

Excellence

for SASRI's Engineering Experts

SASRI's Agricultural Engineering division falls under the Systems Design and Optimisation programme of work. This key focus area aims to design and improve farming systems that account for the economic, social and environmental issues impacting on the sustainability of sugarcane production. At present, the Engineering team consists of two Agricultural Engineers assisted by Prof Peter Lyne (part-time Principal Engineer and UDW lecturer). We are proud to announce that both our engineers have just received PhD's for their outstanding projects at SASRI.



**Dr Ashiel
Jumman**

Ashiel Jumman was awarded a PhD for his thesis entitled "Using Systems Dynamics to explore the poor uptake of irrigation scheduling technologies in a commercial sugarcane community in South Africa", which was supervised by Dr Carel Bezuidenhout and Dr Mark Dent. Ashiel's role at SASRI involves identifying knowledge gaps and research needs in irrigation engineering; and providing expert advice and technical support to unique water related problems in the context of sugarcane production.



**Dr Peter
Tweddle**

Peter Tweddle also received his PhD for his thesis entitled "Estimating traffic induced sugarcane losses for various, loading and infield transport operations in South Africa", which was supervised by Prof Peter Lyne and Dr Gareth Lagerwall. Peter's role at SASRI focuses on mechanisation research with respect to farm machinery and road transport systems, as well as the analysis and costing of these systems.