



























- [32] T.A. Aoieong, S.L. Tang, and S.M. Ahmed, "A process approach in measuring quality costs of construction projects: model development", *Construction Management and Economics*, 20, 2002, pp. 179 - 192.
- [33] The Association of Cost Engineers, Retrieved from: <http://www.acoste.org.uk>, 2014.
- [34] G. Cokins, AACE International, "Skills and Knowledge of Cost Engineering", Section 5 (Project Management) Chapter 23 (Quality Management). Retrieved from AACE: <http://www.aacei.org>, 2001.

## **BIOGRAPHY**

**Dr Hannelie Nel** (DEng, MScEng, BEng) is a Senior Engineering Consultant and holds a Doctorate in Engineering Management from the University of Johannesburg, a Master of Science in Engineering from the University of the Witwatersrand and a Bachelors in Chemical Engineering from the University of Pretoria. To date has spent seventeen years in both industry and academia. Her work entails strategy development and implementation, business system improvement, quality costing and technology transfer. During her professional career she's received various national awards for her contribution to industry, academia and Industrial Engineering. Dr. Nel was President of the Council of the Southern African Society for Industrial Engineering from 2009 – 2010 and is now a registered Fellow of the SAIIE. She currently serves on the Boards of the South African Society for Engineering Education and the Metal Casting Technology Station of the University of Johannesburg; and is an international author and speaker in her field of expertise.

**Professor Jan-Harm Pretorius** (Pr Eng, SMIEEE, FSAIEEE) holds a BSc Hons (Electrotechnics), MSc (Pulse Power and Laser Physics), and M Ing and D Ing degrees in Electrical and Electronic Engineering. He was a senior consulting engineer at the South African Atomic Energy Corporation, technology manager at the Satellite Applications Centre at the CSIR, and is currently Head of the Post-Graduate School of Engineering Management at the University of Johannesburg. He is involved in measurement and verification of energy saving for Eskom and Nampower. He has authored 120 research papers and supervised over 20 PhD and 120 Master's students.