

## Jay Deep WADHAWAN



Born in June, 1978, **Jay Deep WADHAWAN** (Hirsch index of 19) is currently Lecturer in Toxicology/Bioanalytical Chemistry within the Department of Physical Sciences (CHEMISTRY) at The University of Hull, United Kingdom. He is one of the editors of *International Journal of Electrochemistry*, and is editor of *The Electrochemistry Newsletter* for the Royal Society of Chemistry Electrochemistry Group (for whose Executive Committee he serves as an SCF-Collaborator), Society of Chemistry in Industry Electrochemical Technology Group, and the Royal Society of Chemistry Electroanalytical and Sensing Systems Group. He is a co-author of approximately fifty publications, and a co-inventor of two patent families (one granted). He is a member of the International Society of Electrochemistry, Electrochemistry Society, the Société Chimique de France and a Life-Long Member of the Indian Society for Electroanalytical Chemistry. He will take up an Honorary Professorship at ENSCPB in Bordeaux, France in December, 2010, and an Honorary Professorship at the infamous Laboratoire d'Electrochimie Moleculaire at Université Paris Diderot, France in April, 2011.

Jay Wadhawan was awarded a Bachelor of Arts (with unclassified Honours) degree in Chemistry at St. John's College, Oxford in June, 1999, and a Class I (with Honours) Master of Chemistry Degree with Distinction in Quantum Chemistry Supplementary Subject in July, 2000, following training for his Part II research thesis under the direction of **Dr. Frank MARKEN** and **Professor Richard G. COMPTON** in the field of *Electrochemistry at Liquid | Liquid Interfaces*. During this period, he was a recipient of eight College Book Prizes for performance in Collections between 1997 - 2000, a Turbutt Prize in Practical Organic Chemistry in July, 1998, and a Casberd Scholarship between 1997 - 2000. Prior to this, he held a Hale Scholarship (1996 - 1997) and a King Edward VI Scholarship (1994 - 1995). He experienced doctoral research studies under the auspices of **Professor Richard G. COMPTON** (Physical and Theoretical Chemistry Laboratory) in collaboration with **Professor Clive E. W. HAHN** (Department of Anaesthetics, Oxford University), funded by EPSRC in association with A $\mu$ C Sensing, Ltd, in the field of *Electrochemical Sensor Engineering*, completing after *viva voce* examination by **Professor Laurence M. PETER** (Bath University) and **Professor H. Allen O. HILL, FRS** (Oxford University) in November, 2003.

Jay Wadhawan was awarded a 24-months Leverhulme Trust Scholarship in September, 2003 to undertake post-doctoral research training in *Electrochemistry in Nanometric Environments*, supervised by **Professor Emmanuel MAISONHAUTE** and **Professor Christian AMATORE** at Ecole Normale Supérieure, Paris, France, which terminated early, with permission, so he could take up his current position at Hull University on August 15, 2005. He graduated with a Post-graduate Certificate in Learning, Teaching and Assessment in Higher Education from Hull University in June, 2010.

Jay Wadhawan's current research focuses on (1) molecular (photo)electrochemistry and its applications in information transfer, energy conversion, carbon recovery and re-use, (2) in the use of molecular electrochemistry to unravel biophysical phenomena such as the quantification of the flagellar hydrodynamics of human sperm cells (in association with the IVF unit at Hull Royal Infirmary), and charge transport in biofilms of bacteria such as *Pseudomonas sp.*, and of the zoospores from *Ulva* (formerly *Enteromorpha*), and (3) in the development of molecular electrochemical sensor technologies, and associated mathematical modelling, with permission or funding *via* monies from Research Councils (EPSRC, BBSRC), companies (Boots The Chemists, Plc, Analox, Ltd.), Regional Development Bodies (YorkshireCONCEPT, White Rose Partnership, Centre for Low Carbon Futures) and charities (Leverhulme Trust, Heart Research UK, Nuffield Foundation, Higher Education Academy, Her Most Royal Majesty's Crown Estate).