

## **CURRICULUM VITAE**

**Name: Peter E T Turner**

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### **EDUCATION**

**Tertiary: University of Natal (Pietermaritzburg) (1969-1972)**  
**Post graduate : University of Natal, (Durban) (1984-5) -Part time**

### **QUALIFICATIONS:**

- 1. B Sc (Botany major – also included courses in Entomology, Soil science, Biometry, Geology, Chemistry, Zoology, Microbiology, Maths)**
- 2. Post graduate Diploma in Business Management (Univ. of Natal, Durban 1984-5)**

### **WORK RECORD:**

**Dec 1973 – Jan 1974 Soil survey conducted at HL Hall and Sons, Nelspruit SA. This included description and mapping of soils.**

**Jan 1976 - March 1997 South African Sugar Association Experiment Station.**

**Positions held :**  
**1976 - 1981 Agronomist (Herbicides and Weeds)**  
**1982 - 1984 Senior Agronomist (Herbicides and Weeds)**  
**1985 - 1997 Head Agronomy Department**

### **Work activities**

#### **Research into all aspects of weed control in sugarcane including:**

- 1. New product screening and evaluation for weed control and crop tolerance, weed control methods and programming.**
- 2. Education in Sugarcane Agriculture Course - formulation of notes and lecturing on weed control**
- 3. Evaluation of new product Registration applications (For weed control in Sugarcane) as a Service to Government Registration Authorities.**
- 4. Research into General Agronomy aspects of Sugarcane Husbandry including evaluation of fertilizer rates, forms and placement; effects of trash blanketing compared with burning; investigation of trickle/drip irrigation and fertigation; evaluation of treated sewage sludge for cane nutrition; evaluation of nematicide x moisture; evaluation of growth enhancement products.**

5. **Management of Research programmes in the Agronomy Department. (Staff of 4 Professional Researchers and a team of 6 Technical assistants with approximately 100 field trials operational at any one time). Co-ordinating with research team annual research programmes for Growth regulation and ripening, Variety evaluation, Weed control, nutrition field trials and General agronomy research. Also responsible for overseeing Crop modelling section while under Agronomy department.**

#### **Committee positions which have been held**

1. **SASTA (SA Sugar Technologists Association) - Council member (1990-1996)**
2. **SA Sugar Industry Agronomists' Association - Chairman (1985-1996)**
3. **SA Sugar Industry Task team on Hormone Herbicides**
4. **Department of Agriculture and Technical Services committee on Hormone Herbicides**

#### **Conferences and consulting assignments**

1. **Sucoma and Dwangwa sugar estates - Malawi - weed control**
2. **Growth enhancement product investigation – India**
3. **International Society of Sugarcane Technologists - Congress + visit -Brazil / USA - Environmental aspects of crop protection product use, legislation, and monitoring.**
4. **United Kingdom - Crop Protection conference – Brighton**
5. **United Kingdom - Crop Protection symposium**

#### **Research Publications - See appendix for detail**

##### **South African Sugar Technologists Association**

**11 - on herbicides**

**6 - Co author on soil factors such as lime and gypsum**

**1 - on Trickle irrigation**

##### **International Society of Sugarcane Technologists**

**1 on herbicides**

##### **Weed Science Society of SA**

**1 on herbicides**

**1997-2004**

#### **Independent research service provider (Sugarcane Research Services) and consulting.**

**Applied research and product development research carried out on contract basis.**

#### **Contract research :**

1. **Contract research into fertilizer types (12), herbicides (42) soil amendments (4) ripeners (13), alternative crops - Sugar Beet (11).**

2. **Evaluation of Concentrated Molasses Stillage for sustainable use on various soil types in Swaziland. 1999 - 2004**
3. **New crop research - Sugar Beet investigations (1997/8)**

### **Consulting**

1. **Agronomist on a sugar estate in Mozambique (1998/9)**

#### **Aspects investigated:**

**Weed control, Flower control, Insect pests (Chilo sacchariphagus, Heteronychus licas), Variety disposition, Diseases (RSD, smut). Preliminary assessments of : soil salinity, surface water management, irrigation, ripening, drainage. Report and recommendations formulated.**

2. **Ongoing Agronomic advisory service to the same estate in Mozambique.**
3. **Agricultural Technical consultancy to appraise the agricultural plan and yield projections for an estate under rehabilitation in Mozambique. (In conjunction with other consultants)**
4. **Assessment of agricultural impact of flood damage on an estate in Mozambique.**
5. **Participant in Agricultural Technical Reviews of Sugar Estates in Southern Africa**

### **December 2004-2007**

#### **Director, Technical Services, Swaziland Sugar Association**

**Responsible for a team of professionals, consultants and support personnel providing research, training, extension, disease monitoring and cane testing services to the industry. Staff of 11 professionals, 40 supervisory, field and administrative staff and management of 2 consultants.**

**The Swaziland Sugar Industry comprises 3 mills, a few large estates, a number of large growers and an expanding smallholder sector. The total area under cane is approximately 50000 ha.**

### **2007- Present**

**Independent research service provider as Sugarcane Research Services.**

**Currently conducting 5 herbicide, 4 nutrition and 2 nematicide trials in sugarcane. In addition 5 trials to test silicon on Macadamias, Citrus, Coffee, Bananas and Sugarcane. Assistant Pedologist in Soil survey Project in Tanzania.**

## Appendix

### Research publications

#### South African Sugar Technologists' Association Proceedings

Results of three post-emergence herbicide screening trials conducted in 1974 and 1975.  
1977, pg. 36.

Destun, Dual and Velpar, three new herbicides for the sugar industry.  
1978, pg. 146

The efficacy of Roundup for killing sugarcane.  
1980, pg. 140

The effects of post-emergence herbicide treatments on sugarcane in South Africa.  
1981, pg. 99

The sensitivity of some South African sugarcane varieties to herbicides.  
1982, pg. 104

Eptam Super and Sutan Plus for control of *Cyperus rotundus* L. in plant crops of sugarcane.  
1983, pg. 131

The interaction of herbicides and nematicides on plant cane in weak sandy soils.  
1984, pg. 137

Preliminary investigations into the competitive effects and control of *Cyperus rotundus* L. in sugarcane fields.  
1984, pg. 143

Two new pre-emergence grass killers for the South African sugar industry.  
1986, pg. 191

A preliminary report on the effect of soil moisture level on responses to Temik and Curaterr.  
1988, pg. 164

Preliminary studies on weed germination and herbicide efficacy under semi-controlled conditions.  
1988, pg. 154

A trickle irrigation experiment in the South African Sugar Industry.  
1988, pg. 145

The phytotoxic effects of herbicides on sugarcane in South Africa.  
1990, pg. 49

Investigations into the use of sewage sludge as a soil amendment for sugarcane.

1991, pg. 53

Some results of field experiments to test lime and phosphogypsum for aluminium amelioration.

1992, pg. 44

**Co-author**

Interrim evaluation of phosphogypsum as an ameliorant for soil acidity in sugarcane.

1991, pg. 41

Modifying lime requirements for sandy , to sandy clay loam soils in the Natal Midlands.

1993, pg. 49

Soil acidification: occurrence and effects in the SA sugar industry.

1994, pg. 70