

Philippe Marcus

Short Curriculum Vitae

Born 14 February 1953

Married, 2 children

Graduated from Ecole Nationale Supérieure de Chimie de Paris (ENSCP) (1975)

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Pr. Philippe Marcus is Director of Research at CNRS (Centre National de la Recherche Scientifique) and Director of the Laboratory of Physical Chemistry of Surfaces at Ecole Nationale Supérieure de Chimie de Paris, France. Dr Marcus received his Ph. D. (1979) in Physical Sciences from University Pierre and Marie Curie, Paris, France.

His field of research is surface chemistry, surface electrochemistry, and corrosion science, with emphasis on the understanding of the structure and properties of metal and alloy surfaces.

His research interests include the growth mechanisms and structure of oxide layers on metals and alloys in gaseous and aqueous environments, adsorption of inorganic, organic and biomolecules, the mechanisms of corrosion of metals and alloys at the nanoscale, passivity, passivity breakdown and localized corrosion, high temperature oxidation, and the applications of advanced surface analytical methods such as X-ray Photoelectron Spectroscopy, Scanning Tunnelling Microscopy and Time of Flight Secondary Ions Mass Spectrometry.

Dr. Marcus has published over 300 papers in scientific journals, books and conference proceedings in the areas of corrosion science, surface chemistry and electrochemistry, surface analysis and materials science, plus two books "Corrosion Mechanisms in Theory and Practice" and "Analytical Methods in Corrosion Science and Engineering". He has given over 90 invited lectures at International Conferences. He serves on the editorial board of five major journals in Electrochemistry and Corrosion: *Electrochimica Acta*, *Corrosion Science*, *Materials and Corrosion*, *Corrosion Engineering, Science, and Technology*, and *Corrosion Reviews*. Pr. Marcus has received a number of awards and honors, including the 2005 Uhlig Award from the Electrochemical Society, the 2008 Whitney Award from NACE International, the Cavallaro Medal of the European Federation of Corrosion in 2008, and the 2010 U. R. Evans Award of the Institute of Corrosion (UK). He is an elected Fellow of the Electrochemical Society (2005) and of the International Society of Electrochemistry (2009).

Dr. Marcus is currently President of the European Federation of Corrosion, Chairman of the EFC Working Party on Surface Science and Mechanisms of Corrosion and Protection, Chairman of the International Steering Committee for the European Conferences on Applications of Surface and Interface Analysis, Chairman of the Scientific and Technical Committee of CEFACOR (Centre Français de l'Anticorrosion). He is on the Board of Administrators of the World Corrosion Organisation. He was also Chairman of two divisions of the International Society of Electrochemistry: Electrodeposition, Corrosion and Surface Treatments, and Electrochemical Materials Science.

Dr Marcus has organised or co-organised several international conferences. He was the Chairman of ECASIA (the European Conference on Applications of Surface and Interface Analysis, Avignon (F), 2001), EUROCORR (the European Corrosion Conference, Nice (F), 2004) and Passivity-9 (the 9th International Conference on the Passivation of Metals and Semiconductors and the Properties of Thin Oxide Layers, Paris (F), 2005). In 2006 he was the Chair of the Gordon Research Conference on Aqueous Corrosion (New London, NH, USA). He was again the Chair of EUROCORR in 2009, and of EMNT (Electrochemical Micro and Nanosystems Technologies) in 2010.

Publications of Philippe Marcus in International Journals

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