

CURRICULUM VITAE

NAME: Roy Allen LUBKE
ORGANISATION: Department of Botany, Rhodes University, South Africa

QUALIFICATIONS:

Botany & Zoology - B.Sc (Hons) Rhodes University
Science Education - M.Sc - Keele University (U.K.)
Quantitative Plant Taxonomy - Ph.D. University of Western Ontario (Canada)

OTHER PROFESSIONAL QUALIFICATIONS:

1968 - Member of Institute of Biology
1970 - Member of South African Association of Botanists
1980 - Member of the South African Institute of Ecologists
1983 - Registered with the S.A. Council of Natural Scientists

AREAS OF EXPERTISE:

Plant taxonomy and ecology, specialising in:

- biodiversity and floristics of the Eastern Cape
- coastal ecology - management and ecology of coastal dunes and estuaries.
- reclamation and stabilisation of mine dumps, coastal drift sands and river banks.
- subtropical thicket and savanna vegetation.
- conservation of endangered plant species.
- production of text books on biological education and conservation.

ASSOCIATION AND SOCIETIES:

South African Association for Advancement of Science (since 1962)
Canadian Botanical Association (1965 - 1968)
International Association of Plant Taxonomy (since 1966)
Association for the Taxonomic Study of the Flora of Tropical Africa (since 1970)
Society of Systematic Zoology (1966 - 1978)
Grassland Society of Southern Africa (1976 - 1978)
Botanical Society of Southern Africa (since 1975)
European Union for Coastal Conservation (since 1991)
Society for Restoration Ecology (since 2000)
International Association of Vegetation Science (since 1996)

PROFESSIONAL EXPERIENCE:

1964 - 1968 : University of Western Ontario - research and tutorial assistant
1970 - 1974 : University of Witwatersrand - Lecturer
1975 - 1999 : Rhodes University - Lecturer and Associate Professor (1984)
2000 - 2002 : Head of Department of Botany, Rhodes University.
2003- present: Emeritus Associate Professor, Department of Botany, Rhodes University.

CONSULTING EXPERIENCE:

Environmental consulting under the name of Coastal and Environmental Services (formed in 1989 with Dr Ted Avis and Mr Peter Jackson).

Numerous consultancy reports produced within the field of expertise indicated above.

Specialist expertise in consulting:

- Coastal planning and EIA's.
- Environmental management and conservation.
- Plant ecology and plant biodiversity specialist studies.
- Dune ecology and dune stabilisation and management.
- Endangered plant surveys and sensitivity analysis.
- Restoration ecology and rehabilitation of disturbed landscapes.
- Alien eradication and subsequent rehabilitation of disturbed areas.

CURRENT RESEARCH ACTIVITIES:

Ecological coastal research on dune systems and autecology of dune plants.
Management of dune and coastal systems.
Grassland, savanna and thicket plant community studies, especially with respect to endangered species.
Rehabilitation of degraded landscapes, especially after mining.

BOOK PUBLICATIONS

Field Guide to Eastern and Southern Cape Coasts
Standard 9 Biology Textbook
South Africa's Natural Heritage (Chapter on the coastline and thicket).
Vegetation of South Africa (Chapter on the coastal region).

SYNOPSIS:

Over the last 30 years Professor Roy Lubke has been involved with the study and research of coastal dune systems in the Cape, specialising in stabilisation and rehabilitation of dune systems. He has also worked in the Western Cape and Kwa-Zulu Natal and thus has a fuller understanding of South African coastal systems. He has also worked on coastal systems in Mozambique, Kenya and has consulting experience in Malawi and Angola. Numerous PhD, MSc and BSc (Honours) students have completed their studies under the supervision of Professor Lubke. Professor Lubke has had extensive experience in CSIR funded projects and FRD, and NRF national programmes in South Africa. More recently he has obtained funding from EU - ecosystem projects and co-operated with colleagues in the UK, The Netherlands and Botswana on potential invasive grass species on dune systems.

SOME RECENT PUBLICATIONS:

- Lubke, R.A. and Avis, A.M. 1988. Succession on the coastal dunes and dune slacks at the Kleinemonde, Eastern Cape, South Africa. *Mongr. Syst. Bot. Missouri. Bot. Gard.* 25: 599-622.
- Lubke, R.A., Hertling, U.M., Avis, A.M. 1995. Is *Ammophila arenaria* (L.) Link (Marram Grass) a threat to the conservation of South African dunefields? *Journal of Coastal Conservation*. 1: 103-108.
- Lubke, R.A., Avis, A.M., Steinke, T.D. & Bowker, C.B.(1997). Coastal Vegetation. In: Cowling, R.M. & D. Richardson (Eds.) *Vegetation of South Africa*. Cambridge University Press, Cape Town.
- Clarke, A., Lubke, R. and van Stormbroek, 1995. *Successful Biology 8*. Oxford University Press, Cape Town. 192 pp.
- Lubke R.A. Avis, A.M., 1998. A Review of the Concepts and application of Rehabilitation Following Heavy Dune Mining. *Marine Pollution Bulletin*, 37: 546-557.
- Hertling, U.M., Lubke, R.A., 1999. Use of *Ammophila arenaria* for dune stabilisation in South Africa and its current distribution - Perceptions and Problems. *Environmental Management*, 24: 467-482.
- Hertling, U.M., Lubke, R.A., 1999. Indigenous and *Ammophila arenaria* - dominated dune vegetation on the South African Cape coast. *Applied Vegetation Science*, 2: 157-168.
- Hoare, S.A. Victor, J.E., Lubke, R.A., and Mucina L. (2000). Vegetation of the coastal Fynbos and rocky headlands south of George. *Bothalia*, 30: 87-96.
- Hoare, S.A. Victor, J.E., Lubke, R.A., and Mucina L. (2000). Checklist of plant species of the coastal Fynbos and rocky headlands south of George. *Bothalia*, 30: 97-101.
- Hertling, U.M., and Lubke, R.A. (2000). Assessing the potential for biological invasion – the case of *Ammophila arenaria* in South Africa. *South African Journal of Science*, 96: 520-528.
- Lubke, R.A., and Avis, A.M. (2000). 17 Years of change in a dune slack community in the Eastern Cape. *Proceedings IAVS Symposium*, pp35-38. IAVS, *Opulus Press, Uppsala*.
- Lubke, R.A., and Hertling, U.M. (2001). The role of European marram grass in dune stabilization and succession near Cape Agulhas, South Africa. *Journal of Coastal Conservation* 7: 171-182.
- Knevel, I.C., Venema, H.G. And Lubke, R.A.. 2002. The search for indigenous dune stabilizers: Germination requirements of selected South African species. *Journal of Coastal Conservation*. 8: 169-178.

- Lubke, R.A., Hoare, D.B., Victor, J.E. And Ketelaar, R. 2003. The vegetation of the habitat of the Brenton blue butterfly, *Orachrysops niobe* (Trimen), in the Western Cape, South Africa. *South African Journal of Science* 99: 201-206.
- Steinke, T.D., Lubke, R.A. and Ward, C.J. 2003. The distribution of algae epiphytic on pneumatophores of the mangrove, *Avicennia marina*, at different salinities in the Kosi system. *South African Journal of Botany* 69: 546-554.
- Steinke, T.D. and Lubke, R.A. 2003. Arenicolous marine fungi from Southern Africa. *South African Journal of Botany* 69: 540-545.
- Knevel, I.C.; and Lubke, R.A. 2004. Reproductive phenology of *Scaevola plumieri*; a key coloniser of the coastal foredunes of South Africa. *Plant Ecology* 175: 137-145.
- Lubke R.A. 2004. Vegetation Dynamics and Succession on Sand Dunes of the Eastern Coasts of Africa In: Martinez, M.L. and Psuty, N.P. (Eds.) Coastal Dunes; Ecology and Conservation (Ecological Studies; vol. 171) Springer-Verlag, Berlin.
- Martinez, M.L., Psuty, N.P. and Lubke R.A. 2004. A Perspective on Coastal Dunes. In: Martinez, M.L. and Psuty, N.P. (Eds.) Coastal Dunes; Ecology and Conservation (Ecological Studies; vol. 171) Springer-Verlag, Berlin.
- Knevel, I.C., R.A. Lubke And Van Der Putten W.H. 2005. Release from native root herbivores and biotic resistance by soil pathogens in a new habitat both affect the alien *Ammophila arenaria* in South Africa. *Proceedings Dunes & Estuaries*, In press.