

Bio:

Prof. Kebonyethata Dintwe is an Associate Professor in the Department of Environmental Sciences at the University of Botswana, whose research sits at the critical intersection of physical ecology and human-environment systems across sub-Saharan Africa. Combining isotope analysis, remote sensing, GIS, and ecosystem modelling, he investigates how climate change, fire regimes, and land-use decisions shape the carbon dynamics of savanna ecosystems - from the Kalahari to drylands across the continent. His work evaluates soil organic carbon turnover, wildfire patterns, and biogeochemical feedbacks that govern both ecological resilience and pastoral livelihoods. As a co-author of the global State of Wildfires reports, Dr. Dintwe bridges empirical physical science with governance arrangements, institutional structures, and carbon market implementation. Through multi-country research and active engagement in international fire science networks, his interdisciplinary approach demonstrates how integrating physical and social sciences yields academically rigorous, actionable solutions for climate mitigation, sustainable resource management, and community resilience throughout Southern Africa.