

CEE SPECIAL SEMINAR

“PHYTOMINING AND HYPERACCUMULATION OF CONSTITUENTS OF POTENTIAL CONCERN AND VALUE THAT DEEM VEGETATION GROWN ON REHABILITATED SOIL OR IRRIGATED WITH MINE WATER UNSAFE FOR USE”**DR. WAYNE TRUTER**

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ABSTRACT

This programme aims to understand the quantity, assimilation rate and pathway of constituents of potential concern (COPC) and value (COPV) from rehabilitated land, spoil, coal waste or waste water, using grass plants through the process of phytomining and hyper-accumulation using an aeroponic system. This programme focuses on the value and safety of all grass grown on rehabilitated land, which is a proposed large scale agricultural land use of pasture based livestock production as a mine closure strategy.

BIOGRAPHY

Dr. Wayne Truter is currently employed by the University of Pretoria as Professor and Research Programme Director of the Forage, Pasture and Land Regeneration Sciences (FPLRS) programme hosted in the Department of Plant and Soil Sciences, in the Faculty of Natural and Agricultural Sciences and the African Forage, Fodder, Feed and Food Quality Reference Laboratory at University of Pretoria (AF4RICA Lab). His main field of specialization is to understand the interrelationships between soil, vegetation, water, livestock and game in the agricultural discipline and the discipline of Land Regeneration of mined and disturbed agricultural land. He has spent 25 years conducting research and evaluating forage, pasture production and rehabilitated land management systems. This is in addition to establishing environmentally acceptable methods of regenerating disturbed areas, by ultimately re-vegetating these areas with selective forages and pastures and other industrial crops to improve the agricultural potential of degraded areas to be utilized for livestock production and game management systems. He is the founding member and first president of the Land Rehabilitation Society of Southern Africa (LaRSSA) as well as the Principal Advisor to the South African House of Traditional Leaders and United Royal Kingship Holdings. Dr. Truter is also a Chairman of the Executive Board of AgriLife Foundation NPC, member of The Ministerial Conservation Advisory Board to the Department of Agriculture and Rural Development, and a Universities South African representative at the Department of Agriculture for the National Agricultural Research Forum (NARF).