

CURRICULUM VITAE of Heinz Erasmus Jacobs



A. PERSONAL INFORMATION

FULL NAMES	Heinz Erasmus Jacobs
e-Mail	hejacobs@sun.ac.za
QUALIFICATIONS	2004 D.Eng.(Civil), RAU - now University of Johannesburg 1997 M.Eng.(Engineering Management) Cum Laude, RAU; 1995 Certificate (C++ programming), RAU; 1994 B.Eng.(Civil) and 1992 B.Eng.(Mechanical), RAU.
REGISTRATION	Professional Engineer (Pr.Eng.), Engineering Council of South Africa (ECSA)
MEMBERSHIP	Member: IWA; Water Institute of Southern Africa
NRF-RATING	South African National Research Foundation, Rated C2
CURRENT POSITION	Associate Professor, Department of Civil Engineering at Stellenbosch University.
SPECIALISATION	Water services planning; water demand analysis and demand modelling; network hydraulics and master planning, water demand management
EXPERIENCE	23 Years (19 as registered professional engineer; 11 years as full time academic)
ACADEMIC	Moved from professional practice (1995-2006) to academic career (2007-2017).
AWARDS	SU Rector's Award for Excellent General Performance, 2011 & 2015 SU Rector's Award for Excellent Research, 2010.

RESEARCH OUTPUT SUMMARY

ResearchGate profile available at <https://www.researchgate.net/profile/Heinz_Jacobs2/publications>

Note: Detail of research projects, current research and related research outputs available on request.

TEACHING AND LEARNING

Overview of teaching and learning, and supervision:

- Aggregated lecturing experience includes the equivalent of 7 full semester modules prior to 2006, plus 9 as senior lecturer, plus 6 semester modules as Associate Professor.
- Supervisor for numerous research Masters and PhD/doctoral students
- Full promoter for research students who won awards for Best Post-Graduate Thesis in Water Engineering, 2012, Haw & Inglis prize for Best Civil Engineering Master's Student, 2012, Joint-winner of SUN GLS prize for Best Thesis in Water Engineering, 2011
- Three post-graduate students have won grants from Canadian Bureau for International Education (CBIE) for 4-month exchange programmes to Canada (2010 & 2012), and through the SKILL programme funded by the Royal Netherlands Embassy to Delft University of Technology (2013).
- Organised >10 post-graduate block courses and invited to present at >10 courses at other institutions; Independent examiner for >10 post-graduate research candidates, or modules at other institutions; External examiner for various courses and students at other institutions
- Successfully won 4 grants and completed research projects with subsequent papers or research reports, each presented at the annual SUN Teaching and Learning Conference.

EDITORIAL AND REVIEWS

Served peers and the fraternity via editorial commitments and reviews:

- Editorial Board of WaterSA, ISI listed Journal (2008 - 2011), 2016 to date
- Editorial Board (2014-2016): Suid-Afrikaanse Tydskrif vir Natuurwetenskap & Tegnologie (South African Journal for natural Sciences and Technology, which is the only ISI-listed journal publishing in Afrikaans and Dutch)
- Jacobs HE & A Ilemobade (2012-2013), Guest Editors WaterSA Journal's WISA2012 Special Edition

- Journal of the South African Institute of Civil Engineers, Editorial Panel (2009-2012)
- Van Zyl, JE, Ilemobade, AA and Jacobs, HE (2008), Editors of the Proceedings of the 10th ASCE Annual Water Distribution Systems Analysis Conference, WDSA2008, 17-20 August 2008, Kruger National Park, South Africa
- Jacobs HE (2009), Guest Editor WaterSA Journal's WISA2008 Special Edition
- Has peer reviewed numerous articles for 6 different ISI-listed journals.

CAREER PROFILE

Academic

Jul 2011 to date	Stellenbosch University (Associate Professor / Pr.Eng.)
Apr 2006 - Jun 2011	Stellenbosch University (Senior lecturer / Pr.Eng.)
2000 - 2004	RAU - University of Johannesburg (Part time visiting lecturer)
1993 - 1995	RAU - University of Johannesburg (Part time research assistant & lecturer).

Consulting Engineering Practice

Aug 2005 - Mar 2006	GLS Consulting Engineers (Pr.Eng.), Stellenbosch office (Pr.Eng.)
Jan 2005 - Aug 2005	Quaddra Development Solutions (Inc.), Vernon office, British Columbia, Canada (ECSA Pr.Eng. registration recognised as per the Washington accord)
Oct 2002 - Dec 2004	GLS Consulting Engineers, Stellenbosch office (Pr.Eng.)
May 1998 - Sep 2002	KV3 Consulting Engineers, Worcester office (Professional Engineer)
May 1996 - April 1998	KV3 Consulting Engineers, Worcester office (Engineer in Training)
1996 (Jan - May)	Kruger & Pretorius Research and Development Engineers, Cape Town office (Engineer in Training)
1995 (Jan to Dec)	Merz & McLellan (South Africa) Consulting Engineers, Johannesburg office (Engineer in Training).