

## CURRICULUM VITAE

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### Education

PhD in Chemical and Biological Engineering, Universidade do Minho, Portugal, 2003  
Short Course in Sugar Refining, Nichols State University, Thibodeaux, LA, 1978  
Licensed in Chemical Engineering - Faculty of Engineering (Porto University) 1961/64  
Bachelor in Chemical Science - Faculty of Science (Coimbra University) 1958/61

### Areas of Specialization

36 years of experience of cane sugar refining  
Research on cane sugar colourants and decolourization processes, particularly with ion exchange resins.

### Professional Activities

Professor at Audubon Sugar Institute, LSU - Louisiana Sugar Institute, Baton Rouge, LA. U.S.A.; 2003-2006  
Sugar Technologist Consultant 2000 - 2003; 2007 –  
Sugar Technologist at RAR Sugar Refinery, Porto, from 1965 – 2000  
Process and Development Manager at RAR Sugar Refinery, from 1970 - 2000;  
Manager of DID - Development and Research Department at RAR, from 1978 – 2000;  
Visiting Professor of SCUT-South China University of Technology, Guangzhou, 2000 -  
INII - Instituto Nacional de Investigação Industrial (Lisbon) 1964-65.  
Director of Academia de Engenharia de Portugal, 2001 – 2003;  
President of the Portuguese National Committee of ICUMSA – 1989-2003;  
President of S.I.T. - Sugar Industry Technologists Inc., New York - 1998/9 and 1999/2000;  
Director of SPRI - Sugar Process Research Inc., New Orleans - from 1988 – 2000;  
Honorary Member of Italian Sugar Technologists Association;  
Honorary Member of IAREN – Instituto da Água da Região Norte.

### Awards

Frank Chapman Award for the best poster presented in SIT – Sugar Industry Technologist, Inc Conference in Vancouver 2004:  
S.P.R.I.- Sugar Processing Research Institute, Inc. Industrial Technology Award – 2000;  
S.P.R.I.- Sugar Processing Research Institute, Inc. Meritorious Service Award – 2000;  
Frank Chapman Award for the best poster presented in SIT – Sugar Industry Technologist, Inc Conference in Montreal 1997:  
Crystal Award for Outstanding Achievement in Sugar Technology – 1995, SIT -Sugar Industry Technologists, Inc.;

George and Eleanore Mead Award 1993 - for the best Paper presented in SIT - Congress  
- Sugar Industry Technologists Toronto- Canada:

Silver Medal in the Inventors' Exhibition IENA 90 - Nuremberga – RFA;

Gold Medal in the Inventors' Exhibition IENA 89 - Nuremberga – RFA:

George and Eleanore Mead Award 1989 - for the best Paper presented in S.I.T. Congress  
– Sugar Industry Technologists Inc." - New Orleans 1989.

### **Publications**

48 papers presented in sugar conferences and published in the main sugar technical magazines.

### **Patents**

International application WO 2006 / 050064; 11 May 2006

European Patent: application 95 941 248.7

U.S.A. Patent 5,932,106 / August 3, 1999

U.S.A. Patent 5,096,500 / March 17, 1992

U.S.A. Patent 5,019,542 / May 28, 1991

European Patent PT/19.10.88/ PT 88791.