevier Science Ltd, Oxford, UK.
- Vieira, J.M.P.; Duarte, A.A.L.S.; Pinho, J.L.S. (1999) A Contribution to Drinking Water Sources Protection Strategies in a Portuguese River Basin. In XXII World Water Congress. Buenos Aires, Argentina.
- Duarte, A.A.L.S.; Pinho, J.L.S.; Pardal, M.A.C.; Vieira, J.M.P.; Santos, F.S. (2000) Effect of Residence Times on River Mondego Estuary Eutrophication Vulnerability. In 1st World Congress of the International Water Association (IWA), Vol 5, pp. 401-408. Paris, France.
- Duarte, A.A.L.S.; Pinho, J.L.S.; Vieira, J.M.P. (2000) Tracer Experiments for Dispersion Modelling in River Douro Water Quality Management. In 1st World Congress of the International Water Association (IWA), F-2082. Paris, France.
- Pinho, J.L.S.; Duarte, A.A.L.S.; Vieira, J.M.P. (2000) Coupling an Environmental Database to a Geographical Information System. In 1st World Congress of the International Water Association (IWA), F-2081. Paris, France.
- Duarte A.S.; Pinho J.L.; Pardal, M.A.; Neto J.M.; Vieira J.M.P.; Santos F.S., (2001) Effect of Residence Times on River Mondego Estuary Eutrophication Vulnerability. *Water Science and Technology*, Vol. 44, n.º 2-3, pp. 329-336, IWA Publishing.
- Dias, M. C. B. F.; Vieira, J. M. P.; Valente, J. C. T.; Pinho, J. L. S. (2001) Calibration of Simulation Models for Water Supply Networks. Application to Water Supply System of Bragança, Portugal. In 2nd World Congress of the International Water Association (IWA), P-1104. Berlin, Germany.
- Pinho, J.L.S.; Vieira J.M.P.; Carmo, J.S.A. (2002) Application of a 3D Model for Submarine Outfalls Environmental Impact Assessment. A Case Study. In 3rd World Congress of the International Water Association (IWA), Melbourne, Australia.
- Vieira, J.M.P.; Pinho, J.L.S. (2002) Decision Support Systems for Water Resources Management in Coastal Zones. In 3rd World Congress of the International Water Association (IWA), Melbourne, Australia.
- Duarte, A.A.L.S.; Pinho, J.L.S.; Vieira, J.M.P.; Pardal, M.A.C.; Santos, F.S. (2002) Hydrodynamics Influence Assessment on Mondego Estuary Eutrophication Process. In 3rd World Congress of the International Water Association (IWA), Melbourne, Australia.
- Pinho J.L.S.; Carmo, J.S.A.; Vieira, J.M.P. (2002) Numerical Modelling of Oil Spills in Coastal Zones. A Case Study. In *Oil Spill 2002*, Rhodes, Greece.
- Pinho, J. L. S.; Vieira, J. M. P.; Carmo, J. S. A. (2003) Hydrodynamics and Water Quality Studies. in *Ria de Arosa Applying Mathematical Modelling*, Fundación Fomento del Mar, ISBN 84-607-6035-9, pp. 275-284.
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- Vieira, J.M.P.; Morais C.M. (2005) Planos de Segurança da Água para Consumo Humano em Sistemas Públicos de Abastecimento (*Drinking Water Safety Plans*). IRAR (Eds), Lisboa, Portugal. ISBN 972-99354-5-9.
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- Oliveira, R.E.S.; Lima, M.M.C.L.; Vieira, J.M.P. (2005) An Indicator System for Surface Water Quality in River Basins. In 4th Inter-Celtic Colloquium on Hydrology and Management of Water Resources. Portugal.
- Pinho, J.L.S.; Vieira, J.M.P. (2005) Mathematical Modelling of Salt Water Intrusion in a Northern Portuguese Estuary. In 4th Inter-Celtic Colloquium on Hydrology and Management of Water Resources. Portugal.
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- Ramísio, P.J.; Vieira, J.M.P. (2006) Heavy Metal Removal Efficiency in a Kaolinite-sand Media Filtration Pilot Scale Installation. In 8th Highway and Urban Environment Symposium. Nicosia, Cyprus.
- Vieira, J.M.P. (2006) The Situation of Water and Sanitation Services in Portugal. Workshop Public Policy in Water Supply and Sanitation. Oxford, UK.
- Lobo Ferreira, J.P.; Vieira, J.M.P. (Eds.) (2007) Water in Celtic Countries: Quantity, Quality and Climate Variability. IAHS Publication 310. ISSN 0144-7815. 358 pág.
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- Ramísio, P.J.; Vieira, J.M.P. (2010) Evaluation of Zn, Cu and Pb Sorption-desorption Phenomena in Kaolinite-Sand Media Filtration Pilot Scale installation. In Rauch, S.; Morrison, G.M.; Monzón, Andrés (Eds.) – *Alliance for Global Sustainability Bookseries, Science and Technology: Tools for Sustainable Development, Volume 17*. Springer, 2010, XIII, 416 p., ISBN: 978-90-481-3042-9 Hardcover.
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- Ramísio, P.J.; Vieira, J.M.P. (2010) Characterization of road runoff: A case study on the A3 Portuguese Highway. 10th Urban Environment Symposium, Chalmers University of Technology, Sweden.
- Breach, Bob; Hirata, R.; Vieira, J.M.P. (2011) Protecting groundwater supplies through a Water Safety Plan approach. An overview of best practice of WSPs and groundwater. *Water* 21, pp: 16-18.
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