

Curriculum Vitae: Andre Karl Theron

Personal Data:

Profession: Coastal Engineer
 Date of birth: 3 April 1959
 Nationality: South African
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 Dept. Civil Engineering, Stellenbosch University, South Africa.

Key Professional Qualifications & Education:

Date	Final Qualification/certificates	Subject	University
2004	Masters degree in water engineering	Port & Coastal engineering	University of Stellenbosch
1981	Bachelors degree in engineering	Civil engineering	University of Stellenbosch

Key Experience:

- *Specialist (25 years experience) on: port & coastal engineering, nearshore hydrodynamics, sediment transport, coastal erosion, planning and design of port & coastal developments, coastal protection, estuarine hydro- and sediment-dynamics, and coastal physical environmental studies/impacts.*
- *Expertise (6 years experience) on: planning and design of irrigation schemes, operation of water supply schemes and purification plants, construction of rural water supply schemes and purification plant, planning of water resource developments.*

Employment Record and Professional Background:

Period	Country	Employer	Position	Project Aspects Addressed or Studied
2015-date	SA	Stellenbosch University	Lecturer	<ul style="list-style-type: none"> · Lecturer in port, coastal and water engineering
1990-2015	SA	CSIR	Port, Coastal & Estuarine Senior Research Engineer, Project Manager.	<ul style="list-style-type: none"> · Sediment dynamics and transport · Port and coastal engineering: planning, design, assessment · Nearshore hydrodynamics · Beach morphology, coastal erosion · Coastal protection measures · Wave runup, coastal flooding levels · Geophysical coastal hazards and risk assessment · Determination of coastal development setback lines: method development and application · Port dredge optimisation, sand trap design, sand bypassing, beach nourishment · Effects of breakwaters and structures on shorelines · Assessment of intakes and outfalls, beach pipe crossings · Estuarine hydro- and sediment-dynamics · Aeolian sediment transport, dune dynamics · Quantification of coastal sediment budgets · Climate change impacts & adaptations for ports & coasts · Planning & design aspects of port & coastal developments · Marine/coastal environmental engineering and physical environmental specialist studies/impacts

1984-1989	SA	DWAF	Civil engineer, Department of Water Affairs	Planning and design of irrigation schemes as well as general engineering services. Operations engineer in charge of Berg River-Saldanha, Swartland and Voëlvlei schemes. Assistant site engineer for construction of Rûensveld West water supply scheme, purification plant and housing scheme. Long-term planning of water resource developments (urban, industrial & agricultural).
1982-1984	SA	S A Navy	Structural Engineer, programmer	Mainly the design and compilation of computer programmes for the design of concrete and wooden structures.

Language Skills:

Language	Spoken	Written	Reading/Comprehension
Afrikaans (<i>native language</i>)	1	1	1
English	1	1	1

1=very good, negotiating level; 2=good; 3=satisfactory; 4=adequate, simple communication, basic knowledge; 5=no skills

Publications:

1) Peer-reviewed journal articles, book chapters, conference publications

- Barwell L, Theron A K and Rossouw M. (2014). Responding to Coastal Climate Change in Mozambique, a Low Data Availability Context. Paper presentation at 2014 PIANC World Congress, San Francisco, USA, June 1 -5, 2014. pp 19
- Goschen W, Mather AA, Theron AK. (2012). Insights into impacts of climate change on the South African marine and coastal environment - Ch.11: Coastal Infrastructure. (**Book chapter**) In James N, Hermes J (eds). Insights into impacts of climate change on the South African marine and coastal environment. Pretoria: South African Environmental Observation Network (SAEON).
- Hardwick D and Theron A.K. (2009). Modelling of sediment yields for KZN catchments and sediment budget. Poster presentation at 7th International Geomorphology Conference. Melbourne, Australia.
- Luger, S, A, Schoonees, J S and Theron, A K. (2002). Optimising the disposal of dredge spoil using numerical modelling. *Proceedings 28 Intern. Conf. on Coastal Eng., ASCE, Cardiff*. Vol 3: 3155-3167.
- Nahman, A., De Lange, W.J., Theron, A K and Hardwick, D. (2009) External costs of sand mining in rivers: Evidence from South Africa. Paper presented at the 2nd Environmental Resource Economics conference, Cape Town, South Africa.
- Nel JL, Le Maitre DC, Nel DC, Reyers B, Archibald S, van Wilgen BW, Forsyth GG, Theron AK, et al. (2014) Natural Hazards in a Changing World: A Case for Ecosystem-Based Management. *PLoS ONE* 9(5): e95942. doi:10.1371/journal.pone.0095942
- Rossouw M and Theron A K. (2012). Investigation of Potential Climate Change Impacts on Ports and Maritime Operations around the Southern African Coast. (**Book chapter**) In "Maritime Transport and the Climate Change Challenge", Edited by Regina Asariotis and Hassiba Benamara. April 2012, United Nations Conference on Trade and Development (UNCTAD), Earthscan, Routledge. 360 pp, ISBN 978-1-84971-238-5
- Rossouw M and Theron A.K. (2013). Impact of climate change – A brief Southern African perspective. Presentation at German/SA Seminar on The influence of Climate Change on Extreme Loads on Infrastructure. University of Stellenbosch, 13 February 2013.
- Schoonees, J S and Theron, A K (1993). Review of the field-data base for longshore sediment transport. *Coastal Eng. Journal*, Vol. 19: 1-25.
- Schoonees, J S and Theron, A K (1994). Accuracy and applicability of the SPM longshore transport formula. *Proceedings 24th International Conference on Coastal Engineering, ASCE, Kobe, Japan*. Vol. 3: 2595-2609.
- Schoonees, J S and Theron, A K (1995). Evaluation of 10 cross-shore sediment transport/ morphological models. *Coastal Eng. Journal*, Vol. 25: 1-41.
- Schoonees, J S and Theron, A K (1996). Improvement of the most accurate longshore transport formula. *Proceedings 25th Intern. Conf. On Coastal Eng., Orlando, Florida*. ASCE, Volume 3, Chapter 282, page 3652-3665.
- Schoonees, J S and Theron, A K (2002). Development of an accurate longshore sediment transport model. *Journal SA Institute of Civil Eng.* 44 (3): 12-17
- Schoonees, J S Theron A K and Coppoolse R C (1999). Temporary groynes for measuring longshore transport in False Bay. *Proceedings, International Conference on Coastal Sediments '99, ASCE, Long Island, New York*. Vol. 2: 971 – 986.
- Schoonees, J S, Theron, A K and Bevis, D. (2006). Shoreline Accretion and Sand Transport at Groynes Inside the Port of Richards Bay. *Coastal Engineering Journal* (Elsevier) 53 (2006) 1045–1058.
- Smith A, Mather AA, Bundy SC, Cooper JAG, Guastella LA, Ramsay PJ and Theron AK. (2010). Contrasting styles of swell-driven coastal erosion: examples from KwaZulu-Natal, South Africa. *Geol. Mag. (journal)*: Cambridge University Press 2010 1; doi:10.1017/S0016756810000361.

- Taljaard S, van Niekerk L, Theron AK, Morant PD, Peterson Y and Albertus-Stanley F. (2008). South Africa's National Programme of Action to Protect the Coastal and Marine Environment from Land-based Activities. Conference Presentation: SEACChange theme: Ecosystems and change. Southern African Marine Science Symposium (SAMSS 13), Cape Town, South Africa
- Taljaard S, Slinger JH, Morant PD, Theron AK, Van Niekerk L, Van der Merwe J. (2012). Implementing Integrated Coastal Management in a Sector-Based Governance System. **(Journal)** Ocean & Coastal Management 67 (2012) 39-53. Elsevier. <http://dx.doi.org/10.1016/j.ocecoaman.2012.06.003>
- Theron, A K (1994). Sea level rise, impacts and the use of Bruun's erosion rule. **Journal** SA Inst Civ Eng, Vol 36, No 3, Fourth Quarter 1994: 6-10.
- Theron, A K., Coppoolse, R.C. and Schoonees, J.S. (1994) Low-cost coastal protection measures using textiles. *Proceedings* 28th International Navigation Congress (PIANC), Seville, Spain. Section II - Subject 4, pp109-118.
- Theron, A K and Schoonees, J S (1998). Defining an unusual littoral regime to optimise dredging at East London. *Proceedings*, 26 th International Conference on Coastal Engineering, ASCE, Copenhagen, Denmark Vol 3: 3479-3489.
- Theron, A K, Schoonees, J S, Burggraaf, A and Raw, A J (1998). Harbour sedimentation and dredging optimisation at some Southern African ports. 29 *PIANC*, Netherlands, Section II, Subject 5: 47-55.
- Theron, A K and Schoonees, J S (1999). Sand Transport Through and Around the Main Breakwater at East London. *Proceedings*, Fourth International Symposium on Coastal Engineering and Science of Coastal Sediment Processes, Coastal Sediments '99, New York, ASCE. Volume 3: 2371 – 2384.
- Theron, A K, Schoonees, J S and Manini, D (1999). Successful prototype testing of low-cost dike/beachwall protection. *Proceedings*, International Conference on Coastal Structures '99, ASCE, Santander, Spain. Vol. 2: 1027 – 1035.
- Theron, A K and Schoonees J S (2001). Physical Impacts of and Mitigation Measures for Dredging. SA Institution of Civil Engineers, Annual Congress, 2001, George.
- Theron, A K, Diedericks, G P J, Huizinga, P, Basson, G R and Kemp, A (2002). Measurement and modelling of sediment dynamics in estuaries. In: ENVIRO FLOWS 2002. *Proceedings* of the International Conference on Environmental Flows for River Systems, incorporating the 4th International Ecohydraulics Symposium. Cape Town, South Africa. March 2002. Estuaries and Near-Coast Ocean Ecosystems: 40-55
- Theron, A K, Schoonees, J S and Claassens, H (2002). Port of East London: design and optimisation of the sand traps. **Journal** SA Inst Civ Eng, Vol 44(4): 8-15.
- Theron, A K, Schoonees, J S, Huizinga, P and Phelp, D T (2003). Beach Diamond Mining Design at the Rocky Namaqualand Coast. *Proceedings*, 4th Coastal Structures Conference, ASCE, Portland, Oregon, 2003.
- Theron, A K and Bergman, S (2007). Relationships between estuarine and coastal parameters to predict/assess closed mouth state in SA estuaries. Oral Presentation & Book of Abstracts; Fifth WIOMSA Scientific Symposium, Durban, South Africa; p 115.
- Theron A K (2007). Analysis of Potential Coastal Zone Climate Change Impacts and Possible Response Options in the Southern African Region. *Proceedings*, IPCC TGICA Conference: Integrating Analysis of Regional Climate Change and Response Options; Nadi, Fiji, p 269-284
- Theron A K and Schoonees J S (2007). Sand Transport at and Shoreline Response to a Breakwater Attached to a Large Tidal Pool at Monwabisi, Cape Town. **Journal** of the South African Institution of Civil Engineering, June 2007 Vol 49 No 2: 2-9.
- Theron, A K, and Rosseau, M., (2008). Analysis of Potential Coastal Zone Climate Change Impacts and Possible Response Options in the Southern African Region. 2nd CSIR Biennial Conference November 2008: researchspace.csir.co.za/dspace/bitstream/10204/25611/1/Theron_2008.pdf
- Theron A K and Rossouw M (2009). Aspects of Potential Climate Change Impacts on Ports & Maritime Operations around the Southern African Coast. *Proceedings* - UNCTAD Intergovernmental Expert Meeting on "Maritime Transport and the Climate Change Challenge"; First Expert Meeting on climate change and maritime transport issues. Geneva, Switzerland.
- Theron, A K, Diedericks G, Maherry A and Rossouw M (2010). Potential impacts of climate change on the coastal zone: How far from the sea should we be? (**Book chapter**) In SA Risk & Vulnerability Atlas, DST (& CSIR) Pretoria. ISBN 978-0-620-45659-3
- Theron, A K., Rossouw, M, Barwell, L, Maherry, A, Diedericks, G, de Wet, P. (2010). Quantification of risks to coastal areas and development: wave run-up and erosion. *Proceedings* CSIR 3rd Biennial Conference 2010. Science Real and Relevant, CSIR International Convention Centre, Pretoria 30 August – 01 September 2010, South Africa, pp 16
- Theron A K, Rossouw M, Barwell L, Mahery A. (2011). "Adaptation Measures & Coastal Protection Options in Response to Climate Change Impacts in the Coastal Zone of the Southern WIO Region." Conference on Climate Change Impacts, Adaptation and Mitigation in the WIO region: Solutions to the Crisis; Grand Baie, Mauritius. 21-23 March 2011.
- Theron A K. (2011). "Shoreline science' & management aspects; coastal erosion setback lines." Presentation at Dynamic Shorelines in a Changing Climate: WIO Perspectives and Updates, 21-23 November 2011, Maputo, Mozambique.
- Theron A K and Barwell L. (2011). "Aspects of shoreline management: Coastal hazard science & evaluation; Coastal development setback lines; Coastal Climate Change Impacts & Adaptation Measures." Dynamic Shorelines in a Changing Climate: WIO Perspectives and Updates, 21-23 November 2011, Maputo, Mozambique.
- Theron, A K. (2011). "Aspects of Coastal Hazards and Vulnerability in South Africa." DEA National Storm Surge Workshop – Knysna. 22-23 February 2011.
- Theron, A K. (2011). "Climate change, sea level rise and the southern African coastal zone: a general revue of causes, consequences and possible responses." (**Book chapter**) In: Observations on Environmental Change in South Africa (editor Larry Zietsman). DST & SAEON, Sun Press. ISBN 978-1-920338-24-4.
- Theron A K, Barwell LB, Rossouw M, Maherry A and Rautenbach C (2014). Understanding, quantifying and responding to coastal vulnerability. Poster presented at the World Research and Innovation Congress - Oceans, 15-16 October 2014, Lisbon, Portugal.

- Van Ballegooyen RC, Taljaard S, van Niekerk L, Lamberth S, Weerts S and Theron AK. (2007). The role of freshwater flows and associated fluxes in coastal and shelf marine ecosystems: A proposed assessment framework. Oral Presentation & Book of Abstracts; Fifth WIOMSA Scientific Symposium, Durban, South Africa.
- Van Niekerk, L, Huizinga, P and Theron, A K (2002) Semi Closed Mouth States in Estuaries Along The South African Coastline. In: ENVIRO FLOWS. 2002. *Proceedings of the International Conference on Environmental Flows for River Systems, incorporating the 4th International Ecohydraulics Symposium. Proceedings.* Cape Town, March 2002. Estuaries and Near-Coast Ocean Ecosystems: 1-12.
- Whitfield AK, JB Adams, GC Bate, K Bezuidenhout, TG Bornman, PD Cowley, PW Froneman, PT Gama, NC James, B Mackenzie, T Riddin, GC Snow, NA Strydom, S Taljaard, AI Terörde, AK Theron, JK Turpie, L van Niekerk, PD Vorwerk and TH Wooldridge (2008). A multidisciplinary study of a small, temporarily open/closed South African estuary, with particular emphasis on the influence of mouth state on the ecology of the system. *African Journal of Marine Science* 2008, 30(3): 453–473. doi: 10.2989/AJMS.2008.30.3.2.636
- Whitfield AK, GC Bate, JB Adams, PD Cowley, PW Froneman, PT Gama, NA Strydom, S Taljaard, AK Theron, JK Turpie, L Van Niekerk and TH Wooldridge. (2012). A review of the ecology and management of temporarily open/closed estuaries in South Africa, with particular emphasis on river flow and mouth state as primary drivers of these systems. *African Journal of Marine Science* 2012, 34(2). NISC (Pty) Ltd and Taylor & Francis, South Africa. ISSN 1814-232X EISSN 1814-2338, <http://dx.doi.org/10.2989/1814232X.2012.675041>

2) Examples of research project outputs

- Audouin M A, Taljaard S, Dunkley E C, Lochner P A, Le Maitre D C, Theron A K, Schoonees J S, Rabie A and Van Zyl H (2001). First edition: City of Cape Town: State of the coast: Coastal zone strategy development - Phase 1. CSIR Report No ENV-S-C 2001-071, Environmentek, Stellenbosch, South Africa.
- Barwell L, Rossouw M, Theron AK, Bilse D and Ruthenavelu M. (2014). Adapting to Climate Change Impacts on South Africa's Ports, Phase 1: Hazard Assessment of Potential Drivers and Impacts. CSIR Report: CSIR/BE/HIE/ER/2014/0049/B, CSIR, Stellenbosch.
- Barwell L, Theron AK and Luck-Vogel M. (2014). Updated management plan for the Lappiesbaai beach and adjacent area at Stilbaai. For Hessequa Municipality. CSIR Report: CSIR/NRE/ECOS/ER/2014/0003/B, CSIR, Stellenbosch.
- Beck J S, Kemp A, Theron A K, Huizinga P and Basson G R (2004). Hydraulics of Estuarine Sediment Dynamics in South Africa: Implications for Estuarine Reserve Determination and the Development of Management Guidelines. WRC Report No. 1257/1/04. Pretoria, South Africa.
- Diedericks, GPJ, Rossouw M, Theron, AK and De Wet, P, (2011). Reconfiguration of the East London Sand-Trap to Facilitate Trail Dredging, CSIR Report CSIR/NRE/
- Diedericks, GPJ, Theron, AK and De Wet, P, (2011). Groyne designs along the Richards Bay harbour entrance channel, CSIR Report CSIR/NRE/CO/ER/0095/B
- Gründlingh M, A.K. Theron, L.J. Watt, U. v. St. Ange (2009). Durban Beach Monitoring Progress Report: July 2007 to June 2008, Volume 2. CSIR report CSIR/NRE/CO/ER/2009/0105/C/Vol2. Stellenbosch
- Jayiya T P, van Wilgen B W, Forsyth G G, Theron A K, Netswera G, Maree G, Weerts S and Taljaard S (2005). An Assessment of the Status of the Umzimvubu Estuary and Recommendations for its Management. CSIR Report ENV-S-C 2005-090. Environmentek, Stellenbosch, South Africa. pp 50
- Lück-Vogel, M., Maherry, A., Theron, A.K., Malan, N., Van Niekerk, L., and Barwell, L. (2014). Report: Workshop on LiDAR for Coastal Environments, DEA & CSIR, March 2014, Stellenbosch. CSIR Report No. CSIR/NRE/ECOS/ER/2014/0047/A
- Midgley, G.F., Chapman, R.A., Hewitson, B., Johnston, P., de Wit, M., Ziervogel, G., Mukheibir, P., van Niekerk, L., Tadross, M., van Wilgen, B.W., Kgope, B., Morant, P.D., Theron, A.K., Scholes, R.J., Forsyth, G.G. (2005) A Status Quo, Vulnerability and Adaptation Assessment of the Physical and Socio-economic Effects of Climate Change in the Western Cape. Report to the Western Cape Government, Cape Town, South Africa. CSIR Report No. ENV-S-C 2005-073, Stellenbosch.
- Mocke, G P, Luger, S, Schoonees, J S, Smit, F, Theron, A K (1996). Effects of proposed dredging activities on turbidity levels and shoreline stability in Saldanha Bay. Specialist Study Report S3. In: Environmental Impact Assessment of proposed changes to oil transfer operations, Saldanha Bay. Volume 2. Specialist Studies Report. CSIR Report No EMAS-C 96005D, Stellenbosch.
- Moes, J. and Theron, A.K. (1995) Caltex offshore pipeline: preliminary stability assessment of the proposed Caltex pipeline off Table View. CSIR report: EMAS-C 95089. EMATEK, Stellenbosch, South Africa. 41pp
- Nel J, Archibald S, Le Maitre D, Forsyth G, Theron A K and Van Niekerk L. (2011). Understanding the implications of global change for the insurance industry: The Eden Case Study. CSIR Report: CSIR/NRE/ECOS/2011/0063/B. CSIR Natural Resources and the Environment, Stellenbosch, South Africa. ("Greater Mossel Bay Geo-physical Coastal Risk" study by Theron A K.)
- Phelp, D. and Theron, A.K. (1992) Photographic, hydrographic and topographic monitoring of the Saldanha Spending beach breakwater, May 1992. CSIR report EMAS-C 93020. Ematek, Stellenbosch, South Africa.
- Rautenbach C, Rossouw M, Theron AK, Page P, Harribhai J, Maherry A and Von Saint Ange U. (2014). South African Coastal Vulnerability Assessment, DEA – CSIR, Phase 2: MetOcean Conditions & Vulnerability - Medium resolution wave climate & run-up, Version 1. CSIR Report: CSIR/NRE/COAST/ECCS112. CSIR, Stellenbosch, South Africa.
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- Schoonees J S, Theron A K, Phelp D and Vonk R (2000). Saldanha Bay: beach profile monitoring July 1995 - September 2000. CSIR Report ENV-S-C 2000-031, Stellenbosch.
- Schoonees, J S and Theron, A K (2001). Port Shepstone Marina: Sedimentation and Floods. CSIR Report ENV-S-C 2001-018. Environmentek, Stellenbosch, South Africa.

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- Theron A K and Schoonees, J.S. (1991) Innovative coastal protection methods. CSIR STEP report: EMAS-I 92003, Ematek, Stellenbosch, South Africa. Pp 59
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- Theron A K, De Wet P D, Watt L J, and Von. St. Ange U (2010). Durban Beach Monitoring Progress Report: July 2007 to June 2008, Volume I: Main Report. CSIR report CSIR/NRE/ CO/ER/2009/0105/C Vol1. Stellenbosch.
- Theron A K, Rossouw, M., Rautenbach, C., Von Saint Ange, U., Maherry, A., and August, M. (2014). Determination of inshore wave climate along the South African coast – Phase 1 for coastal hazard and vulnerability assessment. CSIR Report CSIR/NRE/ECOS/ER/2014/0037/A, Stellenbosch, South Africa. pp162
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[A complete list of contract reports is available on request.]

3) Examples of international project work experience - outputs

- Schoonees J S, Theron A K, Hughes S, Davids G and Schonegevel L (2004). Influence of sediment dynamics on the development of the Mussulo Peninsula near Luanda, Angola. CSIR Report ENV-S-C 2004-051, Stellenbosch, South Africa.
- Theron AK (2009). Specialist Study Report on Coastal Physical Characteristics - EIA for Environmental Impact Assessment for the Proposed Desalination Project at Mile 6 near Swakopmund, Namibia, EIA Report, CSIR Report No. CSIR/CAS/EMS/ER/2009/0015/A, Stellenbosch.
- Theron AK, Barwell LB, Rossouw M, Maherry A, (2012). Coastal Planning and Adaptation to Mitigate Climate Change Impacts - Responding to Climate Change in Mozambique (Phase II, Theme 2). Report prepared for National Institute for Disaster Management (INGC) by CSIR, CSIR Stellenbosch, South Africa. pp 266.
- Theron AK, Diedericks G, Wilms J and Bergman S. (2012). Specialist Study: Coastal Marine and Terrestrial Sediment Dynamics; Environmental Impact Assessment Report, Sandpiper Marine Phosphate Project, Walvis Bay, Namibia. CSIR Report ENV-S-C 2012-AT1, CSIR, Stellenbosch, South Africa. pp 115.
- Theron AK, Brinkmann B, Koppe B, Werth K and Phelp D. (2013). Technical adaptation options to progressive coastal development (focussing on the development of sustainable as well as environmental-friendly, adaptive and cost-effective technical protection measures for sandy shorelines) NRF Project Report PTA GEN#224081. Funded by the German Ministry for Education and Research (BMBF) and the National Research Foundation (NRF) South Africa. A joint 3 year research programme between: Leuphana University Lüneburg; CSIR, NAUE GmbH & Co. KG. / Bauberatung Geokunststoffe GmbH & Co. KG, University of Stellenbosch.
- Van Niekerk L, Taljaard S, Theron AK and Huizinga P. (2013). Technical Report - Estuary Abiotic Assessment, Research Project on Environmental Flow Requirements of the Fish River and the Orange-Senqu River Mouth. UNDP-GEF, Orange-Senqu Strategic Action Programme. Orange-Senqu River Commission Secretariat, Governments of Botswana, Lesotho, Namibia and South Africa.
- Van Ballegooyen RC, Theron AK, Newman B, Lück-Vogel M and Taljaard S. (2012). Terminal de Carvão da Matola Phase 4 Expansion Project, Mozambique: Integrated Marine Environmental Impact Assessment Specialist Study. CSIR Report CSIR/NRE/ECOS/ER/2012/0081, CSIR Stellenbosch, South Africa. 171pp + 41 pp App.

4) University lecturing & related

- University of Cape Town. 2006. Disaster Risk Science - presented MPhil course module, mentoring & practical task on geophysical coastal hazards & risk assessment.
- University of Cape Town. 2007. Disaster Risk Science - presented MPhil course module, mentoring & practical task on geophysical coastal hazards & risk assessment.
- University of Cape Town. 2009. Disaster Risk Science - presented MPhil course module, mentoring & practical task on geophysical coastal hazards & risk assessment.
- University of Cape Town. 2010. Disaster Risk Science - presented MPhil course module, mentoring & practical task on geophysical coastal hazards & risk assessment.
- Stellenbosch University. February 2010. Theron, AK. (2010a). "Coastal development setback lines." Coastal Engineering short course, University of Stellenbosch, 22 -26 February 2010. Eng Council of SA Continuing Professional Development (CPD) accredited course.
- Stellenbosch University. June 2009. Theron, AK and Van Niekerk L. (2009). Estuarine Mouth Hydro- & Sediment Dynamics and Coastal Processes: Keurbooms Estuary. In: "River Hydraulics, Stormwater & Flood Management Short Course", 9 to 12 June 2009. Department of Civil Engineering, University of Stellenbosch. Eng Council of SA Continuing Professional Development (CPD) accredited course.
- Stellenbosch University. October 2010. Theron, A.K. (2010b). "Approaches to determination of erosion setbacks in South Africa." Setback Lines For Coastal Developments - Interactive Seminar & Workshop, University of Stellenbosch, 21 & 22 October 2010. Eng Council of SA Continuing Professional Development (CPD) accredited course.
- Stellenbosch University. June 2011. Theron, AK. (2011). Cumulative Impacts of Anthropogenic Activities In Rivers and Estuaries On Coastal Sediment Supply in KZN. Three Day Course on Stormwater, River Hydraulics and Management, 1 to 3 June 2011, Department of Civil Engineering, University of Stellenbosch, Stellenbosch, SOUTH AFRICA. ECSA Continuing Professional Development (CPD) accredited course.
- Stellenbosch University. October 2011. Theron, A.K, Barwell, L.B., Rossouw, M. and Maherry, A. (2011). Coastal Hazards, Setbacks and Coastal Protection Options in Response to Climate Change Impacts in Mozambique. In "Setbacks 2 - Coastal Setback Lines - 2011" - Interactive Seminar & Workshop, Department of Civil Engineering, University of Stellenbosch, 6 & 7 October 2011. Eng Council of SA Continuing Professional Development (CPD) accredited course.
- Stellenbosch University. 2012-2015. Mentoring of M.Eng students (e.g. "Dune vulnerability assessment tool", "Sea-level Rise", "Shoreline Modelling", "Extreme Sea Levels", etc.)
- Stellenbosch University. May 2012. Theron A.K. (2012). Aspects of Coastal Hazards & Evaluation, Setback Lines and Response & Coastal Adaptation Measures. Disaster Risk Science course module presentations. Department of Geography and Environmental Studies, University of Stellenbosch. (Prof A Holloway)
- Stellenbosch University. June 2013. Theron, AK. (2013). Catchment to Coast "Sediment Dynamics" Links: Two Case Studies. Three Day Course on Stormwater, River and Estuary Hydrodynamics, 18 – 20 June 2013. , Department of Civil Engineering, University of Stellenbosch, Stellenbosch, SOUTH AFRICA. ECSA Continuing Professional Development (CPD) accredited course.

- Stellenbosch University. June 2013. Theron A.K. (2013). Geophysical Coastal Hazards, Vulnerability, Risk and Response. Presented course module - seminars for Disaster Mitigation for Sustainable Livelihoods Programme (DiMP), Department of Geography and Environmental Studies, University of Stellenbosch. (Prof A Holloway)
- Stellenbosch University. May 2014. Theron A.K. (2014). Planning for & Assessing Abiotic Coastal/Marine Hazards; Response Options. Risk Science Lectures for Disaster Mitigation for Sustainable Livelihoods Programme (DiMP), Department of Geography and Environmental Studies, University of Stellenbosch. (Prof A Holloway)

Other professional activities:

2014 – June 2015: participated in international research projects: ongoing bi-lateral Marie Curie Delft (Netherlands) / CSIR (SA) research project; 3-year ongoing bi-lateral US ERDC (CERC) / CSIR (SA) research project.
Review of papers for African Journal of Marine Science, Journal of Hydraulic Research (American Society of Civil Engineers), as well as review of research proposals for the WRC & NRF.

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience.

A K Theron

Date: 24/07/2015