

## J A v B Strasheim



### Education

1974 B Sc Eng cum laude	: University of Pretoria
1976 M Eng cum laude	: University of Stellenbosch
1980 B Sc (Computer Science)	: University of South-Africa
1984 Hons B (B+A) cum laude	: University of Stellenbosch
1988 M B A	: University of Stellenbosch
2007 Ph D	: University of Stellenbosch

### Professional Activities

Professional Engineer	: Engineering Council of SA (#820107)
Member	: SA Institution of Civil Engineers
Member National Committee	: SA Institution of Civil Engineers Information Technology Division

### Professional Career

1975-1977 - University of Stellenbosch (Lecturer)

*Presenting lectures on structural analysis and design*

- R J du Preez and Collaborators

*Structural analysis and design*

1978-1979 - Department of Water Affairs (Assistant Engineer)

*Usutu-Vaal Government Water Scheme. Engineer's Representative for the Duvha-Hendrina pipeline contract*

1979-1985 - University of Stellenbosch (Senior Lecturer: Research)

*Institute for Structural Engineering*

1985-1988 - Geustyn Forsyth & Joubert Inc (Engineer)

1988-1995 - Geustyn Forsyth & Joubert Inc (Associate)

*Engineer Computer Department: Specialising in systems for infrastructure management and technical and business computer applications*

1990-1995 - Engineering Infrastructure Management (Pty) Ltd

*Director of GFJ subsidiary specialising in providing a service for the management of civil infrastructure*

1995-Date Breda Strasheim Praktyk CC

*Member of technical and business consulting practice*

1996-Date University of Stellenbosch – Department of Civil Engineering

*Senior Lecturer Department of Civil Engineering and Institute for Structural Engineering*

1995 - University of Cape Town - External examiner for Department of Civil Engineering, Post Graduate Courses

1991-1992 - University of South Africa - External examiner for Graduate School of Business Leadership

1991-1992 - Cape Technicon - External examiner for School of Civil Engineering

## J A v B Strasheim

### Publications and Conference Contributions

Toepassing van eindige elementmetodes vir die strukturele ontwerp van die magnete, vakuumkaners en resonators van 'n oopsektor siklotron

*Co-author R J du Preez*

*SA Tydskrif vir Natuurwetenskap en Tegnologie 3, No. 7, 1984*

An overview of the implementation of the finite element method for large scale static and dynamic structural analysis

*FEMSA/81 Conference CSIR Pretoria, March 1981. Co-author RJ du Preez*

Finite strip elements for structural analysis

*FEMSA/84 Conference CSIR Pretoria, March 1984. Co-author RJ du Preez*

The dynamic response of a highrise concrete building to unbalanceable gyratory crusher forces

*FEMSA/85 Conference University of Stellenbosch, February 1985. Co-author JM Louw, PE Dunaiski, CBF Vermeulen*

'n Gerekenariseerde databasis inligtingstelsel vir munisipale rioolnetwerke

*SAICE Eleventh National Symposium on Computing in Civil Engineering, Bloemfontein, May 1989*

Database information systems for municipal pressure pipe networks

*SAICE Twelfth National Symposium on Computing in Civil Engineering into the 1990's, Pretoria, May 1990 and*

*The Civil Engineer in South Africa, October 1990*

Die Welkom Waterplan – 'n Hulpmiddel vir Bestuur,

*Transaksies van die Instituut van Munisipale Ingenieurs. November/Desember 1990,*

*Co-authors: J D Krige and J H Greyling.*

Facility Management: a Civil Engineering Perspective

*SAICE Eighteenth National Symposium: 'Computing in Civil Engineering', Durban, October 1996*

Bauinformatik at German Universities

*SAICE Nineteenth National Symposium: 'Computing in Civil Engineering', Mafikeng, September 1997*

*Co-author: WW Bird*

Bauinformatik at German Universities

*Civil Engineering, February 1998*

*Co-author: WW Bird*

Introduction of courses in information technology for civil engineers at the University of Stellenbosch

*SAICE IT Division Twentieth National Symposium: Port Elizabeth, September 1998*

*Co-author: WW Bird*

Computer system Year 2000 compliance activities in a town engineering environment

*SAICE National Conference: Durban, April 1999*

MATLAB as a teaching tool for undergraduate civil engineering computing courses

*SAICE IT Division Twentysecond National Symposium: White River Mpumalanga, September*

2000

Civil Engineering Electronic Data Exchange and the XML Standard. *SAICE IT Division Twenty-third National Symposium: Pretoria, September 2001*  
Co-author P van Zyl

Notes on Digital Terrain Modelling in Civil Engineering. *South African Institution of Civil Engineering, Western Cape Branch and Division of Information Technology, Annual Seminar. Bellville, November 2001.*  
Co-author G Janssensl

Practical XML for data processing in project reporting *SAICE IT Division Twenty-fourth National Symposium: Port Elizabeth, September 2002.*  
Co-author A Strasheim

A Review of 25 Years of SAICE IT Division Annual Symposia *SAICE IT Division Twenty-fourth National Symposium: Stellenbosch, September 2003.*  
Co-author A Strasheim

Developmental intervention impact on project environments  
*Proceedings of the Institution of Civil Engineers - Management, Procurement and Law, May 2012*  
Co-author Bob Hindle