



Sebastião Feyo de Azevedo*

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* The Author keeps up-to-date a website with the most relevant aspects of his *curriculum* (see URL above) from where those interested can download most of his publications.

I - Identification

Sebastião José Cabral Feyo de Azevedo - Born in Porto, Portugal, on June 1st, 1951, the son of Maria dos Prazeres Gonçalves Cabral da Silva Torres and Paulo Gonçalves Feyo de Azevedo.

- Married since 1974 to Maria José Gonçalves Coelho da Silva Feyo de Azevedo, with whom he has two daughters and three grand-daughters

Academic Qualifications - Licence (Second Cycle degree) in Chemical Engineering, University of Porto (U.Porto), Portugal (1973); Ph.D. in Chemical Engineering, University of Wales (Swansea), UK, 1982; 'Habilitation' in Chemical Engineering, U.Porto, Portugal (1996)

Professional position – Emeritus Professor of the Faculty of Engineering, University of Porto (FEUP) since the 30th October 2019; former Professor of Chemical Engineering in FEUP, since February 1998; keeps being Researcher of the Research Unit LEPABE – Laboratory for Process, Environment, Biochemical and Energy Engineering

Areas of interest and professional activity –

- At scientific level he has been working mainly in topics of Process Systems Engineering: modelling and identification with classical deterministic methods; optimisation; monitoring with software sensors; instrumentation and control; methods of adaptive-predictive control; applications of Artificial Intelligence and hybrid approaches to modelling, monitoring and control
- In the pedagogical domain, he has been promoting discussion of concepts and has been writing about issues of university education, with a main focus in (chemical) engineering education: new contents and programme structures; new concepts and methods of teaching and learning; the digital transformation of the academy in this evolution to *education without boundaries and walls*
- At a political and managerial level, he has also been in active discussion and writing about: issues of the Bologna Process and the creation of the European Higher Education Area, namely quality assurance issues; policies of governance and management of Higher Education Institutions

Main membership of professional and academic organisations

- Fellow of the Portuguese Ordem dos Engenheiros (Institution of Engineers, Portugal)
- Member of the Portuguese Academy of Engineering (by invitation)
- Founder member of the Portuguese Association of Engineering for Development and Humanitarian Assistance
- Founder member of the Portuguese Association for Automatic Control (APCA)
- Certified member “ING-PAED IGIP – International Engineering Educator” of IGIP – Internationale Gesellschaft für Ingenieurpädagogik (2011 -)
- Further, he is member of several other associations of cultural and sports public interest

II – Main institutional functions and activities

II.1 - In academic and scientific management at the University of Porto or externally on behalf

In individual institutional duties, by election or appointment

- Rector of U.Porto (27 June 2014 – 27 June 2018)
- Dean of FEUP (July 2010 – June 2014)
- Director of Studies of the PhD programme in Chemical, Petrochemical and Refining Engineering (2011 - 2014), in cooperation with AIPQR - Association of Chemical, Petrochemical and Refining Industries
- Head of Department, Chemical Engineering, FEUP (June 2001 – March 2010)
- Director of First and Second-cycle Studies in Chemical Engineering at FEUP (2001 - 2006)
- Director of Postgraduate Studies, M.Sc. in Automation, Instrumentation and Control, FEUP (2001-2003)
- Director of the Research Unit 'Institute for Systems and Robotics - Porto' (1997 - 2007)
- Chairman of the National Board of the Institute for Systems and Robotics (1997 - 2003)
- Responsible for International relations of the Department of Chemical Engineering, FEUP, with the coordination of the ERASMUS programme of those days (1989-2001)

In collective management bodies

- Member of the General Council of U.Porto (July 2009 – July 2010)
- Member of the Constituent Assembly of FEUP (June-November 2009)
- Member of the Executive Board of FEUP (1997 - 2001)

In external representation of the University or of the Council of Portuguese Rectors

- Representative of the Council of Rectors in the BFUG - Bologna Follow-up Group (2015 - 2018)
- Representative of the Council of Rectors in the National Education Council (2014 - 2018)
- President, in representation of U.Porto, of the General Council of the interface institute in electrical engineering (INESC TEC) and of the General Assembly of the interface institute in mechanical engineering and management (INEGI) (2014 - 2018)
- Member, in representation of FEUP, of the General Council of INESC TEC, of the General Assembly of INEGI and of the General Assembly of the Research Institute in Mechanical Engineering IDMEC (2014 - 2018)
- Member, in representation of U.Porto, of the General Assembly of the Porto Business School (2014 - 2018)
- Member, in representation of FEUP, of the General Council of the Porto Business School (2010 - 2014)
- Member, in representation of U.Porto, of the Council "Industry and University" of AIPQR (2009 - 2014)

II.2 - With the Portuguese Administration, at national and international level

- Member, by invitation, of the National Council for Science and Technology (2012 - 2014)
- National Delegate in the BFUG-Bologna Follow-up Group by appointment of the Minister of Science, Technology and Higher Education (November 2004–May 2005; December 2006–July 2010)

He was, in particular, the BFUG Chairman during the Portuguese Presidency of the EU (July-December 2007), having organized and chaired the Lisbon BFUG Meeting (2-3 October 2007)

- Member and Co-ordinator of the National Bologna Experts Group (April 2007 - July 2008)
- Co-ordinator of the National Follow-up Group for the Bologna Process, by appointment of the Minister of Science, Technology and Higher Education (April 2006 - 2009)
- Special Adviser to the Minister of Science, Innovation and Higher Education for the Bologna Process and National Coordinator of the Bologna Process (November 2003 – February 2005)
- Chairman of the Working Group of the Chemical Sector for EC Directive on Integrated Pollution Prevention and Control, by appointment of the Minister of Environment (June 2002 – April 2003)

II.3 - With the professional association, at national and international level

- National Vice-President and Chairman of the National Admissions and Qualification Board of The Institution of Engineers, Portugal (April 2004 – March 2010)
- Vice-president of the Administrative Council of ENAEE - European Network for Accreditation of Engineering Education (2009-2012)
- Representative of The Institution of Engineers in the General Assembly of ENAEE-European Network for Accreditation of Engineering Education since its foundation in 2006 till March 2010

Under this activity he was responsible (with the co-operation of Eng. António Salgado de Barros, Director of Quality of the Institution of Engineers) for the publication, on April 14, 2009, of the 'System for Quality Assurance OE+EUR-ACE, Foundations, Standards, Procedures', the basis for launching in Portugal the European Quality Assurance System for Engineering, EUR-ACE, having still been responsible for the accreditation of such Portuguese system by ENAEE.

- Chairman for September 2007 – August 2010 of the Working Party on Education (WPE) of the European Federation of Chemical Engineering (and Portuguese delegate to this Working Party, 1999- 2012)

During his mandate the WPE developed the document "EFCE Recommendations for Chemical Engineering Education in a Bologna Three-cycle System", approved by the EFCE Board on August 28, 2010

- Chairman of the National Committee FEANI- Fédération Européenne d'Associations Nationales d'Ingénieurs and representative in FEANI's General Assembly (2004 – March 2010)
- Member of the National Admissions and Qualification Board of The Institution of Engineers (1993-1998; 2001-2004)

II.4 - In international associations for education and science

- Member of the Board of Directors of CESAER - Conference of European Schools for Advanced Engineering Education and Research (2011 - 2014)
- Founder and member of the Administrative Council of ECEENA – European Chemical Engineering Education Network Association, International non-profit Association under Belgium Law, (2009-2011)
- Member of the European Union Control Association's (EUCA) Administrative Council (1999-2003, Treasurer from 2001 to 2003)
- Member of the Board of the Section of Biochemical Engineering Science of EFB (1995 - 1999)
- Portuguese delegate of the Portuguese Society of Biotechnology to the Working Party on Measurement and Control of the European Federation of Biotechnology (1989 -1999) and Vice-president of this WP from 1995.

III – National and International Awards

III.1 - National awards and distinctions, of the profession and of citizenship

- On the 12th of December 2018, he was made Honorary Member of the Alumni Association of the Faculty of Economy of the University of Porto and received the Association's Gold Medal, in recognition of his contribution for the promotion of this Alumni Association
- On the 24th of November 2018, by occasion of the National Day of the Institution, he received the Gold Medal of the Institution of Engineers, Portugal, in recognition of his contribution to the development of the engineering field and to the mission of the Institution
- *On the 30th of July, 2018, he was awarded by His Excellency the President of Republic, Marcelo Rebelo de Sousa, the Grand Cross of the Order of Public Instruction*
- On the 28th of June, 2018, he received the Gold Medal for Professional Merit of the City of Vila Nova de Gaia
- On the 3rd of April, 2018, he received the symbolic distinction of Honorary Ambassador of the Classical Orchestra of the Faculty of Engineering, University of Porto, for his support to the cultural activities of the Orchestra
- On the 17th of June 2017, he was awarded the recognition of the Institution of Engineers, North Region for his contribution to the development of the engineering domain, by occasion of the Day of the North Region
- Since the 6th of November 2016, he is Honorary Member of the Fraternity 'Tripas à Moda do Porto', an association that aims at promoting the oldest gastronomic tradition of the City of Porto
- On the 18th of July 2016, he received the Gold Medal and the status of Honorary Citizen of the City of Paredes, due to his links and cooperation with the City
- On the 14th of January 2016, he was distinguished with the 'Professional of the Year Award', by the Rotary Club Porto West
- On the 21st of November, 2015, he was made Member of the Queirosian Fraternity, an association that aims at promoting of the name and literary work of José Maria Eça de Queiroz (b. 1845 – d. 1900)

III.2 - International Distinctions concerning international cooperation

- On the 9th of February, 2018, he was awarded the Honorary Doctorate by the Ivane Javakhishvili Tbilisi State University, Georgia, on the occasion of its 100th Anniversary, for his contribution to international cooperation.
- On the 3rd of November 2017, he was distinguished with the Medal "Friend of the Brazilian Navy", established in 1966 to "grace civilian personalities, without permanent contracts with the Navy, that have distinguished themselves in the work of disseminating maritime mentality, in relationship with the Navy".

III.3 - International award concerning his academic and professional contributions

- He is the recipient of the Dieter Behrens Award, 2013, highest distinction of the European Federation of Chemical Engineering ([EFCE](#)), awarded every four years to an European personality in recognition of a significant contribution on behalf of the Federation in raising the profile of chemical engineering in Europe or in relation to the organization, management or development of EFCE's activity base (hyperlink to [Official Announcement](#) and [Award Ceremony](#) here or in the enclosed QR Codes)



III.4 - International prizes in R&D and concerning R&D&I with the industry

- In 1998, *Procter and Gamble best poster prize for innovation and presentation* awarded to his Ph.D. student Nuno Faria (out of 356 candidates) in the World Congress on Particle Technology: *Shape Characterization of Sugar Crystals* (co-authored with Pons M.N., E. Camarasa, H. Vivier, N. Faria and F. Rocha), paper 33, p. 33.1-33.8, Brighton, UK, 6-9 July, 1998
- In 1994, *George and Eleanore Meade Award*, distinction conferred by the *SIT-Sugar Industry Technologists Inc.*, organization that gathers at world level entities and companies that research and produce sugar, for the best scientific and innovative work presented to the annual congress of 1993: *On-line Monitoring of White Sugar Crystallization through Software Sensors*, work developed in co-operation with RAR-Refinarias de Açúcar Reunidas (co-authored with J. Chorão, M.J. Gonçalves and L. Bento), in Proc of the 52nd Annual Meeting of the Sugar Industry Technologists Inc., p.p. 217-251, Toronto, Canada, June 13-16, 1993

IV – Main productivity indices

- Permanent monthly contributor, between April 2015 and June 2018 with an Opinion Article in the daily national newspaper *JN-Jornal de Notícias*, having published 42 articles.
- Permanent weekly contributor, between June 2015 and June 2018, in a column ‘On Sunday’, in the daily national newspaper *JN-Jornal de Notícias*, having published 155 contributions.
- Sporadic contributor in other national newspapers, namely *Público*, *Expresso*, *Jornal de Negócios* and *Jornal Económico*
- Participant in 9 national projects, of which 6 as Coordinator and/or Scientific Director ; Portuguese coordinator of 14 international projects; Executive Director of 1 NATO ‘Science for Stability’ project
- Responsible for running 20+ years-equivalent of R&D contracts with the (Chemical) Industry
- Supervisor or co-supervisor of 12 Ph.D. and 3 M.Sc. theses concluded, of which 2 Ph.D. and 2 Masters in industrial environment (chemical industry)
- Co-author of 50+ refereed publications in SCI Journals, cited in SCOPUS; Co-author of 10 book chapters; Co-Editor of 1 book (Conference Proceedings); Author or co-author of 75+ refereed scientific conference papers; Author or co-author of 16 pedagogical documents related to his teaching activities

According to the [Google Scholar Source](#), up to the present his work has received 2166 external citations, exhibiting an H-Index of 24 and a i10 Index of 41

- Author of 170+ opinion and dissemination papers and general publications, in journals, workshops, conference proceedings and national newspapers, addressing both academic and professional matters, and issues of general public interest, with emphasis in the higher education reforms associated to the Bologna Process
- Author of 200+ invited conferences, seminars and/or advanced courses, both in scientific, education and professional matters, with emphasis in the higher education reforms associated to the Bologna Process

V – Other activities, as evaluator of education, science and innovation, and as organizer of international events

V.1 - As evaluator of education, science and innovation

- Member of the Editorial Board of the International Journal of Quality Assurance in Engineering and Technology Education (2011 - 2014)
- Member of the Editorial Board of the 'Journal of the University of Chemical Technology and Metallurgy', Sofia, Bulgaria (2010 - 2011)
- Evaluator for university promotions for The University of Newcastle (2012) and for University College Dublin (2013)
- External examiner of the undergraduate Chemical Engineering Programme of University College Dublin (2009 – 2011)
- National co-ordinator of the Evaluation Board for research grants in the area of chemical engineering of the National Foundation for Science and Technology (2006 - 2009)
- Member of the International Evaluation Panel of research at the University of Lund, Sweden (2008)
- Member of the Evaluation Panel of the Operational Plan for the Portuguese Economy, by appointment of the Minister of Economy - (March 2001 - April 2002)
- Evaluator for the Portuguese Innovation Agency (2002)
- Reviewer or Evaluator for CESAME - Center for Systems Engineering and Applied Mechanics, University of Louvain (2002) and for the Australian Research Council (2000)
- Referee for scientific international journals, namely Education for Chemical Engineers, Industrial Engineering Chemistry Research, Chemical Engineering Research and Development, Chemical Engineering Science, Computers and Chemical Engineering, International Journal of Heat and Mass Transfer, J. Process Control, Sensors & Actuators, Robust and Nonlinear Control.
- Evaluator and/or member of International Scientific and Programme Committees of several dozens of international conferences
- Chair or member of 120+ PhD or 'Habilitation' examination panels and/or academic professional selection panels

V.2 - As organizer of international science and education events

- Promoter of the Congress 'U.Porto 2016 – Thinking the Future', University of Porto, 26-28 October 2016
- Organizer of the First Annual Conference of the European Network for Accreditation of Engineering Education, Universidade do Porto, Faculdade de Engenharia, Porto, Portugal, 12-13 November 2012
- Organizer of the Annual Board of Directors Meeting of CESAER - Conference of European Schools for Advanced Engineering Education and Research, Porto (FEUP), Portugal, 30-31 May, 2012

- Organizer of the Annual Meeting of the EFCE Board with WP and Sections Chairpersons, 16 April 2010
- Organizer of the Business Meeting of the WP on Education, European Federation of Chemical Engineering, Porto, Portugal, 11-12 September, 2009
- Responsible for the organization of the Symposium 'Chemical Engineering & Society: Promoting academic and Professional mobility – international recognition of chemical engineering qualifications', in WCCE8 – 8th World Congress of Chemical Engineering, 27 August 2009, Montreal, Canada
- Chairman of the Official Bologna Seminar on 'Development of a Common Understanding of Learning Outcomes and ECTS', Porto, Portugal, 19-20 June 2008
- Chairman of the BFUG - Bologna Follow-up Group Meeting, Lisbon, Portugal, 2-3 October 2007, in the context of the Portuguese presidency of the European Union
- Executive Director of the Organizing Committee of ECC-European Control Conference 2001, Porto, Portugal, 3-7 September 2001
- Organizer of Summer School on BATCHPRO – Control of batch processes, Porto, Portugal, 31 August – 2 September 2001
- Organizer of the Meeting of the European Network – EuroChem, Porto, Portugal, 23-24-March, 2001
- Organizer of the Business Meeting of the WP on Education, EFCE, Portugal, 17-18 February, 2001
- Chairman of the Organizing Committee of ESBES2 - Second European Symposium on Biochemical Engineering Science, Porto, Portugal, 16-19 September, 1998