

Curriculum Vitae - Dr. Tan Yong Jun

DATE OF BIRTH: 12, March 1963
NATIONALITY: Chinese Australian
MARITAL STATUS: Married (three children)



Dr Tan is currently an Associate Professor and Director of Corrosion/Undergraduate Laboratory in the School of Materials Engineering, Nanyang Technological University, Singapore. He has worked in the fields of Corrosion and Applied Electrochemistry for 19 years. His work has spanned the range from lecturing, basic research, industrial R&D to engineering applications and has focused on corrosion science and electrochemistry, anti-corrosion methods and materials (such as surface coatings, inhibitors, surface treatment and modification). He has successfully completed several major research programs and so far has authored/co-authored some 70 scientific and technical publications (mostly referred international journal and international conference papers). He has also contributed to 25 industrial research reports, obtained one US patent and three Chinese patents, and received several Fellowships and Awards including a Fellowship from Australian Research Council (1999), the AMAC Australasian Corrosion Research Award (1996, at the 13th International Corrosion Congress), the Australian Overseas Postgraduate Research Scholarship (1993 - 1996) and an Excellent Research Paper Award from Chinese Association of Corrosion & Prevention (for young researchers, 1991). Dr Tan has made key contributions to the following research outputs:

- (i). The invention of the wire beam electrode, and the subsequent development of its theory and an industrial corrosion probe (US patent 6132593);
- (ii). The statistical linear polarization theory of electrochemical noise resistance and the extended application of the noise resistance method;
- (iii). The development of a high performance thin-film rustproof-lubricating oil, now marketed as GY-12 ultra thin rustproof oil in China.

Prior to joining NTU, Dr Tan taught Corrosion Technology at the Curtin University of Technology, Australia (1997-1999). Currently Dr Tan's main teaching subjects at NTU are Engineering Chemistry and Corrosion Engineering for undergraduates, higher degree research programs for Masters and PhD candidates, and two short courses for industrial personnel.