



1.2 ACADEMIC QUALIFICATIONS OBTAINED				
Degree/ Diploma	Field of study	Higher education institution	Year	Distinctions
BCom	Econometrics	University of Pretoria	1979	
BCom(Hon)	Econometrics	Rand Afrikaans University	1980	Cum laude
HED	Economics, Mathematics		1982	
MCom	Economics	Rand Afrikaans University	1987	Cum laude
MA	Economics	Western Illinois University	1990	Cum laude
PhD	Economics	Rice University, Houston	1997	
1.3 WORK EXPERIENCE TO DATE				
Name of employer	Capacity and/or type of work		Period	
Voortrekker High School	Teacher of Mathematics		1981	
Rand Afrikaans University	Lecturer of Economics		1985	
University of Pretoria: Department of Economics	Senior Lecturer		1987	
	Associate Professor		1996	
	Professor and Head		1997-2009	
	Professor		2010	

### 3. RESEARCH OUTPUTS

#### 3.1 Publications in peer-reviewed or refereed journals

- VAN HEERDEN, J.H. AND DE WET. G.L., (1993). Group choice and Welfare Optimisation - an Economic Analysis of the Constitutional Negotiation Process in South Africa, 1990-1993, *South African Journal of Economic and Management Sciences*, (11).
- VAN HEERDEN, J.H., (1995). The use of Multi-period Microeconomic models to explain the Overaccumulation of Cattle in Africa, *South African Journal of Economic and Management Sciences*, (15).
- VAN HEERDEN, J.H., (1996). The Distribution of Personal Wealth in South Africa, *South African Journal of Economics*, (vol 64:4).
- VAN HEERDEN, J.H., (1998). Economic Science Today: Obsolete in a Changing World? *South African Journal of Economics*, (vol 66:2, vol 66:3).
- VAN HEERDEN, J.H., AND BLIGNAUT, J.N., (1999). *Die neo-klassieke opvatting van die Ekonomie as wetenskap – 'n kritiese beskouing*. Tydskrif vir Filosofie en Kultuurkritiek, (vol 3).
- VAN HEERDEN, J.H., BLIGNAUT, J.N. AND GROENENDIJK, N.S., (1999). *On the Shady Side of Economics*. *South African Journal of Economic and Management Sciences*, (vol 2:2).

7. GROTE, M., SCHOEMAN, N.J., TRUU, M.L., VAN HEERDEN, J.H., VAN TONDER, J.J., (2000). Aspects of Fiscal Devolution in South Africa. *The South African Journal of Economic and Management Sciences* (vol 3:1).
8. VAN HEERDEN, J.H., SCHOEMAN, N.J., (2000). Generational Accounting: A Comparison between various taxes' incidence on the young and old in South Africa, *Studies in Economics and Econometrics*, (vol 24:2).
9. JACOBS, D.F., SCHOEMAN, N.J., VAN HEERDEN, J.H., (2002). Alternative Definitions of the Budget Deficit and its impact on the Sustainability of Fiscal Policy in South Africa, *The South African Journal of Economics* (vol 70:3).
10. DE WET, T.J., VAN HEERDEN, J.H., (2002). General Equilibrium Analysis of the Effects of a Consumption Tax of CO2 Emissions. Proceedings: First annual conference of the Forum for Economics and Environment, Cape Town, 11 – 12 February 2002.
11. DE WET, T.J., VAN HEERDEN, J.H., (2003). The dividends from a revenue neutral tax on coal in South Africa, *The South African Journal of Economic and Management Sciences* (vol 6:3).
12. VAN HEERDEN, J.H., KEARNEY, M., (2004). Zero-rating Food in South Africa: A Computable General Equilibrium Analysis. *The South African Journal of Economic and Management Sciences* (vol 7:3).
13. MABOTJA, J.K., VAN HEERDEN, J.H., (2005). "A country comparison of best practices in the telecommunications sector", *Journal of Public Administration*, (vol 40: 4.1).
14. VAN HEERDEN, J.H., GERLAGH, R., BLIGNAUT, J.N., HORRIDGE, M., HESS, S. MABUGU, R., and MABUGU, M.R. (2006). Searching for Triple Dividends in South Africa: Fighting CO2 Pollution and Poverty while Promoting Growth. *The Energy Journal* (vol 26:2), pp 113-141.
15. SMITH, H., BLIGNAUT, J.N., and VAN HEERDEN, J.H. (2006). An Analysis of Inventory Investment in South Africa. *South African Journal of Economics* (vol 74:1) pp 6-19.
16. VAN HEERDEN, J.H., BLIGNAUT, J.N. MABUGU, M.R., GERLAGH, R., HESS, S., TOL, R.S.J., HORRIDGE, M., MABUGU, R., DE WIT, M. LETSOALO, T. (2006). Redistribution environmental tax revenue to reduce poverty in South Africa: The cases of energy and water. *South African Journal of Economic and Management Sciences*, (vol 9:4), pp 537-552.
17. LETSOALO, A, BLIGNAUT, J.N., DE WET, T.J., DE WIT, M., HESS, S., TOL, R.S.J., VAN HEERDEN, J.H. (2007). Triple dividends of water consumption charges in South Africa. *Water Resources Research*, (vol 43).
18. VAN HEERDEN, J.H., HORRIDGE, M. AND BLIGNAUT, J.N., (2007). Integrated General Equilibrium Modelling of the Impacts of Water Market Instruments on the South African Economy. *Ecological Economics Special Issue Integrated Hydro-Economic Modelling* (vol 66), pp 105-116.
19. BOHLMANN, H.R., VAN HEERDEN, J.H., (2008). Predicting the Economic Impact of the 2010 FIFA World Cup. *International Journal of Sports Management and Marketing*, (vol 3:4).
20. BLIGNAUT, J.N., and VAN HEERDEN, J.H. (2009). The impact of water scarcity on economic development initiatives. *Water SA* (vol 35:4) pp 415-420.
21. VAN HEERDEN, J.H. (2009). Who would eat more with a food voucher programme in South Africa? *South African Journal of Economic and Management Sciences*, (vol 12:4), pp 537-552.
22. SEYMORE, R., ADAMS, P.D., MABUGU, M., VAN HEERDEN, J.H. and BLIGNAUT, J.N. (2010). The impact of an environmental tax on electricity generation in South Africa. *SEE*, (vol 34:2), pp 1-18.

23. SEYMORE, R., MABUGU, M., and VAN HEERDEN, J.H. (2012). The welfare effects of reversed border tax adjustments as a remedy under unilateral environmental taxation. *Energy and Environment*, (vol 23:8), pp. 1209-1220.
- 24 . SEYMORE, R., VAN HEERDEN, J.H. and MABUGU, M. (2013). The Impact Of A Multilateral Electricity Generation Tax On Competitiveness In Southern Africa: A Computable General Equilibrium Analysis Using GTAP. *Energy and Environment*, (vol 24:6), pp. 917-938.
- 25 . ROOS, L., ADAMS, P.A. and VAN HEERDEN, J.H. (2015). Constructing a CGE Database Using GEMPACK for an African Country. *Computational Economics* (46:4), pp.495-518.
26. KILIMANI, N., VAN HEERDEN, J.H. and BOHLMANN, H.R. (2015). Water resource accounting for Uganda: use and policy relevancy. *Water Policy*, June.
27. KILIMANI, N., VAN HEERDEN, J.H. and BOHLMANN, H.R. (2015). Water Taxation and the Double Dividend Hypothesis. *Water Resources and Economics* (10), pp. 68-91.
28. BOHLMANN, H.R., VAN HEERDEN, J.H., DIXON, P.B. and RIMMER, M.T. (2015). The Impact of the 2014 Platinum Mining Strike in South Africa: An Economy-Wide Analysis. *Economic Modelling* (51), pp. 403-411.
- 29 . STOFBERG, F.J. and VAN HEERDEN, J.H. (2016). The Short Term Economic Impact of Levying E-Tolls on Industries. *South African Journal of Economics*, (84), pp. 574-593.
30. BOHLMANN, J., BOHLMANN, H.R., INGLES-LOTZ, R and VAN HEERDEN, J.H. (2016). An economy-wide evaluation of new power generation in South Africa: the case of Medupi and Kusile. *Energy Policy* (97), pp. 450-460.
31. WEIDEMANN, J., INGLES-LOTZ, R. and VAN HEERDEN, J.H. (2017). Structural breaks in renewable energy in South Africa: A Bai & Perron break test application. *Renewable and Sustainable Energy Reviews*, (78) pp. 945-954.

### 3.2 Books and/or chapters in books

- DE WET, G.L. AND OOSTHUIZEN, A.G. (reds.). (1990). *Eerste Beginsels van die Ekonomie*, J.P. van der Walt and Son, PRETORIA. (Associate).
- VAN HEERDEN, J.H. and BLIGNAUT, J.N., (1998). Microeconomics. In Steyn, F. *Introduction to Economic Theory and Policy in South Africa*. Pretoria: BEPA.
- VAN HEERDEN, J.H., TOL, R.S.J. and GERLAGH, R., (2013). Double dividends of additional water charges in South Africa. In Van Beukering, et.al. *Nature's Wealth: The Economics of Ecosystem Services and Poverty*. Cambridge University Press.

### 3.3 Technical reports

- DE WET, G.L., STEYN, F.G., SCHOEMAN, N.J., BASSON, E.T., HARMSE, C., VAN HEERDEN, J.H. EN ROUSSEAU, B.G., (1988). *The influence of the fuel price on the South African Economy*. 147p. Investigation commissioned by the Manpower Commission.
- STEYN, F.G., DE WET, G.L., SCHOEMAN, N.J., BASSON, E.T., HARMSE, C., VAN HEERDEN, J.H. EN ROUSSEAU, B.G., (1988). *The cost, benefits and financing of skills training in South Africa*. 64p. Investigation commissioned by the Manpower Commission.

DE WET, G.L., STEYN, F.G., SCHOEMAN, N.J., BASSON, E.T., HARMSE, C., VAN HEERDEN, J.H., ROUSSEAU, B.G., AND BENEKE, R., (1989). *Die invloed van verhogings in die prys van oliegebaseerde brandstof op die Suid-Afrikaanse ekonomie*. Bureau for Economic Policy and Analysis (BEPA).

VAN HEERDEN, J.H., BOHLMANN, H.R., GIESECKE, J.A., MAKOCHEKANWA, A., ROOS, E.L., (2007). Higher Education Impact: Universities in the South African Economy. A Report for Higher Education South Africa.

BLIGNAUT, J., BOHLMANN, H.R., INGLES-LOTZ, R., SEYMORE, R., VAN HEERDEN, J.H. (2012) *Macroeconomic and Sectoral Impacts of the Proposed Carbon Tax on Eskom*. Report Prepared for Eskom Research, Test and Development.

BOHLMANN, H.R., VAN HEERDEN, J.H. (2012) *Comparing the Economic Impacts of Different Modelling Scenarios to Cover the Cost of Producing Electricity*. Report Prepared for Eskom Research, Test and Development.

ROOS, L., ADAMS, P.A., AND VAN HEERDEN, J.H., (2012). Construction and Updating of a Ugandan CGE database. CoPS/IMPACT Working Paper Number G-226

## 4. OTHER SCHOLASTIC, RESEARCH BASED CONTRIBUTIONS

### 4.1 Participation in conferences, workshops and short courses - specify type of contribution:

VAN HEERDEN, J.H. and DE WET, G.L., (1993). An Economic Analysis of Constitutional Reform in South Africa – some preliminary results. Paper presented at the 1993 Biennial Meeting of ASASA, Johannesburg.

VAN HEERDEN, J.H. (1994). An Economic Model of Group Behaviour in the Constitution-making process in South Africa. Paper presented at the Fifth Annual Convention of the Congress of Political Economists in Sydney, Australia, 10-14 January.

SCHOEMAN, N.J., VAN HEERDEN, J.H. and DU TOIT, C.B., (1998). The Impact of Fiscal Discipline on Labour Absorption, with specific reference to the South African scenario. Paper presented at the Conference of the International Institute of Public Finance in Cordoba, Argentina

VAN HEERDEN, J.H. and SCHOEMAN, N.J., (1999). Generational Accounting: A Comparison between various Taxes' Incidence on the Young and Old in South Africa. Annual Conference of the Institute of Public Finance, Moscow.

VAN HEERDEN, J.H., BLIGNAUT, J.N., and GROENENDIJK, N.S., (1999). An economic explanation of fraud in South Africa. Economic Society of South Africa Bi-annual Conference, Pretoria.

VAN HEERDEN, J.H., and KEARNEY, M., (2002). A Static, Stylised CGE model applied to evaluate the incidence of Value Added Tax in South Africa. Economic Society of South Africa: Bi-annual conference, Johannesburg.

VAN HEERDEN, J.H., and DE WET, T.H., (2003). The Dividends from a Revenue Neutral Tax on coal in South Africa. Sixth Annual Conference on Global Economic Analysis, GTAP, The Netherlands

VAN HEERDEN, J.H., AND KEARNEY, M., (2004). On Using a CGE model to eliminate water and energy policy in South Africa. Ninth Annual Conference on Econometric Modelling for South Africa, African Econometric Society, Stellenbosch.

VAN HEERDEN, J.H., GERLAGH, R., TOL, R., BLIGNAUT, J.N., HESS, S., MABUGU, R., MABUGU, M.R., DE WIT, M. and LETSOALO, T. (2006). Redistributing Environmental Tax Revenue to Reduce Poverty in South Africa: the

cases of energy and water. Economics of Poverty, Environment and Natural Resource Use, International Conference, 17-19 May 2006, Wageningen, The Netherlands.

BLIGNAUT, J.N., VAN HEERDEN, J.H. and JORDAAN, A., (2008). Who would really pay for increased electricity prices in SA? A CGE analysis of tax incidence. Thirteenth Annual Conference on Econometric Modelling in Africa, African Econometric Society, Pretoria.

BLIGNAUT, J.N., and VAN HEERDEN, J.H., (2008). *Is Water Shedding Next?* TIPS Annual Forum, Cape Town, South Africa.

#### **4.2 Teamwork and collaboration with others:**

- Development of a general equilibrium – overlapping generations model of the South African economy.
- Part of the biannual forecasting team in the Department.
- Member of team researching the level and effects of training in the SA manufacturing sector.
- Member of team researching the labour absorption capacity of South Africa.
- Member of team researching the role of SMME's in the SA economy.
- Senior advisor to Nathan Associates re Mandela Economic Scholarship Program and training of public officials in economics (USAID project).
- Leader of team studying the impact of electricity taxation in South Africa.
- Part of PREM: Poverty Reduction and Environmental Management project with the Vrije Universiteit at Amsterdam – Leading the South African team with CGE modeling of the effects of water and energy taxation in South Africa.
- Leader of team studying the impact of Higher Education in South Africa.
- Member of team to build a CGE model for Uganda (with CoPS, Melbourne).
- Member of team estimating the electricity load profile for South Africa (with Eskom).
- Member of team doing an economic impact study of new oil refineries for South Africa (with KPMG).

#### **4.3 Membership in national and international bodies**

List all the scientific associations or societies to which you belong. Specify your involvement.

- President African Econometric Society (earlier)
- Vice President: The Economic Society of South Africa (earlier)
- Consulting editor: South African Journal of Economics; South African Journal of Economic and Management Sciences; Development Southern Africa
- Reviewer for National Research Foundation
- Representative on Steering Committee for Water Research Commission project on valuing water for South African industries: a production function approach
- Member of the South African Academy for Science and Art
- Deputy Director of Economic Research Southern Africa (ERSA).
- Director of Economic Research Southern Africa (ERSA).
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#### **4.4 Visits to universities or research institutes as researcher**

- CGE Modelling at Monash University, Melbourne, Australia, 2002, 2003, 2004, 2006, 2008, 2009, 2010 and 2013 (2).
- Vrije University, Amsterdam: Poverty reduction and the environment programme: Part of an Environmental Fiscal reform initiative.

#### 4.5 Doctoral students supervised

Sansia Mimie Brink, *The Economics of Exchange Rates: a South African Model*, 1998.

Reneé Koekemoer, *Private consumption expenditure in South Africa: the role of price expectations and learning*, 1999.

Charlotte Barbara du Toit, *A supply-side model of the South African economy: critical policy implications*, April 2000.

Victor Sesinyi Khabo, *An Evaluation of the Impact of Monetary Policy in Stimulating Economic Growth of a small and open economy: The case of the Republic of South Africa, 1960-1997*, 2002.

Theuns Jacobus de Wet, *A General Equilibrium Analysis of the effect of Revenue Neutral Tax on coal in the South African economy*, 2003.

Marna Kearney, *Restructuring VAT in South Africa: a Computable General Equilibrium Analysis*, 2003.

Herman Smith, *'n Ontleding van voorraadinvestering in Suid-Afrika*, 2004.

Reyno Seymore, *The Competitive Effects of Electricity Generation Taxes: a CGE analysis*, 2011.

Nono Nkambule, *Measuring the social costs of coal-based electricity generation in South Africa*, 2015.

Nick Kilimani, *Essays on water resources and the Ugandan economy*, In Progress.

Francois Stofberg,

#### 4.6 Masters students supervised

J.M. Bence, *Opemarktransaksies teenoor die bankkoers as die hoofinstrument van monetêre beleid*, 1997. (Co-supervisor).

R. Ehlers, *Die verwantskap tussen Suid-Afrikaanse monetêre groothede, rentekoerse en inflasie*, 1997.

M.B. Fugah, *The role of industrialization and export expansion in economic growth and development*, 1997.

F. Stofberg, *The Short Term Economic impact of an Increase in Industry Transport Costs: an E-Toll Study*, 2015.