

JOSÉ MARIA ALBUQUERQUE PROFILE

José Maria Albuquerque is currently Advisor to the R&D directorate of the Institute of Welding and Quality (**ISQ**), Portugal. He holds a PhD in Materials Science and Engineering, Lehigh University (Bethlehem, PA, U.S.A.), with a dissertation on “Tensile Superplastic Behavior of $YBa_2Cu_3O_{7-x}$ and $YBa_2Cu_3O_{7-x}/Ag$ High T_c Superconductors,” and a Licentiate Degree in Metallurgy and Materials Engineering (Distinction), *Instituto Superior Técnico, Universidade Técnica de Lisboa* (Lisbon, Portugal).

During the past five years, he has been called to serve the Portuguese Government in different capacities. He was Deputy High Commissioner for Health, *Ministry of Health* (March 2007-June 2010) being in charge of the Information and Prospective team following and updating the National Health Plan performance indicators; serving as permanent member of the Survey Committee of the National Health Plan; leading the successful development and implementation of the national Programme of Restructure of Central Public Administration (PRACE) the Integrated System for Performance and Management Evaluation of Public Administration (SIADAP) and representing the MH internationally (WHO, ECOSOC, EU). He was also Advisor to the Minister of Economy and Innovation in the Coordinating Unit of the Technological Plan, of the *Ministry of Economy and Innovation* (May-Dec 2005), co-authoring the National Technological Plan of the XVII Constitutional Government, with expert contributions on the National Innovation System, R&D public policies, interface agencies development and EU research and support frameworks. He was representative of the Ministry of Economy in the Lisbon Strategy Coordinating Unit (2005), contributing to the National Reform Program 2005/2008 (PNR) and the European Council Broad Integrated Economic Policy Guidelines.

As **Advisor and Senior Researcher at ISQ** (2001-05 and 2005-6) he implemented the R&D strategy for the Research Unit on Life Cycle Analysis and Industrial Welded Components, funded by the Portuguese Science Foundation and coordinated European Union (5th and 6th FWP, CECA) research and technological projects; technology transfer to industry. He co-authored of the vision paper and the Strategic research agenda of the European Technology Platform on Industrial Safety – ETPIS and the European Technology Platform for Advanced Engineering Materials and Technologies, EUMAT of the 7th FWP. He was expert evaluator to the European Commission on Nano Technologies and Nanoscience (FP6-2002-NMP) and to the International Science and Technology Center, 2005-6 and the Science and Technology Center of Ukraine 2006. He served on numerous conference, technical and governance committees for the Portuguese Materials Society (Fracture Mechanics Division) and for ISQ. He was National Representative to the Research Fund for Coal and Steel RFCS F4 (mechanical properties thin sheet) group. At the educational level, he taught undergraduate courses in Management and Technology Transfer Seminars at the Department of Applied Social Sciences, Faculty of Science and Engineering, Universidade Nova de Lisboa (2005-2007). Researcher at the Center on Management Innovation and Labour, at the same University, on organizations efficiencies, quality function development and performance improvement tools.

He is currently a Member of the **Steering Committee** of the The European Technology Platform on Advanced Engineering Materials and Technologies (**EuMat**).

and was Elected **Member of the Board** of the Regional College of Materials Engineering, **Engineering Society**, 2010-2013. He is currently member of the New York Academy of Sciences, the Portuguese Physics Society; the Portuguese Materials Society, the Portuguese Association for Health Economics and founding member of the Portuguese Association for Quality in Health.

SELECTED SCIENTIFIC SCI PAPERS

J.M. Albuquerque, P.A. Ramos, M.A. Gomes, and A.C. Cruz, " On the Fatigue Behaviour of Friction Stir Welded AlSi10Mg Alloy" *Rev. Metal*, Madrid, 41, 126-131 (2004). (3 citations in 2009)

J.M. Albuquerque and M.A. Fortes " Foam Patterning by Traversing Pins", *Philosophical Magazine A* 81 [9] 2233-41 (2001). (3 citations in 2009)

M. A. Fortes and **J.M. Albuquerque** " Two-dimensional Foam Fragmentation Produced by Traversing Pins", *Philosophical Magazine A* 81 [9] 2217-32 (2001). (3 citations in 2009)

J.M. Albuquerque, M.P. Harmer, and Y.T. Chou, " Tensile Superplastic Deformation of $YBa_2Cu_3O_{7-x}$ High T_c Superconductors", *Acta Materialia*, 49 [12] 2277-2284 (2001) (5 citations in 2009).

J.M. Albuquerque, M.P. Harmer, e Y.T. Chou, " Superplasticity and Microstructural Evolution of $YBa_2Cu_3O_{7-x}/25$ vol%Ag Composites"; pp. 323-31 in *Ceramic Transactions*, Vol. 118, *Grain Boundary Engineering in Ceramics*, ed. T. Sakuma, L. M. Sheppard, and Y. Ikuhara, American Ceramic Society, Westerville, OH, 2000.

J.M. Albuquerque, M. Fátima Vaz, and M.A. Fortes, " Effect of Missing Walls on the Compression Behaviour of Honeycombs", *Scripta Materialia* , 41[8] 167-74 (1999) (17 citations in 2009)

CONFERENCE PROCEEDINGS

C. A. Boynard, **J. M. Albuquerque**, A. C. da Cruz, L. Quintino and M. Vrhovac, " Parametric Analysis of ToFD Inspection" pp.200-14, in *Proceedings Conference Probabilistic Life/Crack Assessment and Preventive Maintenance in Industrial Plant*, Churchill College, University of Cambridge, ed. N.Le Mat Hamata and I. A. Shibli, ETD, UK, September 2004.

M Joensson, N Le Mat Hamata , S Concari, **J M Albuquerque**, and H Deschanel, " Sensitivity analysis of creep & fatigue crack growth in P22, P91, 1CrMo & 316SS steels using the HIDA KBS", pp.157-7, in *Proceedings Conference Probabilistic Life/Crack Assessment and Preventive Maintenance in Industrial Plant*, Churchill College, University of Cambridge, ed. N.Le Mat Hamata and I. A. Shibli, ETD, UK, September 2004..

A. Wünsche, **J. M. Albuquerque**, A. Casajus, F. Novello, and S. Pietzsch, "Fatigue Behavior of Tailored Blanks" pp 63-70, in Proceedings of 9th Portuguese Conference on Fracture, ESTS Setúbal, February 2004.

M.A. Gomes, and **J.M. Albuquerque**, "Overview of the Weldon Project: Improving design, Reliability and Operation of High Temperature Plants." pp 229-239, in Proc. 2nd Int. Conf. Integrity of High Temperature Welds, ed. T. H. Hide, The Inst. Mat. M &M, London, Nov. 2003.

P.A. Ramos, M.A. Gomes, A.C. Cruz and **J.M. Albuquerque**," The Effect of Repair Welds Upon the Residual Stress Distribution on a Girth Weld in 316H Steel Pipe," pp. 177-83, in Proceedings of the 3rd "Hida" and "Integrity" International Conference, Instituto de Soldadura e Qualidade, Portugal, 2002.

J.M. Albuquerque, M.P. Harmer, and Y.T. Chou, "Influence of Superplastic Deformation on $YBa_2Cu_3O_{7-x}$ and $YBa_2Cu_3O_{7-x}/25 \text{ vol.\%Ag}$ Superconductivity." pp. 367-375, in Proceedings of the 2nd International Conference on Shaping of Advanced Ceramics, ed. J. Luyten and J-P Erauw., Belgium, 2002.

J.M. Albuquerque and J. Yun, "Fracture Toughness of Superplastically Deformed $YBa_2Cu_3O_{7-x}/Ag$ Composites" CD-ROM, 8th Portuguese Conference on Fracture, Universidade de Trás-os-Montes e Alto Douro, Vila Real, Portugal, February, 2002.

J.M. Albuquerque, M. Fátima Vaz, and M.A. Fortes, "Comportamento Mecânico de Favos-de-Mel em Kevlar," pp. 67-74, in Proceedings 9th Meeting of the Portuguese Materials Society, Vol. II, ed. F. Castro and M. Cruz, Guimarães, Portugal, 1999.

ESSAYS

"Health Expenses, Cost or Investment?" M.C. Machado, **J.M. Albuquerque**, P.J. Nicola, Newspaper, Expresso, July 26, 2008 (in Portuguese).

"Technology, Talent and Tolerance" **J.M. Albuquerque**, S.A. Garcia, J.A. Tavares, Newsletter, Criar Cultura (Ministry of Culture), November 2005 (in Portuguese).

"The New Economy: Nanotechnology" P. J. Ferreira, **J.M. Albuquerque**, Newspaper, O Público, June 20, 2005 (in Portuguese)

"Who Speaks For Us?" P. J. Ferreira, **J.M. Albuquerque**, Newspaper, O Público, March 14, 2005 (in Portuguese)

"Time for a new currency" **J.M. Albuquerque**, M.M. Rosa, Newspaper O Público, January 3, 2005 (in Portuguese)

"Financing R&D of Others" **J.M. Albuquerque**, Newspaper O Público, December 20, 2004 (in Portuguese)

"Madeira, Nimbies and Bananas" **J.M. Albuquerque**, Newspaper O Público, September 13, 2004 (in Portuguese)

“Terminus Lisbon” **J.M. Albuquerque**, Newspaper O Público, May 24, 2004 (in Portuguese)

BOOKS

A. Wünsche, S. Pietzsch, A. Casajus, C. Melspont and **J. M. Albuquerque**, *Improved Fatigue Strength of HSS Tailored Blanks*, European Commission, Directorate General for Research, RFCS, Office Publications of the European Communities, Luxembourg, 2006.

POSTER AWARDS

Amongst more than 14 posters presented at International Conferences:

J.M. Albuquerque and M.A. Fortes, “Two and Three-dimensional Liquid Foam Patterning by Displacing Pins.” presented to the EuroConference on Foams, Emulsions and Applications, in Delft, the Netherlands, 4-8 June 2000. **Third prize winner of the Prof. John Earnshaw.s Memorial Prize.**

J.M. Albuquerque, M.P. Harmer, e Y.T. Chou, “Coarsening of Silver Induced by Tensile Superplastic Deformation in YBa₂Cu₃O_{7-x} /Ag Composites”. Ceramographic Poster, American Ceramic Society Annual Meeting, Cincinnati, Ohio, May 1995. **Second prize winner, in Scanning Electron Microscopy category**; published on the back cover of the Journal of the American Ceramic Society, May, 1996.

INDUSTRIAL REPORTS

J. M. Albuquerque, J. Baur, ”Tensions Internes Dans les Tôles de Bandes en Pe 300/24,” Alusuisse n° 861/88 (in french).

J. M. Albuquerque, J. Baur, ”Peau d’Orange Dans les Tôles d’Ac 110 Laminées à Chaud Fini,” Alusuisse n° 862/88 (in french).

SELECTED PUBLICATIONS ON HEALTH

J.M. Albuquerque, “*O Plano Nacional de Saúde 2011-16, O contributo do sector social para o Plano Nacional de Saúde*” actas do **3º Fórum Nacional de Saúde** (8 de Março de 2010), [in print] (in Portuguese).

J.M. Albuquerque and M. C. Machado, ”Health in All Policies: a reflection”, pp 72-3, *Janus 2009 Anuário de Relações Exteriores*, Público e Universidade Autónoma de Lisboa, 2009 (in Portuguese).

J.M. Albuquerque and J. P. Miguel, ” Health System Impact Assessment and the High Level Group on Health Services and Medical Care” Proceedings of the EU Ministerial Conference, Rome 18 December 2007, [in print] www.acs.min-saude.pt/en/papers

Co-authorship *Estratégias de Saúde em Portugal, O Plano Nacional de Saúde 2004-2010*, Alto Comissariado da Saúde, Lisboa 2008 (in Portuguese).

Co-authorship *Health Strategies in Portugal – The National Health Plan 2004-2010*; The Office of the High Commissioner for Health; Lisbon 1st ed.2007, revised 2nd ed. May 2008, revised 3rd edition November 2009.