

CURRICULUM VITAE

NAME: Christo Johannes Bester

BORN: 1948

NATIONALITY: South African

LANGUAGES: Afrikaans and English

QUALIFICATIONS: B Sc (1972)
B Eng (1972)
M Eng (1974)
D Eng (1982)

**PROFESSIONAL
REGISTRATION:** Professional Engineer 20020059

**PROFESSIONAL
SOCIETIES:** Fellow of the South African Institution of Civil Engineers (SAICE)
Member of the Institution of Highways and Transportation (UK)
Member of the Institute of Transportation Engineers (USA)

EXPERIENCE: **July 1994 - Present**

Professor in Civil Engineering, University of Stellenbosch
Departmental Chair 2004 - 2010
Lecturing in Traffic Engineering, Transportation Planning and Road Safety
Research on Traffic Engineering and Road Safety issues
Consultant to various consulting firms
Attendance of two Road Safety Audit courses
Safety analysis of the N2- Section 5 – between Swellendam and Heidelberg
Study on Traffic Monitoring for the Cape Provincial Administration
Several Traffic Impact Studies for developers
Specialist consultant to the Government of Namibia for the economic evaluation of various sections of the Trans Caprivi Highway, the bridge across the Zambezi River at Katima Mulilo and the road between Oranjemund and Aus.
The economic evaluation of several urban road projects in the Cape Metropolitan Area.
The economic evaluation of the Southern Bypass of Windhoek, Namibia.
The economic evaluation of several sections of National roads for SANRAL – N2 Tsitsikamma, N2 Wild Coast, N17 Ermelo, N4 Nelspruit

November 1988 – June 1994

Associate, Van Niekerk, Kleyn & Edwards in Charge of transportation research in the Cape Town Office
Visiting Associate Professor at the University of Stellenbosch
Research projects for the Department of Transport:

- Bus priority measures
- Traffic circles
- Economic evaluation of urban transport projects
- Minibus taxi facilities
- Traffic assessment
- Migrant traffic
- Road safety during construction
- Benefits of interchanges

- Warrants for passing sight distance
 - Effects of geometry and pavements on road safety
- Several Traffic Impact Studies for developers
 Transportation study for the University of the Western Cape
 Feasibility study for the lighting of freeways
 The development of a revised strategy for traffic monitoring in the Western Cape
 Member of the Panel responsible for the Cape Metropolitan Guidelines for conducting the economic evaluation of urban transport projects.

April 1986 – October 1988

Head of the Western Cape Office of the National Institute for Transport and Road Research (NITRR) of the CSIR

Research projects on:

- Traffic counting
- Economic analysis of road projects
- Road safety
- Road Management
- Traffic Engineering

March 1982 – March 1986

Head of the Rural Transport Group of the NITRR in Pretoria

Research projects on:

- Geometric standards of rural roads
- Rural traffic demand
- Project evaluation and prioritisation
- Development of the ECANET program

Member of the subcommittees on Traffic counting and Geometric standards of the Committee of State Road Authorities

August 1978 – February 1982

Researcher in the Traffic Engineering Group of the NITRR

Responsible for the development of the RODES programs

April 1974 – July 1978

Engineer at Sennett and Wessels Inc, Pretoria

Resident engineer for the construction of roads and bridges

Planning and design of rural and urban roads

COMMITTEE MEMBERSHIP:

Chairman of the Demand modelling Group of the Department of Transport (1984 – 1989)

Member of the Organising Committee of the 1986 Annual Transportation Convention

Member of the Safety Subcommittee of the Western Cape Region of the South African Road Federation (1990 – 2004)

Member of the Committee of the Transportation Engineering Division of SAICE (1992 – present) Currently treasurer

PAPERS AND PUBLICATIONS:

Author or co-author of 70 papers at South African and International conferences or journals, 26 NITRR Research Reports, 14 NITRR Technical notes and 9 RDAC Research Reports.

PAPERS RELATED TO ROAD SAFETY:

1. BESTER, CJ. The effect of road geometry on collisions. Annual Transportation Convention, Pretoria, 1989.

2. BESTER, CJ. Safety aspects of freeway lighting (In Afrikaans). Annual Transportation Convention, Pretoria, 1991.
3. BESTER, CJ. Road safety during construction. Annual Transportation Convention, Pretoria, 1992.
4. BESTER, CJ. Truck speed profiles. Session on vehicle speed. Transportation Research Board Annual Meeting, Washington, D.C., Jan 1994.
5. BESTER, CJ. Accident rates on Natal and Cape roads. Session 2A, Annual Transportation Convention, Pretoria, 1995.
6. BESTER, CJ and G HITGE. The effect of riding quality on road safety. Session 3A, Annual Transportation Convention, Pretoria, 1995.
7. BESTER, CJ and JA MAKUNJE. The effect of road geometry on safety in Southern Africa. Transportation Research Board International Conference on Geometric Design of Highways. Session on safety effects. Boston, August 1995.
8. BESTER, CJ. Heavy vehicle safety. XIII th World Congress of the International Road Federation, Toronto, June 1997.
9. BESTER, CJ. Transportation safety and security in Metropolitan Cape Town. Third African Road Safety Congress. Session on urban safety, Pretoria, April 1997.
10. BESTER CJ and HJ STANDER. South African overview of road safety. ITE Journal, Washington, DC, February 1999.
11. BESTER, CJ and JH du PREEZ. Who is speeding? Session 3B, South African Transport Conference, Pretoria, 1999.
12. BESTER, CJ. Predicting National Road Fatalities. Accident Analysis and Prevention. 33 (2001) p663-672.
13. BESTER CJ. Comparing road fatalities on three continents. Session 5, Road Safety on Three Continents, Pretoria, Sept 2000.
14. MOLLETT CJ and CJ BESTER. An introductory guideline for the use of Bayesian statistical methods in the analysis of road traffic accident data. Session 2B, South African Transport Conference, Pretoria, July 2000.
15. BESTER CJ. Review of 1996 provincial road fatalities. Session 2B, South African Transport Conference, Pretoria, July 2000.
16. MOLLETT CJ and CJ BESTER. Methodological issues in the implementation of accident remedial schemes. Session 2B, South African Transport Conference, Pretoria, July 2000.
17. POOLMAN P and CJ BESTER. Towards a new approach for the design of the alignment of highways and railroads. Proceedings of the Second International Symposium on Highway Geometric Design, Mainz, Germany, June 2000.
18. BESTER, CJ. Explaining national road fatalities. Accident analysis & prevention. 33 (2001), 663-672.
19. POOLMAN P and CJ BESTER. Towards an experimental platform for future driver behaviour research based on integration of engineering and neuro-scientific know-how. Session 234, 82nd Annual Meeting, Transportation Research Board, Washington, D.C., January 2003.
20. BESTER CJ. The effect of road roughness on safety. Session 305. 82nd Annual Meeting, Transportation Research Board, Washington, D.C., January 2003.
21. STANDER HJ and CJ BESTER. Reducing fatalities and injuries on rural and urban roads through operational enhancements. ITE Session, PIARC World Road Congress, Durban, October 2003.
22. VOGEL L and CJ BESTER. A relationship between accident types and causes. Session 1C, South African Transport Conference, Pretoria, 2005.
23. STANDER HJ and CJ BESTER. Road safety in developing countries – A South African perspective. Road Safety on four continents, Warsaw, October 2005.
24. BESTER CJ and F Geldenhuys. Speed trends on major roads in South Africa. Session 2D, South African Transport Conference, Pretoria, 2007, 600-609.

25. VERLINDE KJS and BESTER CJ. Africa on the move, but not too fast. South African Transport Conference, Pretoria, 2011, 224-232
26. BESTER CJ. Capacity building in traffic safety Engineering. SARF Road Safety Conference, Pretoria, 2011.

**TECHNICAL
REPORTS:**

1. BESTER CJ. The effect of various road features on safety. DOT Research Report 93/328, Pretoria, June 1994.
2. BESTER CJ. The effect of rural road construction on the accident rate. DOT Research Report 90/021, Pretoria, March 1991.