



PO Box 15558, Emerald Hill, 6011
South Africa
Cell: 082 554 8900
Tel: 041 367 2933 Fax: 086 657 1612
E-mail: francois@softchem.co.za
Website: www.softchem.co.za

- water and waste management
- environmental assessments
- environmental management
- industrial market research
- dedicated software

CURRICULUM VITAE

NAME: John Francois Curling Friend

EDUCATION: BEng (Chem) Pretoria 1986
MSc (Eng) Cape Town 1991
Dip MktM IMM 1995

AFFILIATIONS: FSAICHe FICHeM (UK) FWISA FIWM (SA)

REGISTRATIONS: PrEng (SA) CEng (UK)

SPECIALISATION: Water management, treatment and recycling. Air quality and waste management. Environmental management, economics, assessments and auditing. Technical audits and effluent treatment. Specialised computer applications.

EXPERIENCE:

1991 - Present Softchem, founder member. Waste management, water management and water balances, water treatment dedicated software, functional specifications and operating manuals for water treatment plants, technical and environmental auditing, environmental impact assessments and evaluations, environmental management programmes, environmental consulting and ISO 14001 environmental system implementation, industrial market research. See website for more detail on projects and clients.

2005 - Present SI Analytics (Pty) Ltd., Business Manager. Supplying air monitoring equipment to industry and government. As co-director and 50% owner developed the company bought from its original owner from sales of R 4 million in 2005 financial year to in excess of R 40 million in 2014 financial year (annual growth of more than 29% per year). Company was sold to a listed company during 2012 with the original two directors still managing the company. Responsible for complete financial software overhaul of the company's bookkeeping system in 2008, financial accounting of the company until its sale and execution of projects.

1997 - 2016 Waterops (Pty) Ltd., Director: Operations and Marketing. Water treatment plant operations and troubleshooting.

1998 - 2007 University of Pretoria, Department of Chemical Engineering, Senior Lecturer. Responsible for the Environmental Engineering Group lecturing engineering and postgraduate courses in environmental management, air quality management, waste management, air pollution control and water management; and supervision of postgraduate students.

1992 - 1998 Eskom Technical Audit Division, Chief Consultant (Water Management). Project leader for a variety of multi disciplinary audit projects. Environmental management and audits. Water management and treatment. SAATCA registered lead auditor. Chairman Eskom Waste Management Forum. International exposure in water treatment and flue gas desulphurisation through extended overseas visits to Japan, USA, United Kingdom, France and Germany.

1990 - 1992 Eskom Chemical Engineering Division, Design Engineer. Water management studies at numerous power stations and external to Eskom, eg Soda Ash Botswana. Effluent treatment plant design.

1988 - 1990 Koeberg Nuclear Power Station, Engineer in Training. Water treatment plant operation and troubleshooting, sodium hypochlorite production, sewage treatment and water chlorination plants, ion exchange resins.

1985 - 1986 Eskom Chemical Engineering and Chemistry Division, Engineering Assistant. Air pollution, flue gas desulphurisation processes, boiler acid cleaning. (National military service: 1986 - 1988).

PUBLICATIONS: Co-author of *Chemical Conditioning of Low and Medium Salinity Waters - STASOFT Version 3.0* and author of *Stasoft V*.
Co-author of *Roadmap to environmental legislation in South Africa*.
Author of *Environmental management in South Africa: the blue model*.