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Professional Experience

- **1994-Present.** Argonne National Laboratory, Group Leader and Senior Scientist, Battery Technology Department, Chemical Sciences and Engineering Division.
- **1983-1994.** Council for Scientific and Industrial Research (CSIR), National Institute for Materials Research, Pretoria, South Africa (Group Leader, Senior Researcher, Research Manager).
- **1981-82; 1985.** Oxford University (Postdoctoral Appointee, Academic Visitor).
- **1973-1982.** CSIR, National Physical Research Laboratory, Pretoria, South Africa (Research Officer, Chief Research Officer).

Education

- Ph.D., Chemistry, University of Cape Town, South Africa.
- M.Sc., Chemistry, University of Cape Town, South Africa.
- B.Sc. (Honors), Chemistry, University of Cape Town, South Africa.

Research Interests

- Energy materials
- Solid state electrochemistry – structure-electrochemical property relationships
- Structural design of electrode and electrolyte materials for battery systems
- Ionic and electronic transport phenomena in solids – phase transitions
- Surface phenomena – electrode/electrolyte interactions

Professional Activities

- Electrochemical Society
 - Electrochemical Society, Materials Research Society
 - Electrochemical Society Technology Award Committee (2004-2007, Chairman 2006-2007)
 - Electrochemical Society Publications Committee (2005-present)
- International Battery Association
 - Board Member and Trustee, (1994-present)
 - IBA President, (1999-2002)

- International Union for Pure and Applied Chemistry (IUPAC), Commission II.3 (High Temperature and Solid State Chemistry, Associate Member 1988-1995)
- Editorial Board, Journal of Power Sources (1994-present)
- Editorial Board, Journal of Materials Science and Engineering B, (2003-present)
- International Scientific Committee, 7 th to 13 th International Meetings on Lithium Batteries (1994-2006)
- Organizing Committee: IBA Symposia (Chicago, 2000; South Africa, 2001; Hawaii, 2003)
- Testifying expert in an international lawsuit (2003-present)
- Technical expert and advisor to the Judge of the Boston Court in a civil action (2002)
- Pre-1994 (South Africa) Served on Committees of:
 - SA Chemical Institute (Northern Transvaal Section)
 - SA Crystallographic Society
 - National Program for Energy Research

Awards

- Recognized on the Commemorative Wall at The Innovation Hub (South Africa) for Contributions as a South African to International Science and Technology, (2005)
- Research Award of the Battery Division of the Electrochemical Society, (2005)
- University of Chicago Distinguished Performance Award, (2003)
- International Battery Association Service Certificate, (2003)
- Institute of Scientific Information (ISI) Highly Cited Researcher, (2001)
- Argonne National Laboratory Pacesetter Award, (1996)
- International Battery Association Research Award, (1993)
- CSIR Outstanding Achiever Award, (1990)
- South African Institute of Physics Silver Medal, (1983)

Publications & Patents

- Publications: 180
- Patents: 28