

Prof. Eno E. EBENSO



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Prof Ebenso obtained his PhD in Physical Chemistry from the University of Calabar, Nigeria (2004); MSc in Physical Chemistry from the University of Ibadan, Nigeria (1990) and B.Sc Honours in Chemistry with Second Class Upper Division from the University of Calabar, Nigeria in 1986. He started his university teaching career at the University of Calabar, Nigeria in 1990 as an Assistant Lecturer. He was promoted to Lecturer II (1993), Lecturer I (1997) and Senior Lecturer (2001). He proceeded to the Institute of Materials Research, Darmstadt University of Technology in Germany for a postdoctoral fellowship in 2005. In 2006, he was on sabbatical leave at the Department of Chemistry in the University of Uyo. He continued his academic career at the Department of Chemistry and Chemical Technology at the National University of Lesotho, Southern Africa. On joining the North-West University (Mafikeng Campus) in South Africa as a full professor of Physical Chemistry in the Department of Chemistry in 2009, he has served in several administrative positions in the university system as Subject Chair – Chemistry; Director – School of Mathematical and Physical Sciences; Executive dean of the Faculty of Agriculture, Science and Technology; Acting Director of the Material Science Innovation and Modelling Research Focus Area (MaSIM). He was the Acting Vice Rector (Research and Planning) at the North-West University, Mafikeng Campus (South Africa). He was the Executive Dean of the Faculty of Natural and Agricultural Sciences at the entire North-West University until Dec 31st 2019.

His research interest span through physical chemistry (electrochemistry, kinetics, adsorption, thermodynamics of corrosion – extensive researches on corrosion inhibition in different media using electrochemical, gravimetric, gasometrical and thermometric methods; synergistic and antagonistic studies. Plant extracts, exudate gums, polymers, ionic liquids, synthetic organic and inorganic compounds have been investigated as inhibitors. Quantum chemical / molecular modeling and theoretical studies of compounds used for corrosion inhibition studies using density functional theory (DFT) and other semi-empirical methods, solid state chemistry/contemporary materials chemistry and physics (thin film deposition using nebulized spray pyrolysis technique). He is currently interested in using some quantum chemical methods like density functional theory (DFT) and other semi-empirical methods to study corrosion inhibition efficiencies of compounds/ surface analysis and interface reactions; extensive quantitative structure activity relationship studies (QSAR); Molecular dynamics/ Monte Carlo Simulation studies.

He is a member of several scientific professional bodies namely: Member, Chemical Society of Nigeria (MCSN), American Chemical Society (MACS), NACE, International Corrosion Society, Nigerian Corrosion Society, Soc. for the Adv. of Electrochemical Science & Technology (SAEST), Chemical Society of Ethiopia, International Society of Electrochemistry, South African Chemical Institute (M.S.A. Chem. I.), South African Council for Natural Scientific Professions (SACNASP) (Pri. Sci. Nat). He is a Fellow, Royal Society of Chemistry, UK (FRSC) and a member, Academy of Science of South Africa (ASSAf).