

CURRICULUM VITAE

EDUARDO DE OLIVEIRA FERNANDES

EDUCATION

- 1967 Mechanical Engineer - University of Porto - Portugal
1973 Dr. ès Sciences Techniques - EPF Lausanne - Switzerland
1979 "Aggregation" (Heat Transfer) - University of Porto - Portugal

PROFESSIONAL CAREER

Teaching

- 1968-1970 Assistant - Department of Engineering - University of Lourenço Marques (Maputo) - Mozambique
1970-1973 Assistant and Postgraduate Student - EPF Lausanne (Federal Institute of Technology) - Switzerland
1974 Assistant-Professor - University of Lourenço Marques - Mozambique
1974-1980 Visiting Professor - Department of Environmental Engineering - University of Aveiro
1975-1979 Assistant Professor - Department of Mechanical Engineering - Faculty of Engineering - University of Porto (FEUP)
1979 Research Associate - Iowa State University - Ames – USA
1979-... Full Professor - Department of Mechanical Engineering - Faculty of Engineering - University of Porto (FEUP)

Academic Positions

- 1975 Founder of the GFC (Gabinete de Fluidos e Calor), the Applied Thermal Group of the Department of Mechanical Engineering (FEUP) and of the corresponding Research Group affiliated to the National Research Body Administration (INIC – 1980-95; FCT – 1995-...)
1980-1982 Chairman of the Department of Mechanical Engineering of FEUP
1982-1983 Chairman of the Scientific Council of the Faculty of Engineering of Porto University
1984-1995 Member of the Scientific Council for Engineering Sciences of the INIC (National Scientific Research Council)
1986-1991 Vice-Rector for International Relations and Co-operation with Industry (Innovation & Technology) - University of Porto
1988-1991 President of the General Council of the Instituto Superior de Estudos Empresariais (Business School of the University of Porto)
1989-1991 Chairman of the Executive Board of the Fundação Gomes Teixeira da Universidade do Porto (University Foundation)
1999 Member of the Evaluation Committee of the Portuguese Universities Foundation for undergraduate courses on Environmental Engineering and Landscape Architecture

Portuguese Government

- 1984-1985 Secretary of State for Environment - Portuguese Government
2001-2002 Secretary of State to the Minister of Economy for Energy and Innovation – Portuguese Government

Other Professional Positions/Activities

- 1976-1984 Consultant to the Secretary of State of Environment on Air Pollution Control. Co-ordinator of the Public Policies on Air Quality Management
1978-1981 Technical Director of the UNEP/WHO Programme on Air Pollution Control of the Lisbon Area
1979 Temporary Consultant for the WHO
1980 Responsible for the design of the first Solar House in Portugal
1980-2001 Associate at PROTERMIA - Porto, innovative consulting firm on Thermal Energy and Environmental Control
1981-1999 Convenor of the Drafting Committees of Portuguese Building Thermal Standards
1982-1984 Member of the Advisory Committee to the National Energy Plan

1982-1984	Consultant to the LNETI/INETI - National Laboratory for Industrial Engineering and Technology – Lisboa, for Renewable Energy namely Passive Solar Technologies in Buildings
1986	Temporary Consultant for the WHO
1991-2006	Chairman of the Environment Council of EDP (Portuguese Utility)
1993-1998	Consultant to the CCE - Centre for Energy Conservation - Lisboa on Energy Use in Buildings
1993-1998	Consultant to Expo'98 - World Fair - Lisboa - responsible for the definition and implementation of a concept on Energy and Environment in Urban Planning
1995, 1997	Consultant to the Ministry of Environment for matters related with the Environmental Impact of Industrial Waste Incineration and Co-Incineration
1995-1998	Member of Commission of Supervision (“Commissione di Colauodo”) of the Project of “Environment Park” in Turin – Italy
2002-2006	Chairman of the Commission for Buildings Thermal Regulations at the CSOPT (Ministry of Public Works)
2003	Member of the experts group of the EC working group Sustainable Construction Methods and Techniques.
2003-2006	Consultant to the Regional Government of Açores on Energy Planning to the promotion of Renewable and Efficient Energy Use, Açores, Portugal

Other Positions Held

1980-1985	Member of the Committee “Energy and Environment” of WFEO - World Federation of Engineers Organisations
1988-1995	Member of the Steering Committee, Secretary and Executive Vice-President (1991-95) of PLEA International - Passive and Low Energy Architecture
1989-1997	Member of the Board, Vice-President (1991-95) and President of the International Solar Energy Society (1995-97) – Freiburg - Germany
1989-1991	Director of APGEI (Portuguese Association for Management and Industrial Engineering) - Porto
1990-1991	President of the General Assembly of IDIT (Institute for Development of Innovative Technology) - Porto
1990-1991	President of the General Council of NET SA - the Business Innovation Centre of Porto
1990-1991	Member of the Executive Committee of the Santander Group (European Universities Network), Santander, Spain
1990-1992	Member of the Board of the European Association TII (Transfer of Technology, Innovation and Information) - Luxembourg
1992-1994	Chairman of Mechanical Engineers Branch, Portugal
2002-...	Chairman of the Advisory Board of APREN, the Portuguese Renewable Industry Association
2002-...	Member of the Board of the CNC – National Culture Centre - Lisboa
2003-2006	Chairman of the Advisory Board of the Energy Agency of Lisboa
2003-2006	Chairman of the general Assembly of SPES, ISES Portuguese section
2006-...	Member of the Board of Cogen-Portugal
2006-...	Member of the Advisory Committee of the “Portal Ambiente & Saúde”
2006-...	Member of the Porto Environmental Council

Scientific Positions & Activities

1980-1987	Founder and co-organizer of the Congress Series ICBEM - International Congress on Building Energy Management (Póvoa de Varzim – 1980; Ames (IA) – 1983; Lausanne - 1987)
1984-1995	Member of the Scientific Council for Engineering Sciences of the INIC (National Scientific Research Council)
1987	Member of the Scientific Advisory Board of the Congress Series "Experimental Fluid Mechanics, Heat Transfer and Thermodynamics"
1987-1991	Member of the Editorial Board of "Solar and Wind Technology" - Pergamon Press
1988-1992	Consultant on Energy in Buildings for DGXII-European Union
1988-1997	Member of Advisory Council of European Renewable Energy Centres Agency (EUREC) – Leuven – Belgium
1990-1993	Member of the Editorial Board of the "International Solar Energy Journal" - Harwood Academic Publishers

1992-2006	Member of the Steering Committee of the European Collaborative Action "Indoor Air Quality and its Impact on Man – JRC, ISPRA, Italy
1996	Member of the Panel of Evaluation of the 4th Framework programme, European Commission, Brussels
1998-2005	Reviewer of the Ministry of Environment of Italy for Research Activities on Urban and Energy issues
1998-2000	Co-ordinator of a Project on Sustainable Indicators for Energy and Environment in the Urban Planning Process – Portuguese Administration
2006	President of the Healthy Buildings International Conference, HB2006
2006	Member of the External Technology Audit Committee TNO Built Environment and Geosciences, TNO, Netherlands
2006	Member of the POC (Points of Contact) of the MIT-Portugal Cooperation Program
2006	WHO temporary adviser – 'Development of WHO guidelines for indoor air quality'
2006	Member of the 'Expert working group on Indoor Air Quality', DG Sanco, European Commission

Author and editor of several books and author of over hundred scientific papers.
He has been member of the scientific, advisory, steering or organizing committees of meetings all over the world and given hundreds of oral presentations.

Memberships

1974-...	Member and Fellow (2000) of Portuguese Engineers Society (Mechanical Branch)
1976-...	Member of AWMA - Air and Waste Management Association - Pittsburgh – USA
1979-	Member of ISES – International Solar Energy Society
1981-...	Member and Fellow (1997) of ASHRAE - American Society of Heating, Refrigerating and Air Conditioning Engineers – Atlanta - USA
1993-...	Member of ISIAQ - International Society of Indoor Air Quality - Helsinki
1999-...	Member of the Steering Committee of the European Collaborative Action: "Urban Air, Indoor Environment and Human Exposure" – Ispra - Italy

Participation in some specific research projects

- PERTE – “Program of Studies Related to Buildings Thermal Behaviour” (1989) *Coordinator*
- IAQ AUDIT – “European Audit Study in 56 Office buildings”; (1993-1995) *General Coordinator*
- EDBIAPS – “European Data Base on Indoor Air pollution Sources in Buildings”; (1994-1997) *Coordinator*
- EXPOCITIES – “Energy extensive planning of cities”, DG TREN Thermie Programme, BU 1002–96; (1996-2000)
- RESTART – “Renewable energies strategies and technology applications for regenerating towns”, NNE-THERMIE C Programme BU/1027/96 (E.C. 4th FWP); (1996-2001); Porto *Coordinator*
- AIRLESS - “Design, operation and maintenance criteria for air handling systems and components for better indoor air quality and lower energy consumption pre-normative research” – DG Research (XII), JOR3-CT97-0171; (1998-2000)
- MATHIS - “Materials for healthy indoor spaces and more energy efficient buildings” - DG Research (XII); JOR3 CT97-0194; (1998-2001) *Coordinator*
- SINOPSE – “System of Urban Planning Indicators for Energy and Environment”, DGOTDU / FGT, Portugal; (1999-2001) *Coordinator*
- ENERBUILD - “Thematic Network: Energy in the Built Environment” - DG Research ERK6-CT-1999-20001; (2000-2003)
- PRESCO - “European Thematic Network on Practical Recommendations for Sustainable Construction” - DG Research, EVK4-CT-1999-20003; (2000-2004)

- PeBBu - "EU Thematic Network: Performance Based Building" - DG Research; (2001-2005), PeBBu contact in Portugal for the Mediterranean Europe Platform, G1RT-CT-2001-05038
- INDEX – "Critical Appraisal of the Setting and Implementation of Exposure Limits in the EU" (ECA - JRC Ispra); (2002-2004)
- STRATEX -"Strategies to evaluate the contributions of indoor air pollution to human exposure" (ECA – JRC Ispra); (2002-2004)
- HOPE – "Health Optimisation Protocol for Energy- Efficient Buildings" - DG Research ENK6-CT-2001-00505; (2002-2004)
- EXPOFACTS (European Exposure Factors Sourcebook). Steering Committee member CEFIC – LRI contract No NMALRI-C1.5KTL-0207 and LRI-C1.5.1-KTLE-0512. (2002-2006)
- "Environmental Health in Schools" financed by Fundação Calouste Gulbenkian, Portugal; (2004-2006)
- ENVIE - "Co-ordination action on Indoor Air Quality and Health Effects" SSPE-CT-2004-502671; (2006-2008) *Coordinator*

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