

Profile of the President of Grassland Society of Southern Africa (GSSA)

Sikhalazo Dube

Nationality: Zimbabwean (South African Permanent Resident),
 Job title: Senior Researcher
 Date of Birth 7 June 1971

Overview:

Dr Sikhalazo Dube is a Senior Scientist at the Council for Scientific and Industrial Research (CSIR) in Pretoria, South Africa where he is an Ecosystems Modeler in the Ecosystems Processes and Dynamics Research Group. His research, student supervision and policy inputs focus on rangelands ecology: the dialogue between science, resources users and policy formulators, development of decision support tools and mapping of resources in light of a changing world. He is a member and current President of the GSSA. His publications include over 40 articles in scientific journals, proceedings, books and chapters in books. He is an author and co-author of several technical reports. His work has been presented in over 20 papers at local and international conferences.

He has experiences from South Africa; Zimbabwe; Namibia; Queensland, Australia; Texas, USA; Mozambique; Uganda and has travel extensively around the world.

He is a proud husband to Elizabeth Dube and father to Melina and Hope

Education

Ph.D. Rangeland Ecology and Management (2005), Texas A&M University, College Station, M.Phil. Science (1999), BSc (1994), University of Zimbabwe, Harare, Zimbabwe.

Employment Record

2009-present: Council for Scientific and Industrial Research South Africa.

- 2008-2009: Department of Geography, University of Fort Hare, Alice South Africa. (Senior Lecturer - Part-time).
- 2005-2009: Department of Livestock and Pasture Science, University of Fort Hare, Alice, South Africa (Senior Lecturer).
- 2005-2005: Department of Range Ecology and Management Texas A&M University. (Postdoctoral Research Associate).
- 2002-2004: Department of Range Ecology and Management Texas A&M University USA (Teaching Assistant).

Selection of Research Funding obtained

- 2006 Kellogg Foundation
 Management of communal grazing areas of the Eastern Cape: Influence of management strategy, policies and practices. (US\$) 399 950

Research / Consultancy Record (partial)

- 2010-2011 Building sustainable agrarian social ecological systems: an integrative landscape approach: CSIR PG Funding
- 2006-2009 Management of communal grazing areas of the Eastern Cape: Influence of management strategy, policies and practices. Funded by Kellogg Foundation
- 2006-2010 Water Harvesting funded by the WRC:
- 2006-2009 The contribution of municipal commonages to sustainable environmental management as well as the livelihoods of poor people in small towns and settlements in South Africa Funded by SANPAD
- 2006-2009 Restoration of degraded land at the Tsolwane Game Reserve in the Eastern Cape Funded by GMRDC:



- 2007-2009 Bush control funded by the NRF
 2006-2009: Integrated control of *Acacia mearnsii* in the Tsomo valley Funded by GMRDC
 1995-2003 Day K.A., Maclaurin A.R., Dube S., Hlatshwayo A.S. and Trevor C. 2003. Capturing the benefits of seasonal climate forecasts in agricultural management Sub-project 3: Grazing systems in Zimbabwe Final Report submitted to Australian Centre for International Agricultural Research, Project # LWR2/96/215
 2003-2004 User-Oriented Models for Assessing Ecological and Economic Drought Risks on Semi-Arid Rangelands, Texas A&M University and the Consejo Nacional de Ciencia y Tecnología (Conacyt), Mexico

Selected Publications

- B Moyo, **S Dube**, M Lesoli¹ and PJ Masika. 2010. Herbaceous biomass, species composition and soil properties of key grazing patches in coastal forest thornveld, sweet and sour veld of the Eastern Cape Province, South Africa. *African Journal of Range & Forage Science* 27(3): 151-162
 MS Lesoli, **S Dube**, AO Fatunbi and B Moyo 2010. Physicochemical characteristics of communal rangeland soils along two defined toposequences in the Eastern Cape Province South Africa. *African Journal of Range & Forage Science* 27(2): 89-94
 HPM Moyo and **S. Dube** 2010. The effects of *Acacia mearnsii* removal on water table fluctuations in the Tsomo valley Eastern Cape Province of South Africa. *Grassroots* 10(2): 22-29

- T. Tshabalala, **S. Dube** and P. Lent. 2010. Seasonal variation in forages utilised by the African buffalo (*Syncerus caffer*) in the succulent thicket of South Africa. *African Journal of Ecology* 48: 438–445
- S. Dube**, A.O. Fatunbi and M. S. Lesoli. 2009. The Efficacy and Safety of Bromacil Based Herbicide for the Control of the Invasive Bush Species in South African Rangelands. *African Journal of Biotechnology* 8 (9):1776–1781
- B. Moyo, P.J. Masika, **S. Dube** and V. Maphosa. 2009. An in-vivo study of the efficacy and safety of ethno-veterinary remedies used to control cattle ticks by rural farmers in the Eastern Cape province of South Africa. *Tropical Animal Health Production* 41:1569-1576
- T. Ndlovu, M. Chimonyo, A.I. Okoh, V Muchenje, K. Dzama, **S. Dube**, J. Raats. 2009 .A comparison of nutritionally-related blood metabolites among Nguni, Bonsmara and Angus steers raised on sweetveld. *The Veterinary Journal* 179(2): 273-281
- S. Dube**, B Moyo, M Lesoli and PJ Masika. 2008. The management of communal grazing areas of the Eastern Cape Province of South Africa: people, vegetation, and policy interactions. *Multifunctional Grasslands in a Changing World* volume 2/Edited by Organizing Committee of the IGC/IRC Congress. Guangdong People's publishing House, China.
- B. Moyo, **S. Dube**, M. Lesoli and P.J. Masika. 2008. Communal area grazing strategies: institutions and traditional practices. *African Journal of Range and Forage Science* 25(2): 47-54
- Fatunbi A.O. and **S. Dube**. 2008. The influence of Physical Landscape and Soil Properties on the Threshold of Rangeland Degradation. *Grassroots* 8(1): 15-21
- Fatunbi Abiodun Oluwole and **Dube Sikkhalazo**. 2008. Land degradation evaluation in a game reserve in Eastern Cape of South Africa: soil properties and vegetation cover. *Scientific Research and Essay* 3(3): 111-119
- Fatunbi Abiodun Oluwole, Johan Mackson Sambo and **Dube Sikkhalazo**. 2008. Long term effects of differing burning frequencies on the dry savannah grassland in South Africa. *African Journal of Agricultural Research* 3(2): 147-153
- Teague, W.R., W.E. Grant, U.P. Kreuter, H. Diaz-Solis, **S. Dube**, M.M. Kothmann, W.E. Pinchak, R.J. Ansley. 2007. An ecological economic simulation model for assessing fire and grazing management effects on mesquite rangelands in Texas. *Ecological Economics* 64: 612-625
- S. Dube**, O. Mukulu, H. Iyambo-Mavetera and B. Masunda 2003. Forage production in northern Namibia's grazing areas: How valid is the tragedy of the commons paradigm? A case of three communities. *African Journal of Range & Forage Science* 20(2):199
- S. Dube**, C. Salinas and O. Mukulu. 2001. The value of tress as fodder for livestock in Northern Namibia. *Proceedings of the International Symposium on Silvopastoral Systems and 2nd Congress on Agroforestry and Livestock Production in Latin America, San Jose, Costa Rica.* <http://www.fao.org/WAIRDOCS/LEAD/X6109E/x6109e0a.htm>
- S. Dube** and VEE Gwarazimba. 2000. Effects of selective defoliation and height of defoliation on tiller dynamics and herbage yield of *Themeda triandra* in a semi-arid rangeland in Zimbabwe. *African Journal of Range and Forage Science* 17(1/3): 52-59
- S. Dube** and F. Kalua. 1998. Continuous vs. 5-paddock rotational grazing, at heavy stocking rate, in semi-arid communal rangelands in Southern Africa: A synthesis of knowledge. In: de Bruyn TD & Scogings PF (Eds.) *Proceedings of a symposium on policy-making for the sustainable use of Southern African Communal Rangelands.* 📄