

CURRICULUM VITAE

Academic

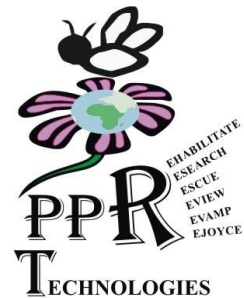
HELENA M VENTER

SACNASP : Pr.Sci.Nat, 400266/06

AgriSETA Assessor: AGR/ASS/2422/19

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PERSONAL PARTICULARS

Surname : Venter
Maiden name : de Frey
Full name : Helena Maria
ID number : 6401110007089
Defence Force number : 81426843VK
Nationality : RSA
Gender : Female
Birth date : 11 January 1964
Birthplace : Johannesburg, Gauteng, RSA
Marital status : Married (30 years)

Husband : Venter, Jacobus Petrus
Children : Son, Jaco (27)
: Daughter, Adri (22)

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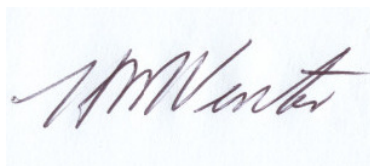
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SACNASP registration : Pr.Sci.Nat, reg. nr. 400266/06

AgriSETA Assessor : AGR/ASS/2422/19



DR H M VENTER

September 2022

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ACADEMIC QUALIFICATIONS

- Matriculate at Menlopark Secondary School, Pretoria in 1981 with the following subjects:

Biology	- HG - B
Science	- HG - B
Mathematics	- HG - B
English	- HG - C
Afrikaans	- HG - C
North Sotho	- SG - B

- Study at the University of Pretoria (as bursary holder of the Transvaal education department) and obtain the degree BSc in 1986 with the following subjects:

Chemistry 1	- 65%
Physics 1	- 64%
Mathematics 1	- 57%
Botany 3	- 62%
Zoology 3	- 55%

- Obtain a teachers diploma for secondary education at the University of Pretoria in 1987.

- Obtain the degree BSc (Hons.) in Botany at the University of Pretoria in 1988 with subjects:

Botany 700	- 69%
Major subjects: Cytology, Physiology and Reproductive biology	
Biometry 1	- 82%

- Obtain the degree MSc in Botany at the University of Pretoria in 1991:

Dissertation: A Biological study of *Tylosema esculentum*

- Obtain a PhD degree with distinction, specialising in Botany, at the Faculty of Biological and Agricultural Sciences, Department of Botany, University of Pretoria in 1999.

Thesis: A Bloat-risk classification method for pasture legumes.

AWARDS

- Protein Research Trust award for the best PhD thesis submitted during 1999.
- Honouree Academic Colours University of Pretoria, 1999.
- Environmentek Excellence Award 2004 - Technology for Development as part of the Waste to Wood Poverty Alleviation Project Team.
- Environmentek Excellence Award 2005 - Technology for Development as project manager of Seeds For A Better Future.

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MILITARY TRAINING

- Complete one year of voluntary military service at the South African Army Womens College at George in 1982.

COURSES

- Seminar presentation course, RGI, 18 January 1988.
- Electron microscopy, department of Electron microscopy, University of Pretoria, 13-23 February 1989.
- Orientation course, Administration: "Volksraad", 13-16 February 1989.
- Attend seminar on Genetics at the University of Pretoria, 27 March 1989.
- Management orientation course, Administration: "Volksraad", 24-28 July 1989.
- Short course in biometry, RGI, 26-29 March 1990.
- Genstat 5 course, RGI, June 1990.
- Two-day seminar on effective report, proposals and memo writing, presented by MiT at RGI, Roodeplaat, 10-11 February 1994.
- Attend a programme in Project Management, presented by Prof. Braun of the Graduate school of Business, University of Stellenbosch, 29 May - 1 June 1995.
- Attend a Creative research and development management course, presented by O Badenhorst of Inside lane, 11-15 May 1996.
- Attend a one-week course on C-programming at Incus data at Denel Informatics, Pretoria, 10-14 March 1997.
- Dr. Eli Goldratt's Executive Seminar on using a TOC management approach at the Holiday inn Garden Court, Johannesburg, 29 February to 2 March 2000.
- Attended a TOC based Project management and Scoping and design Course at the CSIR presented by Dr Dirk Grobler, 15 – 17 May 2000.
- Attend Eucalypt Tree Breeding Course at CSIR presented by Tree Improvement group, 13 - 29 August 2001.
- Attend Cogmotics workshop presented by AHA learning, 25 - 30 March 2003.
- Attend Cilla course: The marketing of knowledge-intensive offerings presented at the CSIR, 13-14 May 2003.
- Attend a software course in improved image analysis using Analysis presented by Wirsam Scientific, 30 November 2004.
- Attend the Investment in Excellence Course presented by Cilla at CSIR , 28 - 30 September; 8-9 November 2004; 1 April 2005.
- Completed Agribusiness course (Level 1) shortcourse at AgriColleges International online February to May 2018
- Completed Cybersafety, Google suite for students and How to Study online courses, 14 March 2018. Consilience Learning Reimagined & AgriColleges International.
- Completed Accredited Assessors training at THRIVE Learning Facilitation, Reg. no 2003/007761/23, 7-8 June 2018.
- Completed Accredited Moderators training at THRIVE Learning Facilitation, Reg. no 2003/007761/23, 8-9 October 2018.

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CAREER SUMMARY

- 1 January 1988 to 31 June 1991
Assistant Agricultural Researcher at the Roodeplaat Grassland Institute.
- 1 July 1991 to 30 July 1999
Agricultural Researcher at the ARC-Range and Forage Institute.
- 1 August 1999 to 31 December 2000 Project Management Co-ordinator at CSIR-Environmentek
- 1 April 2001 - 31 March 2005
CSIR Implementing project manager of Seeds For A Better Future poverty alleviation project on behalf of the Department of Science and Technology, South Africa.
- 1 January 2004 – January 2008
Task team leader for the SERA alliance Plant Propagation and Cultivation technologies task team.
- 1 January 2001 - July 2006
 - Project leader/Researcher at CSIR NRE (previous Environmentek), Forestry Programme, Tree Improvement group.
 - Manager of the Reproductive biology research laboratory. Responsible for the development of plant propagation research.
- 1 August 2006 - 31 January 2008
 - Senior Researcher CSIR NRE, Forestry programme, Tree Improvement
 - Manager of the Reproductive biology research laboratory. Responsible for the development of plant propagation research.
- 1 February 2008 – current
 - Entrepreneur – Owner and Environmental Rehabilitation Consultant at Plant Propagation and Rehabilitation Technologies cc. specialising in plant propagation, environmental rehabilitation, re-location of red data plant species, reproductive biology research, student mentoring and project management.
 - PPR Technologies: Agricultural production research and development projects. Business and good agricultural practices (GAP), on-farm, guidance for new and existing production farms.
 - Since November 2013: VegPatch - Owner and vegetable production consultant, specialising in small vegetable gardens (1 square meter gardening) for home food production and small house hold leafy vegetable hydroponic production units.
 - Since March 2016: GreenSpy – environmental monitoring technology for greenhouses and hydroponic units.
- 1 January 2018 - current
 - Unit Manager: Environmental Rehabilitation / Restoration at Eco Info and Associates Environmental Services, BBBEE level 2 company

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PROJECT MANAGEMENT

- As an independent researcher has been responsible for managing own projects.
- Was the Project Management Co-ordinator for the ARC-Range and Forage Institute responsible for the implementation of project management principles in all projects at the Institute, as well as to assist fellow researchers with obtaining the necessary skills to implement project management principles. Responsibilities also include solving problems that may occur with the software currently being used for project management, as well as solving problems with access to the software.
- Was responsible for drafting the 1999 Project Management Implementation Plan for the ARC-Range and Forage Institute.
- Has written a Project Management Implementation manual for the research staff at the ARC-RFI.
- Was for two years a Project Manager Coordinator for the CSIR Environmentek responsible for assisting researchers to apply project management principles in their research projects.
- Have used the Theory of Constraints based approach in own research projects and have experience in outcome based project scoping and design.
- Have successfully completed a programme in Project Management presented by the Graduate School of Business, University of Stellenbosch in 1995.
- Attended Dr. Eli Goldratt's Executive Seminar on using a TOC management approach at the Holiday inn Garden Court, Johannesburg in 2000.
- Have studied various literature on the subject of project management including:
 - It's not Luck, author: Eliyahu M. Goldratt, 1994.
 - Critical Chain, author: Eliyahu M. Goldratt. 1997.
 - Making it Happen, a non-technical guide to project management, author: Mackenzie Kyle, 1998.
 - Goodbye MBA, authors: P. Oosthuizen, M. Cster, P. Delarey, 1998.
 - PMBoK (Project Management Body of Knowledge), The Project Management Institute of America, 1998.
 - Thinking for a Change. Putting the TOC Thinking Processes to Use, author: L.J. Scheinkopf, 1999.
 - Project Management, A managerial approach, 4th ed., authors: J.R. Meredith & S.J. Mantel Jr., 2000.
 - Project Management in the Fast Lane. Applying the Theory of Constraints, author: P.C. Newbold, 1998
 - The Healing Manager, How to build quality relationships and produce cultures at work, authors: W Lundin & K Lundin, 1993.
- Project manager of rehabilitation and research projects for clients of Plant Propagation and Rehabilitation Technologies cc.

RESEARCH PROJECTS

- Study the anatomy, reproductive biology, ecology and cultivation possibilities of *Tylosema esculentum*.
- Study the seed morphology of *Macroptilium lathyroides* cultivars.

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- Evaluate *Voandzeia subterranea* cultivars in a cutting trial to determine the best cultivars to be used for a breeding programme.
- Study the reproductive biology of *Portulacaria afra*.
- Study the leaf anatomy and histochemistry of legume species in order to determine if suitable parameters could be selected to be used in a screening programme for bloat.
- Study the reproductive biology and genetics of a field of *Themeda triandra* plants under fire and grazing treatments.
- Study the pollen viability and fertilization of *Vigna unguiculata* cultivars.
- Study the leaf anatomy of legume pastures to determine the relationship between organizational leaf anatomy and leaf strength as well as the tempo of digestion of the leaf by rumen microbes. Techniques applied are standard anatomical techniques, image analysis, plant biomechanics and stereology. Statistical analyses include AMMI, CVA and Neural network computing.
- Study the reproductive biology characteristics of commercial forestry species with the aim to overcome the barriers to successful cross pollinations between different *Eucalyptus* spp. To develop an understanding of the incompatibility barriers to successful cross pollinations in tree breeding.
- Study the fertility mechanism of *Eucalyptus* trees to develop mass hybrid seed production methodology for hybrid tree production for the pulp and paper industry.
- Develop a high technology greenhouse trolley for experimental purposes to study the rooting properties of *Eucalyptus* hybrids.
- Study the root trimming effect of different copper-polymer nursery containers.
- Post Doc study: Understanding tree reproductive biology for hybrid seed production. Develop a model to determine best place and species combination for open pollinated seed orchards for hybrid seed production. Studying breeding systems of *Eucalypt* tree species with relation to pollen viability and inter specific incompatibility. Studying the artificial Protandry technique for controlled cross pollinations.
- Study the germination requirements of several *Aloe* species.
- Study the seed germination of *Cassinopsis ilicifolia* in different germination media, Clean river sand, River sand soaked with worm tea and mix of commercial germination media and vermiculite.
- Desktop study to determine the probability that certain characteristics can be used as ecological linkages to indicate the presence of difficult to spot animals for EkoInfo cc (September 2008).

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- Mentoring of two researchers of the Early detection and rapid response programme for alien invasive plant, SANBI (South African National Biodiversity Institute) (2009 – 2012).
- Desktop study: Ecological linkages between key indicator species of the Midvaal Marina pipeline study area for EkoInfo cc & Nature and Business Alliance (January 2009).
- Desktop study of *Macledium pretoriensis*, EkoInfo cc (March 2009).
- Research the probability of measuring leaf thickness accurately and quickly. This is done as a prelude to the future development of a rapid screening method to identify polyploid *Eucalyptus* trees based on differences in leaf thickness. Clients: Creation Breeding Innovations cc and Hans Merensky Timber Holdings (November 2012).
- Desktop study: Report on research done to determine the best plant species, plant characteristics and most suitable planting techniques for rehabilitation of co-disposal site at Mooiplaats Colliery, Coal of Africa (March 2013).
- Seedbank study to determine the seed viability and species diversity in the soil of samples collected at rehabilitated sites at Kromdraai. Client: EkoInfo cc and Anglo American (2013).
- Seed germination studies to determine the best germination protocol for the germination of six indigenous South African herbaceous species – *Pentanisia angustifolia*, *Haplocarpha scaposa*, *Hypoxis hemerocallidea*, *Hypoxis argentea*, *Becium obovatum* and *Gnidia caffra*. Client: Johan Wentzel of Wild Flower cc (2014).
- Investigating the impact of cover crops and superabsorbent polymers (Hydrogel) as soil amelioration techniques on the improvement of soil condition and land capability in post mining rehabilitation areas (2017-2019).
- Applicability of Good Agricultural Practices in Hydroponic leafy production system at community based projects.
- Investigating the use of superabsorbent polymer (Hydrogel) during establishment of indigenous trees in a rehabilitated mine area with different clay content to determine – will hydrogels improve tree survival?
- Investigating if adding a superabsorbent polymer (Hydrogel) to the planting medium of nursery bag when transplanting young trees will contribute to a better survival of young trees and if it will be economical for a nursery to provide these pre-treated trees for land rehabilitation projects.

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TECHNIQUE EXPERIENCE

- Epi-Fluorescence, DAPI and Phase contrast microscopy.
- Transmission electron microscopy.
- Scanning electron microscopy.
- Spectrophotometry.
- Basic histochemistry and cytochemistry techniques and wax embedding techniques.
- Image analysis and stereology.
- Cross pollination technology.
- Seed germination
- Vegetative propagation
- Hydroponics
- Electronic environmental monitoring

EXTERNAL EXAMINER/ LECTURING/ MENTORING

- External examiner for Faculty of Education, Biology JBI 310,320; University of Pretoria, 2003 - 2005.
- External examiner for Faculty of Natural and Agricultural Sciences, Department of Botany, BOT 745 - Seed & Fruit Morphology; BOT 353 - Ecophysiology; BOT 71 Plant Morphology; BOT 743 - Gynology; BOT 744 - Andrology; University of Pretoria, 2003 - 2005.
- Co-leader for two MSc students and one PhD student at the department of Plant Production and Soil Sciences, University of Pretoria:
 1. PhD: Mr. Simon Mng'omba - Propagation of potential wild tree crops for biodiesel - 2005 - 2006/7
 2. MSc: Miss Anzelle Venter - Reproductive biology studies on 4 pure and 2 hybrid *Eucalyptus* species - 2005 - 2007.
 3. MSc: Miss Melrose Tlou Ramokonyane - Reproductive biology studies on 4 pure and 2 hybrid *Eucalypt* species - 2004 - 2007
- External examiner for Faculty of Natural and Agricultural Sciences, department Plant Production and Soil Sciences: HCS 783, HSC 788, HSC 460 & HSC 789 – Production systems subtropical and tropical fruits, University of Pretoria, 2006-2010.
- External examiner for Faculty of Natural and Agricultural Sciences, Department of Botany: BOT 717, University of Pretoria, 2006-2007.
- Mentor of two mentee's of the Early detection and Rapid Response program at SANBI funded by the Department of Water Affairs, June 2009 to March 2010.
- Mentor for Thulisile Jaca as part of the SANBI Mentorship programme: Early detection and evaluation of invasive alien plants, 2010 – 2013.
- External examiner for Landscape Technology Management 3 (LMT 300T), Department of Horticulture at Tshwane University of Technology, 2010 – 2011.
- Present a lecture on Rehabilitation and Planting Techniques to Landscape architecture students at the dept. of Architecture, University of Pretoria, August 2011 & 2012.
- External examiner for Faculty of Natural and Agricultural Sciences, department Plant Production and Soil Sciences: HCS 783, University of Pretoria, 2011-2013.
- External examiner for Faculty of Education, Department of Science, Maths and

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Technology: Courses JPK 210, 220, 310 and 320 Botany, University of Pretoria. 2012-2013.

COMMUNITY PROJECTS

- Project leader for DACTS funded Poverty Alleviation Project, Seeds for a Better Future. The project is concerned with the establishment of high quality, commercial forestry Eucalyptus mass production seed orchards at communities. Concurrently an SMME is developed and the community people are trained to manage a commercial seed production and seed sale business for both the local and international commercial forestry markets. Three seed orchards have been established of which two are located in the Mpumalanga province and one in Limpopo province.
- Part of the SERA Sustainable Rural Development task team concerned with the launching of the Greater Giyani Indigenous Resource Development Programme, 2003 – 2005.
- Community vegetable garden at Lux Mundi Church in Pretoria, 2009 – current.
- Outreach and development of vegetable garden project at a bible school and orphanage in Mozambique, 2010.
- Tree planting at Weavers Nest, Moreleta Spruit, Pretoria, 2010.
- Present a talk on Biodiversity and Us to Gr 4 – 7 at Laerskool Garsfontein (4 August 2011).
- Guest speaker at Laerskool Garsfontein on tree planting day (5 Sept. 2011)
- Employment of local community members during rehabilitation projects, skills transfer and training.

COMPUTER LITTERACY

- Windows; Microsoft Office 365 2022:Word, Excel, Access and PowerPoint; MindManager Business edition; Apple.
- Internet experience.
- MS Project/ Project Life

CONFERENCES/SYMPOSIUMS/FARMERS DAY'S

CONFERENCES

- Present poster at the 24th annual GSSA congress, 15-20 January 1989, Windhoek, Namibië.
- Present poster at the 16th Annual SAAB congress, 17-19 January 1990, Grahamstown.
- Present paper at the 17th annual SAAB congress, 15-18 January 1991, Pietermaritzburg.
- Present poster in absentia at the 13th annual AETFAT congress, 4-11 April 1991, Zomba, Malawi.
- Attend the International Grassland Congress held at the CSIR, Pretoria, 6-10 May 1991.
- Present poster at the 18th annual SAAB congress, 13-17 January 1992, Durban-Westville.

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- Present poster at the 28th annual GSSA congress, 19-21 January 1993, UOVS, Bloemfontein.
- Attend the 20th Annual SAAB congress, 10-14 January 1994, Wits University, Johannesburg.
- Present poster at the XIVth AETFAT congress, 22-27 August 1994, WICC-IAC, Wageningen, The Netherlands.
- Present a paper and a poster at 32 annual GSSA congress, 13-16 January 1997, University of Port Elizabeth, SA.
- Attend the 29th Annual SAAB congress, 8 - 11 January 2003, University of Pretoria. Pretoria.
- Attend the 8th Annual conference of the International Plant Propagators Society, South Africa Potential Region, 2 - 4 March 2005, St George Hotel, Pretoria.
- Attend and present paper at the 9th Annual conference of the International Plant Propagators Society, South African Region, 25 - 17 March 2006, Brainline, Rose Hall, Montana, Pretoria.
- Present a paper at the IUFRO Working group 2.08.03 Improvement and culture of Eucalypts: Eucalypts and diversity - balancing productivity and sustainability conference. ICC Durban, South Africa 22 - 26 October 2007.
- Attend and co-author of two posters at the 36th Annual conference of the South African Association of Botanists (SAAB) at North-West University, Potchefstroom, South Africa, 11 - 14 January 2010.
- Attend the 1st Annual Conference of the Land Rehabilitation Society of Southern Africa (LaRSSA) at Diep In die Berg, Pretoria, South Africa, 9-10 October 2013.
- Attend the 2nd Annual Conference of the Land Rehabilitation Society of Southern Africa (LaRSSA), Land Rehabilitation - Successes and Failures at Glenburn Lodge, Muldersdrift Gauteng, 9-12 September 2014.
- Attend the 3rd Annual LaRSSA conference: Productive Value from Rehabilitated Land, 8 - 11 September 2015. Glenburn Lodge, Muldersdrift, Gauteng.
- Attend the 4th Annual LaRSSA conference: The rehabilitation business case 13-16 September 2016. Kimberley, Northern Cape.
- Attend the 5th Annual LaRSSA conference: Resilient landscapes in a changing climate. 1-4 August 2017. Olifants River Lodge, Mpumalanga.
- Attend the 6th Annual LaRSSA conference: Transforming the Rehabilitation Landscape, 13-16 August 2018, Champagne Sports Resort, Drakensberg, Kwazulu Natal.
- Present a paper at the 7th Annual LaRSSA Conference: Rehabilitation in Practice, 15 - 18 July 2019, Glenburn Lodge, Muldersdrift, Gauteng.

SYMPOSIUMS/ WORKSHOPS

- Attend SAFSA Grass day symposium, 21 September 1988.
- Attend Seed symposium at the Margaretha Mess Institute, University of Pretoria, 6 October 1989.
- Attend Valley Bushveld Symposium in Grahamstown, 5-9 November 1990.
- Present poster at the Annual Research Meeting of the Karoo biome, 3-5 October 1990, Elsenburg.
- Attend Planning Committee meeting - Grassland research, Free State area, at Molopo, 19-22 March 1991.

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- Present two papers at the 3rd symposium on Science and Technology, 6-8 October 1992, Harare, Zimbabwe.
- Attend the First symposium of the Natal Bushveld Working Group at Spioenkop, 1-3 October 1991.
- Attend Tree breeding symposium at ICFR, Pietermaritzburg, 26 - 28 June 2001.
- Attend Eucalypt Interest Group meeting, Tzaneen, 15 May 2002.
- Attend Tree Breeding Symposium at ICFR, Pietermaritzburg, 16 July 2003
- Do a presentation on reproductive research at the Seed Orchard Research Work Group (SORWG) meeting at ICFR, Pietermaritzburg, 6 April 2005.
- Presentation at the SORWG meeting at ICFR, Shaw Research Centre, Sappi, Howick, March 2006.
- Attend a small business training workshop presented by Hero's Small Business Training at Brooklyn, Pretoria, 14 April 2010.
- Course presenter at the pre-conference workshop of the Third Annual LaRSSA conference: Productive Value from Rehabilitated Land, 8 – 11 September 2015.
- Attend Environmental Programmes' Land Rehabilitation Knowledge Sharing showcase, 23 February 2017, Dept Environmental Affairs, Environment House.
- Attend National stakeholder consultation workshop on Land Degradation Neutrality (LDN) target setting process of the UMCCD, 17 March 2017, Manhattan Hotel, Pretoria.
- Attend Mini MBA workshop presented by the Sustainable Development Network, 23 – 25 May 2017, at Rosebank Union Church, Sandton.
- Present project at the Mine Water Coordinating Body Workshop at Exxaro hear office, Pretoria Gauteng, 18 May 2018

FARMERS/FIELD DAYS

- Attend Farmer's day at Ermelo, Nooitgedacht, 19-20 June 1989.
- Attend Farmer's day at Adelaide, 15-18 August 1989.
- Attend Farmer's day, SANSOR: Symposium on self-sown rye grass, under sowing maize with ryegrass and over sowing kikuyu with ryegrass, 2 May 1990.
- Attend Farmer's day Kokstad, 9-11 July 1990.
- Attend Prestige farmer's day Döhne, 25-26 July 1990.
- Attend Farmer's day at J.C. Steyn Correctional service farm, Kirkwood, 28-30 August 1990.
- Give a lecture on the reproductive strategies of *Portulacaria afra* at a Valley bushveld prestige farmer's day at J.C. Steyn Correctional Service farm, Kirkwood, 9-10 April 1991.
- Attend the Prestige farmer's day: Does it pay to burn bushveld ?, at Hoedspruit Airforce base, Hoedspruit, 2 July 1992.
- Attend a farmer's day in Kangwane, 25-26 March 1993.
- Attend NAMPO 2017

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PUBLICATIONS, PAPERS , POSTERS, REPORTS and Other

Dissertation

DE FREY¹ H M. 'n Biologiese ondersoek van *Tylosema esculentum*. 1990, MSc. Dissertation, Dept. Botany, University of Pretoria, RSA.

Thesis

VENTER H M. A Bloat-risk classification method for pasture legumes. 1998, PhD Thesis, Dept. Botany, University of Pretoria, RSA.

Publications

DE FREY HELENA M, L A COETZER & P J ROBBERTSE. 1992. A unique anther-mucilage in the reproductive biology of *Tylosema esculentum*. Sex Plant Reprod 5:298-303.

VENTER H M, M M WOLFSON & P AVENANT. 1993. A preliminary study of sexual reproduction in *Portulacaria afra*. Afr J Range For Sci 10(1):63-65.

VENTER H M & L A COETZER. 1992. Aspects of ecology, phenology and reproduction in *Tylosema esculentum*. Proceedings of the 3rd Symposium on Science and Technology, vol 3B:181.

VENTER H M & M M WOLFSON. 1992. Reproductive biology of *Portulacaria afra*: Morphology and fruit production. Proceedings of the 3rd Symposium on Science and Technology, vol 3B:158.

VENTER H M. 1994. Difficulties with cross pollinating 5 cowpea lines. In Proceedings: XIVth AETFAT congress, 22-27 August 1994, WICC-IAC, Wageningen, The Netherlands, 656-660.

MNG'OMBA SA, DU TOIT ES, AKINNIFESI FK & VENTER HM. 2007. Repeated exposure of jacket plum (*Pappea capensis*) micro-cuttings to indole-3-butyric acid (IBA) improved in vitro rooting capacity. *South African Journal of Botany*, 73: 230 - 235.

MNG'OMBA SA, DU TOIT ES, AKINNIFESI FK & VENTER HM, 2007. Histological evaluation of early graft compatibility in *Uapaca kirkiana* Müell Arg. scion/stock combinations. *HortScience* 42 (3): 1 - 5.

MNG'OMBA SA, DU TOIT ES, AKINNIFESI FK & VENTER HM, 2007. Effective pre-conditioning methods for in vitro propagation of *Uapaca kirkiana* Müell Arg. Tree species. *African Journal of Biotechnology* 6(14):

MNG'OMBA SA, DU TOIT ES, AKINNIFESI FK, & VENTER HM, 2007. *In vitro* propagation of *Uapaca kirkiana* tree species using mature plant materials. Accepted: African Journal of Biotechnology.

JACA T, KGANYE MA & VENTER HM. 2010. Emerging invasive alien plant survey for prioritisation in Gauteng protected areas, South Africa. *SA Journal of Botany* 76 (2): 410-411.

¹ De Frey is the maiden name of HM Venter

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KGANYE MA, JACA T & VENTER HM. 2010. Identification and prioritising invasive alien plants hot spot areas in Gauteng. *SA Journal of Botany*. 76 (2): 411-412.

JACA T & VENTER HM. 2012. Invasiveness of *Opuntia salmian* – Experimental study on its vegetative and sexual propagation. *SA Journal of Botany* 79: 190-191.

JACA T & VENTER HM. 2013. Survey of invasive alien plants in urban municipal reserves, Gauteng Province, South Africa. *SA Journal of Botany* 86: 159 – 160.

Conference Papers

DE FREY H M, L A COETZER & P J ROBBERTSE. Reproduction biology of *Tylosema esculentum*: The anthers. 17th Annual SAAB congress, 15-18 January 1991, Pietermaritzburg.

VENTER H M & L A COETZER. Aspects of ecology, phenology and reproduction in *Tylosema esculentum*. 3rd Symposium on Science and Technology, 6-8 October 1992, Harare, Zimbabwe.

VENTER H M & M M WOLFSON. Reproductive biology of *Portulacaria afra*: Morphology and fruit production. 3rd Symposium on Science and Technology, 6-8 October 1992, Harare, Zimbabwe.

VENTER H M & P AVENANT. 1997. A critical discussion of the anatomical and biochemical parameters to screen legume species for bloat causing characteristics. In: Proceedings of the Grassland society of South Africa, Congress 32, 13-16 January 1997, University of Port Elizabeth, SA.

Venter H.M. 2006. Wheelie Green: The development of a mobile unit to produce rooted cuttings of *Eucalyptus* tree species. Paper presented at the 9th Annual Conference IPPS Southern African Potential Region. 15 - 17 March 2006, Brainline Rose Hall, Montana, Pretoria, South Africa.

MNG'OMBA SA, DU TOIT ES, AKINNIFESI FK, & VENTER HM, 2006. Commercial potential of *Ximenia caffra* (Large Sour Plum) tree species: Morphological fruit characterisation and propagation. A paper presented at the Southern Society for Horticultural Sciences (SASH) congress held at Stellenbosch, South Africa. 29 - 30 May.

MNG'OMBA SA, DU TOIT ES, AKINNIFESI FK, & VENTER HM, 2007. Plant regeneration through somatic embryogenesis of jacket plum (*Pappea capensis*) tree species. A paper presented at the South African Society of Crop Production/Soil Science Society of South Africa/Southern African Society for Horticultural Sciences combined congress. Badplass, South Africa. 22 - 25 January.

MNG'OMBA SA, DU TOIT ES, AKINNIFESI FK, & VENTER, HM, 2007. Detection of graft incompatibility in *Uapaca kirkiana* fruit trees using phenol analyses. A paper presented at the South African Society of Crop Production/Soil Science Society of South Africa/Southern African Society for Horticultural Sciences combined congress. Badplass, South Africa, 22 - 25 January.

VENTER H M & SIVLAL A. 2007. Fluorescence Microscopy Study of the Effect of TVP, OSP and AIP Cross Pollination Techniques on Successful Pollen Germination on the Stigma. Paper

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presented at the IUFRO Working group 2.08.03 Improvement and culture of Eucalypts: Eucalypts and diversity - balancing productivity and sustainability conference. ICC Durban, South Africa 22 - 26 October 2007.

VENTER H M, de FREY W H & SNYDERS K. 2019. Planting trees in a mine environment: How can we ensure a better post establishment survival rate. A paper presented at the 7th Annual LaRSSA Conference: Rehabilitation in Practice, 15 – 18 July 2019, Glenburn Lodge, Muldersdrift, Gauteng.

Posters

DE FREY H M & A SMITH. Evaluering en klassifikasie van Bambarra (*Voandzeia subterranea*) lyne met die oog op die keuse van die geskikste lyne vir intensiewe veredelings-program. 24 th annual GSSA congress, 15-20 January 1989, Windhoek, Namibië.

DE FREY H M. Die rol van voortplantingsbiologie in praktykgerigte navorsing. 16'th annual SAAB congress, 17-19 January 1990, Grahamstown.

DE FREY H M. Ken jy jou plant se voortplanting ? Annual research meeting of the Karoo biome, 3-5 October 1990, Elsenburg.

DE FREY H M, L A COETZER & P J ROBBERTSE. *Tylosema esculentum*: Worthy of cultivation ? 13'th AETFAT congress, 4-11 April 1991, Zomba, Malawi.

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VENTER H M, M L SWART, H COETZEE, M M WOLFSON & P AVENANT. Reproductive ecology and utilization of *Portulacaria afra*. 28'th annual GSSA congress, 19-21 January 1993, UOVS, Bloemfontein.

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VENTER HM. 2017. Improving land capability with cover crops and super absorbent hydrogels – A project rationale. Presented at the 5th Annual LaRSSA conference: Resilient landscapes in a changing climate. 1 -4 August 2017. Olifants River Lodge, Mpumalanga.

Books/ Chapters/ Manuals

M. H. HETTASCH, K. A. LUNT, B. T. PIERCE, C. L. SNEDDEN, D. J. STEYN, H. M. VENTER, and S. D. VERRYIN. *Tree Breeding Short Course*, 2004.

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² L Venter is for Lenie Venter the nickname used by Helena M Venter

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VENTER H.M. and DE FREY W. 2010. Report for plant rescue and rehabilitation measures of the B section of Perseus-Hydra 765KV transmission power line. Client report submitted to ESKOM, April 2010.

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DE FREY W, VENTER H.M. AND VAN EEDEN D. 2011. Situational Analysis for Moreleta Spruit and its tributaries: Flora and Fauna component. Client: Department of Water Affairs, November 2011.

VENTER H.M 2012. Options for use of flow cytometry methodology to determine polyploidy in eucalyptus plant samples. Clients: Creation Breeding Innovations cc and Hans Merensky Timber Holdings, February 2012.

VENTER H.M. 2012. Literature review of the probability to enhance Phase Change (juvenile to mature) in tree crops with specific focus on the feasibility there of in subtropical *Eucalyptus* commercial forestry species. Clients: Creation Breeding Innovations cc and Hans Merensky Timber Holdings, September 2012.

VENTER H.M. 2012. Rehabilitation of 175 St Andrews: Report on the Ecological criteria/ indicators for the re-vegetation of the commercial development property located in a riparian zone on the Jukskei River. Client: Mr N Lambrakis, EuroArt Shoes, September 2012.

VENTER H.M. 2013. Rehabilitation of co-disposal site at Mooiplaats colliery: Report on research done to determine the best plant species, plant characteristics and most suitable planting techniques. Client: Coal of Africa, Mooiplaats Colliery, March 2013.

CURRICULUM VITAE

VENTER H.M. 2014. Research report: Observations made during the first trial phase (May to June 2014) in experimental hydroponic unit at CleanAir Nurseries. Client Mr G van der Merwe, Clean Air Nurseries SA. July 2014.

VENTER H.M. 2014. Research report: Crop production potential for five leafy crops produced in a hydroponic unit at CleanAir Nurseries. Client Mr G van der Merwe, Clean Air Nurseries SA. July 2014.

VENTER H.M. 2014. Research report: Observations and Crop production potential of four lettuce varieties: Second trial phase (9 August to 17 September 2014) in experimental hydroponic unit at CleanAir. Client Mr G van der Merwe, Clean Air Nurseries SA. October 2014.

VENTER H.M. 2015. Research report: Nutrient solution requirements at Clean Air Nurseries: Comparison of different commercially purchased hydroponic solutions and crop (lettuce and spinach) specific analysis. Client Mr G van der Merwe, Clean Air Nurseries SA. March 2015.

VENTER H.M. 2015. Propagation nursery infra-structure at Anglo American's Mafube colliery. Client: Anglo American, Mafube Colliery. March 2015.

VENTER H.M. 2015. Anglo Inyosi Coal - Kriel Propagation Nursery: proposed infrastructure and plant species list for propagation. Client: Mr W van Zyl, Anglo Inyosi Kriel Colliery. April 2015.

VENTER HM 2015. Propagation of two indigenous tree species: *Ficus abutiliflora* and *F ingens*. Client: Mr W de Frey, EkoInfo – Silverton Ridge EIA. July 2015.

VENTER H M. 2016. Mafube Colliery: Plant harvesting and nursery. PPRT cc Report for Anglo American, January 2016.

VENTER H M. 2016. Turf management plan for Kriel Golf Course: A baseline study. PPRT cc, Report, April 2016.

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VENTER H M. 2016. Goblershoop Garona 132kv powerline and substation plant species identikit and translocation (rescue & re-location) guideline. Report for EkoInfo cc and Eskom, PPRT cc report, November 2016,

VENTER H M. 2017. Mafube Colliery LifeX Project: Plant translocation (Rescue and Re-location considerations). PPRT cc report, February 2017.

VENTER H M. 2017. Operations Management: Kriel Olive production orchard. Anglo Inyosi Coal,

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Kriel Colliery, Mpumalanga, PPRT cc report, June 2017.

VENTER H M. 2017. Tree screen survey at Mafube LifeX project colliery, Mpumalanga. PPRT cc, Report, November 2017.

VENTER H M. 2018. Mafube Rehabilitation Nursery Report – Activities January 2018 – April 2018, PPRT cc, Report, 3 May 2018.

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VENTER H M. 2018. Mafube Rehabilitation Nursery Report – Activities October 2018 – November 2018, PPRT cc, Report, 27 November 2018.

Venter H M. 2019. Mafube Rehabilitation Nursery Report – Activities January 2019 – February 2019, PPRT cc, Report, 04 March 2019.

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Venter H M. 2019. Results of survey to identify the most suitable area for owl sanctuary project at Mafube Colliery. PPRT cc, Report, 13 June 2019.

Venter H M. 2019. Results of a second survey to identify the most suitable area for owl sanctuary project at Mafube Colliery. PPRT cc, Report, 8 July 2019.

Venter H M. 2019. Mafube Rehabilitation Nursery Report – Activities May 2019 – August 2019, PPRT cc, Report, 29 August 2019.

Venter H M. 2019. Short report: Potential for additional agricultural activities at Farm Driekop, Machadodorp, Mpumalanga . PPRT cc, Report, 22 August 2019.

Venter H M. 2019. Results of a survey of approximately 900 trees at Arnot mine rehabilitation site to determine amelioration needs. PPRT cc, Report, 6 December 2019.

Venter H M. 2020. Mafube Rehabilitation Nursery Report – Activities September to December 2019 and January to March 2020, PPRT cc, Report, 9 March 2020.

Venter H M. 2021. The significant cumulative residual impacts(s) that will require a biodiversity offset for transmission line projects: A Literature Study. PPRT cc, Report D1, February 2021.

Venter H M and de Frey W H. 2021. Baseline information and economic potential for growing bamboo plants on fine residue dams at Voorspoed mine. PPRT cc, Report, 28 September 2021.

Venter H M and de Frey WH. 2021. Evaluation Report – Protocol No: BP 07 Black Mountain Rehabilitation Monitoring. Commissioned by Black Mountain Mining (Pty) Ltd., on behalf of Eco Info & Associates (Pty) Ltd. PPRT cc, Report, December 2021.

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Venter H M. 2021. Evaluation Report – Protocol No: BP 08 Black Mountain Search, Rescue and Translocation. Commissioned by Black Mountain Mining (Pty) Ltd., on behalf of Eco Info & Associates (Pty) Ltd. PPRT cc, Report, 13 December 2021.

Venter H M. 2021. Kwezela Dragline rehabilitation: Revegetation and erosion control: 12 – 16 October 2020 and 2 – 4 November 2020. PPRT cc, Report, 12 July 2021.

De Frey W H, Venter H M & Niemand L. 2022. Biodiversity offset assessment for The 400 kv Ferrum – Garona – Nieuwehoop Transmission line. Commissioned by Eskom, compiled by EkoInfo cc and Associates. January 2022.

Venter H M. 2022. Kwezela dragline rehabilitation: Revegetation and erosion control. Monitoring and Maintenance, 13 – 15 October 2021 and 23 – 24 February 2022. PPRT cc, Report, July 2022.

Venter H M. Implementation plans for land rehabilitation and social development trials at MMG Kinsevere in the DRC: Comestible mushroom trials. PPRT cc, Report, June 2022.

Venter H M. and Gaugris J. 2022. Implementation plans for land rehabilitation and social development trials at MMG Kinsevere in the DRC: Miombo conservation and tree trials. PPRT cc, Report, June 2022.

Venter H M. Implementation plans for land rehabilitation and social development trials at MMG Kinsevere in the DRC: Nursery management and plant propagation. PPRT cc, Report, June 2022.

Venter H M. 2022. Implementation plans for land rehabilitation and social development trials at MMG Kinsevere in the DRC: Rehabilitation trials. PPRT cc, Report, June 2022.

Venter H M, de Frey WH & Rossouw PS. 2022. Transalloys Phase 1: Phytoremediation plan to address concerns around the expansion of the Manganese plume over time. PPRT cc, Report, 3 August 2022.

Venter H M. & De Frey W.H. 2022. Implementation plan for Miombo Conservation Tree Trials at Mutanda Mining SARL in the DRC. PPRT cc, Report, September 2022.

Venter H M. 2022. Implementation plan for comestible mushroom production trials at Mutanda Mining SARL in the DRC. PPRT cc, Report, September 2022.

Venter H M. & de Frey W.H. 2022. Implementation plan for land rehabilitation trials at Mutanda Mining in the DRC. PPRT cc, Report, September 2022.

Other

VENTER H M, JP ROBBERSTE & GLORIA MACUCWA Pollination and pollen viability research strategies for *Eucalyptus spp.* Presentation made at the Tree Breeding Symposium June 2001.

VENTER H M & VERRY N S. SERA: Better trees for Africa, presentation at the SERA Breakfast meeting, June 2003.

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VENTER H M. Reproduction biology in Forestry. Presentation at Seed Orchard Research Workgroup, April 2005

VENTER H M. Seeds For A Better Future 2001 - 2005. Presentation at Technology for Development Workshop July 2005.

VENTER H M. 2006. Artificially Induced Protogeny studies in Tasmania. Presentation made at the Seed Orchard Research Workgroup, March 2006.

VENTER H M. 2014. Letter of recommendation and evaluation concerning current rehabilitation practices at Mapochs strip mine near Roosenekal for Golder and Associates, February 2014.

VENTER HM. 2016. Research proposal: Growth and production evaluation trials for the identification of suitable Papaver cultivars for the commercial production of Thebaine in South Africa. Research and development proposal developed for CAN-SA and Wildlife Pharmaceuticals. February 2016.

VENTER HM & DE FREY WH. 2018. Land Rehabilitation, Phytoremediation and Economical Opportunities, MWCB workshop, May 2018.

INTERNATIONAL CONTACTS

- Visited the The Wageningen Agricultural University, Wageningen, The Netherlands, 29 August 1994.
- Visited the CPRO-DLO, Wageningen, The Netherlands, 30 August 1994.
- Visited Van Der Have Research Institutes at Rilland and VLijmen, The Netherlands, 1-2 September 1994.
- Visited the MacCauly Land Use Research Institute, Aberdeen, UK, 6 September 1994.
- Prof Inga Hedberg, Institute of systematic Botany, Uppsala University, Sweden.
- Visited University of Tasmania CRC, CSIRO in Canberra and State Forests New South Wales in Australia during 3 - 14 November 2003.
- Completed a post doc study tour of 8 weeks at the University of Tasmania, Tasmania, Australia, under leadership of Prof Brad Potts (Ass professor School of Plant Science), October to December 2005.

MEMBERSHIP OF ASSOCIATION/SOCIETY

- Council member of the Land Rehabilitation Society of Southern Africa (LaRSSA) 2017 - current
- Member of the Land Rehabilitation Society of South Africa (LaRSSA) 2013 – current.
- Member of the South African Association of Botanist (SAAB) since 1987 - current.
- Member of the International Plant Propagators Society (IPPS) 2009 – 2015.
- Member of the Botanical Society of South Africa (BotSoc) 2009 – 2012.
- Member of the Grassland Society of Southern Africa 1988-1995.
- Member of the Association for the Taxonomic Study of the Flora of Tropical Africa.

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- Member of the Southern African Institute of Forestry since 2001 – 2007

NETWORKING

- LinkedIn – <https://www.linkedin.com/in/dr-lenie-venter-76852116/>.
- ResearchGate
- Academia
- Zintro.com
- BizConnect
- Facebook pages: <https://www.facebook.com/PPRTechnologies?ref=hl>
- Twitter: <https://twitter.com/HmvPprt>
- Twitter: <https://twitter.com/LenieVegpatch>

EXTRAMURAL ACTIVITIES

- Chosen as vice prefect of the library during Gr12 year.
- Chosen as vice-chairperson of the RGI social club during 1988.
- Chosen as chairperson for the LNR Hiking club for 1992.
- Member of the SONOP cycling club and N TVL Pedal Power Association 1992-1995
- Chosen as treasurer of the SONOP Cycling club for 1992/93.
- Member and Secretary of the Roodeplaat hiking club until 1998.
- Completed the one year Bible overview course at Lynnwood Bible School in Pretoria, 2004.
- Complete one year intensive Bible study course at Lynwood Bible School in Pretoria, 2007
- Officer for Gr R, GR1 Voortrekker kids at Garsvallei Voortrekker Kommando for 2006, 2007.
- Member of the Lux Mundi community church cycling club since 2006 – 2010.
- Chef d'Equipe for Garsfontein Laerskool Equestrian team 2009 – 2012.
- Serve on SANESA Schools Equestrian Gauteng North Committee 2011.
- Member of Pharos EcoForum, Lux Mundi Church 2012 – 2014.
- Council member of LaRssa 2017/18/19/20

HOBBIES

Hiking, Cycling, Bonsai and Vegetable gardening