

# Brief Curriculum Vitae

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## Dr Corrie Swanepoel Agricultural Research Council – Natural Resources and Engineering

*Presentation Topic: Soil Carbon – Enhancing Soil Health and Fertility*



### Academic Information

Potchefstroom University University of Pretoria	B.Sc Earth Science cum laude 1996-1998 B.Inst Agrar Hons Land Use Planning 1999 M.Sc. Soil Science 2004 PhD. Soil Science awarded 19 April 2018
Gent University, Belgium	Exchange programme, Feb '03 – May '03

### Work Experience

Jan 2000 – Dec 2003	Part-time lecturer: Department of Plant Production and Soil Science, University of Pretoria
Jan 2004 – Nov 2005	Traveling and working abroad
Feb 2006 – current	Soil scientist, researcher: ARC-Natural Resources and Engineering
April 2019-current	University of Venda: Associate lecturer

### Areas of expertise

- **Carbon dynamics** (C sequestration, impact of agriculture, C restoration)
- **Soil nutrient dynamics** (nutrient cycling, availability, pot trials)
- **Conservation agriculture** (field trials, nutrient cycling, organic matter)
- **Sustainable agricultural practices** (biochar, ecosystem services)
- **Community engagement** (demonstration trials, training, workshops)
- **Fruit quality control** (monitor insect damage to fruit and nuts)

- **Greenhouse gas emissions** (N<sub>2</sub>O and CO<sub>2</sub> emissions, incubation studies, mineralization, denitrification, greenhouse gas emissions in agriculture, GHG inventory).
- **Soil water** (measurement with neutron water meter, capacitance probes)
- **Nitrogen dynamics** (N mineralization, immobilization, leaching, denitrification and gaseous emissions)
- **Wetlands** (policies on wetlands in agriculture, wetland delineation, wise use of wetlands)
- **Sewage sludge** application to agricultural soil (potential pollution, beneficial use, mineralization, soil remediation)

**Data management** (manage, sort and analyse large data sets)

Summary of output

Peer reviewed papers – 18

Student supervision - 16

Technical reports – 21

Posters presented - 5

Congress presentations - 12