

ABRIDGED CURRICULUM VITAE

PETER DAY (Dr)



Date of Birth:	1953
Nationality:	South African
Education / Qualifications:	BSc Eng (Civil) <i>Cum Laude</i> (University of Natal, 1975); MSc Eng (University of Natal, 1980); DEng (University of Stellenbosch, 2013).
Employers:	
1976	Department of Water Affairs – Natal
1977 – 1978	University of Natal – Researcher, Junior Lecturer
1979 – Present	Jones & Wagener Consulting Engineers, Consultant. Retired Chairman of the Board.
Jan 2014 – Present	Adjunct Professor of Geotechnical Engineering, University of Stellenbosch.
Awards:	
2018	South African Professional Services Academy - Lifetime Achievement Award.
2017	ISSMGE Terzaghi Orator.
2017	Gold Medal from SA Institute for Engineering and Environmental Geologists
2014	Engineer-of-the-Year 2014, SA Institution of Civil Engineering
2010	Honorary Fellow of the SA Institution of Civil Engineering.
2005	South African Geotechnical Medal.
2002	Fellow of the SA Institution of Civil Engineering.
1991	J.E. Jennings Award (SAICE Geotechnical Division) for contribution to the 1989 Code of Practice on Lateral Support in Surface Excavations.
1981	SAICE prize for Best Short Paper or Technical Note published in the Transactions during 1980.
1981	SAICE prize for Best Graduate Contribution published in the Transactions during 1980.
Professional Affiliations:	
SAICE	Member (1982), Fellow (2002), Honorary Fellow (2010)
ECSA (Engineering Council of South Africa)	Professional Engineer (1982). Registration no. 820215 Member on Investigating Committee (2006-). Code of Practice Steering Committee (2009-). Identification of Engineering Work Overlaps Committee (2012-)

ISSMGE	Vice-President for Africa (2001-2005). Chairman of Technical Committee TC23 on Limit State Design (1997-2001). Member of Technical Committees on Professional Practice, Limit States Design, Underground Excavations; Forensic Geotechnical Engineering, Safety and Serviceability on Geotechnical Design. Chair elect – ISSMGE Corporate Associates Presidential Group (2017).
Geotechnical Division	Secretary (1988-1992). Chairman (1993-1994). Treasurer (1995-2003).
South African Bureau of Standards (SABS)	Chair, Subcommittee TC59 SC03: Geotech Construction Codes (2009-). Chair, Technical Committee TC98, Structural & Geotechnical Design Standards (2012-).
SAICE & Geotechnical Division	Chair, Subcommittee TC98 SC06: Geotech Design Codes (2012-2016) Member of Editorial Advisory Board since 2003. Chairman of organising committee: <ul style="list-style-type: none"> • Pile Design and Construction Practice (1988) • XII ISSMGE African Regional Conference (1999) • Seminar on Limit State Design in Geotech Engineering (1995) • S.A. National Conference on Loading (1998). • Dolomite Seminar (2013)

Areas of Expertise:

Geotechnical investigation; lateral support and slope stability; construction on problem soils; design of foundations; insurance and contract dispute investigations; expert legal opinion; drafting codes of practice.

Publications

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|---|------|--|
| DAY P.W. (Lead
discusser)
BOGUSZ W, DE
KOKER N, LOW BK,
PHOON K-K,
SIMPSON B | 2017 | Chapter 3 – Practical geotechnical design using reliability-based design methods, in TC205 / TC304 Working Group on “Discussion of statistical / reliability methods for Eurocodes”. Final Report, September 2017. ISSMGE. |
| DAY P.W. | 2017 | Challenges and shortcomings in geotechnical engineering in the context of a developing country. Terzaghi Oration. Proc. 19 ICSMGE, Seoul. |
| MUZOFAT,
VAN ZYL G
DAY P.W. | 2017 | Computational modelling of soil-structure interaction towards reduced concrete foundation volume for tall wind turbine towers. Proc. FIB Conference, Maastricht. the Netherlands |
| DE KOKER N
DAY PW | 2017 | Assessment of reliability-based design for a spectrum of geotechnical design problems. Proc. ICE Geotechnical Engineering – in press. doi:10.1680/jgeen.17.00047 |
| ZWIERS AS
DAY PW | 2017 | Reliability assessment of limit state designed slopes using first order reliability methods coupled with response surface methodology. Proc. 9 th SAYGEC, September, 2017. |
| MACROBERT CJ
DAY PW | 2016 | Preparation considerations for using soil-salt mixtures to model soil fabric changes. 1 st Southern African Geotechnical Conference, May 2016 |
| BARRATT BJ and
DAY PW | 2016 | Geotechnical design using SANS 10160: a comparison with current practice. 1 st Southern African Geotechnical Conference, May 2016 |
| DAY PW | 2015 | 2015: A geotechnical perspective. Civil Engineering Vol 23 No 11. SAICE, Johannesburg. |
| DAY PW | 2014 | SANS 1936:2012 (Development on Dolomite Land) Fundamental questions and practical issues. Dolomite Seminar, 25 & 26 June 2014. SAICE, SAIEG, Dept Geology University Pretoria. |
| DAY PW | 2013 | A contribution to the advancement of geotechnical engineering in South Africa. D.Eng thesis, University of Stellenbosch. |
| DAY PW | 2013 | Definitions and Characterisation of Failure & Data Collection. Fourth International Seminar on Forensic Geotechnical Engineering, 1012 January 2013 at Bengaluru, India. |
| FANOURLAKIS GC,
DAY PW
GRIEVE GRH | 2012 | The effects of placement conditions on the quality of concrete in large-diameter bored piles. Journal of the South African Institution of Civil Engineering, Volume 54, Number 2, October 2012 |
| DAY PW | 2011 | SAICE's interaction with the South African Bureau of Standards. Civil Engineering, November 2011. SAICE, Midrand. pp60-61. |
| FANOURLAKIS
GC, DAY PW and
GRIEVE GRH | 2011 | The effect of site practices on the integrity of large diameter bored piles. 14th Pan-American Conference on Soil Mechanics and Geotechnical Engineering and 64th Canadian Geotechnical Conference, Toronto, 2-6 October 2011. |
| DAY PW | 2011 | SANS 10160-5: Basis for geotechnical design and actions. SANS 10160:2010 induction seminars, October and November 2011. University of Stellenbosch. |

Publications

- BREYL, J, WARDLE GR and DAY PW 2011 Theoretical evaluation of the influence of cohesion on lateral support design. Proc. 1th ARCSMGE, Maputo, 18 – 21 July 2011. p 249-254.
- DAY, PW 2011 Managing poorly quantified risks by means of national standards with specific reference to dolomitic ground. 3rd International Symposium on Geotechnical Safety and Risk (ISGSR2011). Munich, 2/3 June 2011.
- DAY, PW & JAROS, MB 2010 Application of Eurocode 7 to the geotechnical design of a stadium roof support arch in South Africa. 14th Danube European Conference Soil Mechanics and Geotechnical Engineering, Bratislava, Slovakia, June 2010.
- SCHUPPENER, B
BOND, A,J,
DAY P.
FRANK, R
ORR, T.L.L.
SCARPELLI, G
SIMPSON, B 2009 Eurocode 7 for geotechnical design – a model code for non-EU countries? 17th International Conference Soil Mechanics and Geotechnical Engineering, Alexandria, Egypt. October 2009.
- RETIEF, J.V.
DUNAISKI, P.E., &
DAY, P.W. 2008 An Overview of the Revision of the South African Loading Code SANS 10160. Chapt. 1.1. Inst. for Structural Engineering, Stellenbosch Univ., S. Africa.
- DAY, P.W. AND
RETIEF J.V. 2008 Part 5: Basis of Geotechnical Design and Actions. Background Report to SANS 10160, Chapt. 5.1. Inst. for Structural Engineering, Stellenbosch Univ., S. Africa.
- DAY, PETER
JACOBSZ, SW 2008 Are we getting what we pay for from geotechnical laboratories? Civil Engineering, April 2008, Vol. 16 No. 4.
- DAY, P.W. 2007 Forensic Geotechnical Engineering Investigations: Data Collection. TC40 Workshop on Forensic Engineering. 13th Asian Regional Conference ISSMGE, Kolkata, Dec 2007.
- DAY, PETER 2007 Krebs Ovesen's Legacy to South Africa: A harmonized basis of design code. Spirit of Krebs Ovesen Session – Challenges in Geotechnical Engineering. XIV European Conference on Soil Mechanics and Geotechnical Engineering, Madrid 2007.
- DAY P.W. 2007 The Effect of Free Fall Placement of Concrete in Large Diameter Bored Piles. SAICE Geotechnical Division. Pile Design & Concrete Practice 6-7 March 2007, Midrand.
- DAY P.W. 2006 Geotechnical Engineers and the Construction Regulations. Journal of SAICE, Volume 48, No. 4, December 2006.
- VERMEULEN N.J.
DAY P.W. 2005 Dewatering at the Port of Ngqura: A case study. Proc 16th ICSMGE, Osaka, Japan.
- DAY P.W. 2005 Issue 1: Long term settlement of granular fills. Academic-Practitioner Forum, Proc 16th ICSMGE, Osaka, Japan.
- DAY P.W. 2005 Issue 2: Development of Advanced Constitutive Models – should these proceed. Academic-Practitioner Forum, Proc 16th ICSMGE, Osaka, Japan.

Publications

WARDLE G.R. DAY P.W.	Dec 2003	Settlement predictions and monitoring of heavy industrial structures at Saldanha Bay, Cape West Coast, South Africa. 13th African Regional Conf. on Soil Mech. and Geotech. Eng. Morocco.
ORR, T.L.L. MATSUI, K. DAY, P.W.	Apr 2002	International practice with regard to geotechnical; investigation methods and the determination of parameter values. IWS Kamakura, Japan.
DAY, P.W. WARDLE, G.R. MODISHANE, T.L.	Oct 2001	Pre-loading to reduce settlement below heavy industrial structures. SAICE Ground Improvement Seminar, Midrand.
DAY P.W.	June 2001	Case Histories and Lessons from Failures. Zimbabwe Institute of Engineers Congress, Harare.
KREBS OVESEN, N. DAY, P.W. (editors)	Nov 2000	LSD 2000 Proceedings of International Workshop on Limit State Design in Geotechnical Engineering. Melbourne, Australia.
DAY, P.W.	1999	Braced excavation – deformation and displacement of walls. Proceedings of International Symposium on geotechnical aspects of underground construction in soft ground IS Tokyo 99, General Report, Session 4, p43 – 52. Balkema, Rotterdam.
BRINK, D. DAY, P.W. DU PREEZ, L.	Oct 1999	Failure and remediation of BulBul Drive Landfill: KwaZulu-Natal, South Africa. 7th International Symposium on Waste Management and Landfill, Sardinia.
DAY, P.W. KEMP, A.	1998	South African Loading Code: Past, Present and Future. Civil Engineering, Volume 7, No 4. SAICE.
DAY, P.W.	1998	Interface Testing of Geomembranes and its application to Landfill Design. SAICE Geotechnical Division / SAIEG 1999 Lecture Course.
DAY, P.W.	Sept 1997	Limit State Design – A South African Perspective. Discussion Session 2.3, XIV International Conference on Soil Mechanics and Foundation Engineering, Hamburg.
DAY, P.W. WARDLE, G.	Oct 1996	Effect of Water on Settlement of Opencast Pit Backfill: Case Histories of Investigation and Performance. SAICE Seminar on Hydrology of Made Ground, Johannesburg.
DAY, P.W.	Oct 1996	Geotechnical Engineers and the Occupational Health and Safety Act. SAICE Journal, Volume 3, Third Quarter.
DAY, P.W. HARBUZ, H.	Jun 1996	Foundation Investigation, Selection and Design. Symposium of Industrial Civil Engineering, Rand Afrikaans University, Johannesburg.
DAY, P.W.	Sept 1996	Implementation of Eurocode 7 in South Africa. Eurocode – Towards Implementation, Institution of Structural Engineers, London.
DAY, P.W.	Dec 1995	Design, Construction and Performance of Deep Basement Excavations in South Africa and Zimbabwe. Eleventh African Regional Conference on Soil Mechanics and Foundation Engineering, Cairo.
DAY, P.W.	Mar 1994	Safety of Men Working in Testpits and Auger Holes. Requirements of Occupational Health and Safety Act (85, 1993). Safety and Health in

Publications

		Industry, Construction and Mining. The New Legislation. LGI, University of Pretoria. Bifsa Conference Centre, Midrand.
DAY, P.W.	Jan 1994	Factors Influencing the Movement of Retaining Structures. Plenary Session C, 13th International Conference on Soil Mechanics and Foundation Engineering, New Delhi.
HOWIE, C.T; SCHEELE, F; DAY, P.W.	Jan 1994	Soldier Pile Analysis using Non-linear Beam-Foundation Theory. Proceedings 13th International Conference on Soil Mechanics and Foundation Engineering, New Delhi, Volume 4, 1937 – 1402.
DAY, P.W.; SCHWARTZ K	Jan 1994	National Report on Codes of Practice and Authoritative Reports on Braced Excavations in Soft Ground, South Africa, Africa Region. International Symposium on Underground Construction in Soft Ground, New Delhi.
DAY, P.W.	May 1992	Determination of Settlement Parameters for Opencast Pit Backfill by means of Large Scale Tests. Proc. Conf. on Construction Over Mined Areas. SAICE, SANGROM, SAIEG, AEG.
DAY, P.W.	Aug 1990	Site Investigations for River Bridges. 10th Annual Transportation Convention, Pretoria.
DAY, P.W.	Jun 1990	Design and Construction of a Deep Basement in Soft Residual Soil. Proc ASCE Speciality Conference on Design and Performance of Earth Retaining Structures, Cornell University, Ithaca NY.
DAY, P.W.	Aug 1990	Observed Movement and Remedial Measures to Northern Face of an Excavation in Jeppe Street, Johannesburg. SAICE Lateral Support Code Launching Conference, Johannesburg.
SAICE Geotechnical Division	1989	Code of Practice, Lateral Support in Surface Excavations. SAICE, Geotechnical Division, 1989. (Code compiled by Geotechnical Division Sub-Committee including P.W. Day). Awarded J.E. Jennings award for best SA geotechnical publication in 1991.
DAY, P.W.	Nov 1989	Design of Raft Foundations (using Lytton's Method). Proc. Course on Design of Stiffened Raft Foundations, CSIR, Pretoria.
DAY, P.W.	Apr 1988	Reinforcement of Cast in situ Piles. Proc. of Course on Pile Design and Construction Practice, Geo Div, SAICE, Johannesburg.
WILLIAMS, A.A.B.; PIDGEON, J.T. DAY, P.W.	1985	Expansive Soils: State of the Art. The Civil Engineer in South Africa, Vol. 27, No.7, pp 367
DAY, P.W. WAGENER, F. VON M.	1984	Investigation Techniques on Dolomites in South Africa. Proc. 1st Multidisciplinary Conference on Sinkholes, Orlando, Florida. pp 153-159.
WAGENER, F. VON M. DAY, P.W.	1984	Construction on Dolomite in South Africa. Proc. 1st Multidisciplinary Conference on Sinkholes, Orlando, Florida. pp 403-413.
NICHOLAYSEN, L.O.	1984	On the Stress Changes within a Porous Elastic Sphere during Consolidation and their importance for the Supply of Power to the Gravitational Dynamo. Terra Cognition Vol. 4, No. 2, pp 239.

Publications

DAY, P.W.
HOCH, A.

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|---|-------------|---|
| <p>NICHOLAYSEN,
L.O.
DAY, P.W.
HOCH, A.</p> | <p>1982</p> | <p>Loss of Deep Mantle Carbonic Reduced Volatiles during N Polarity, Storage of these Volatiles during R Polarity. Lunar and Planetary Inst. Topical Conference, Alexandria, Minnesota. October 9 – 12th. LPI tech report 83-01. pp 119-121.</p> |
| <p>DAY, P.W.
WATES, J.A.
KNIGHT, K.</p> | <p>1981</p> | <p>Skin Friction on Underslurry Piles. 10th International Conference on Soil Mechanics and Foundation Engineering, Stockholm. pp 689-692.</p> |
| <p>DAY, P.W.</p> | <p>1981</p> | <p>Properties of Wad. Seminar on Engineering Geology of Dolomite Areas. Pretoria 1981. pp 135-147.</p> |
| <p>DAY, P.W.</p> | <p>1981</p> | <p>Dumprock and Chert Gravel Mattresses. Seminar on Engineering Geology of Dolomite Areas. Pretoria 1981. pp. 256-260.</p> |
| <p>DAY, P.W.</p> | <p>1981</p> | <p>A Comparison and Discussion of Investigation Techniques on Dolomites. Ground Profile No. 27, July 1981.</p> |
| <p>DAY, P.W.</p> | <p>1980</p> | <p>Geometrical Properties of Unsymmetrical Sections by Line Integration. Civil Engineering in South Africa, No. 6 Vol. 22, June 1980, pp 159-162. (Awarded SAICE awards for Best Graduate Contribution and Best Short Paper or Technical Note published in the Transactions in 1980).</p> |
| <p>DAY, P.W.</p> | <p>1980</p> | <p>The Application of Three Dimensional Consolidation Theory to the Movement of Ground Around an Underslurry Pile. MSc Thesis. University of Natal.</p> |
| <p>DAY, P.W.</p> | <p>1977</p> | <p>An Outline by Consolidation Theory and a Simple Numerical Solution to the Biot Equation. Pulse, Vol. 224, pp 26-34, University of Natal.</p> |