







Mainstreaming Environment and Sustainability in African Universities:

Stories of Change

Edited and supported by: Heila Lotz-Sisitka, Gitile Naituli, Amanda Hlengwa, Mike Ward, Ayobami Salami, Akpezi Ogbuigwe, Mahesh Pradhan, Marie Neeser and Sanne Lauriks



Mainstreaming Environment and Sustainability in African Universities:

Stories of Change

Edited and supported by: Heila Lotz-Sisitka, Gitile Naituli, Amanda Hlengwa, Mike Ward, Ayobami Salami, Akpezi Ogbuigwe, Mahesh Pradhan, Marie Neeser and Sanne Lauriks

Published by Rhodes University Environmental Learning Research Centre, Grahamstown

First published 2015

ISBN: 978-0-86810-613-7

Recommended citation:

Lotz-Sisitka H., Hlengwa A., Ward M., Salami A., Ogbuigwe A., Pradhan M., Neeser M., & Lauriks S. (Eds). (2015). Mainstreaming Environment and Sustainability in African Universities: Stories of Change. Grahamstown: Rhodes University Environmental Learning Research Centre.

Acknowledgements

This publication was made possible with support from Sida and NIRAS Natura who supported the International Training Programme (ITP) on Education for Sustainable Development in Higher Education.

Three papers in this volume of 'Stories of Change' were originally published as journal articles in the Southern African Journal of Environmental Education. These have been included here with permission from the Journal Editors. They are republished here because they originated in the Mainstreaming Environment and Sustainability in African Universities programme and the ITP, and thus form an integral part of this collection of 'Stories of Change'. The three republished papers are:

- Chapter 4: Rethinking Forestry and Natural Resources Higher Education in Ethiopia: An Education for Sustainable Development Perspective (Gessesse Dessie & Merfese Tadesse)
- Chapter 13: Education For Sustainable Development: The Case Of Masinde Muliro University
 Of Science And Technology (MMUST) (Patricia Kariaga, Mary Goretti Kariaga & Vitalis
 Ogemah)
- Chapter 15: Sustainability Issues In The Geography Curriculum For An Undergraduate Programme: The Case Of Addis Ababa University, Ethiopia (Aklilu Dalelo)

Contents

Contents	
Stars in the Night	
PART A: Orienting Papers4	
Chapter 1: Introducing the UNEP Mainstreaming Environment and Sustainability in African Universities Partnership Programme (Mahesh Pradhan, Brian M. Waswala-Olewe & Mariam Ayombi)	
Chapter 2: 'Seeding Change': Developing a Change-Oriented Model For Professional Learning And ESD In Higher Education Institutions In Africa (Heila Lotz-Sisitka, Adesuwa Vanessa Agbedahin & Amanda Hlengwa)	
Chapter 3: Development, Use and Significance of the Unit-Based Sustainability Assessment Tool for Universities in Africa and Asia (Muchaiteyi Togo)	
PART B: Whole system and whole institution change processes	
Chapter 4: Rethinking Forestry and Natural Resources Higher Education in Ethiopia: An Education for Sustainable Development Perspective (Gessesse Dessie & Merfese Tadesse)	
Chapter 5: Mainstreaming Environment and Sustainability at the University of Botswana: Change Project Approach (M.J. Ketlhoilwe & Koketso Jeremiah)	
Chapter 6: Implementation Of The MESA Initiative In The University Of Swaziland (Mandla Mlipha)	
Chapter 7: Mainstreaming Education for Sustainable Development in Uganda Martyrs University: A critical analysis of the strategy (Jimmy Spire Ssentongo & Aloysius Byaruhanga)	
Chapter 8: Mainstreaming Environment And Sustainability In Tertiary Education: Some Experiences From MESA in Malawi (Marlene Chikuni, Gibson Mphepho & Sosten Chiotha)	
Chapter 9: Mainstreaming Education For Sustainable Development In Teacher Education At Busitema University, Uganda (Edward Andama & Ujeyo M.S. Suuba)	
Chapter 10: Mainstreaming Education For Sustainable Development In A Nigerian University: A Grass-Root And Pragmatic Approach (Ayobami T. Salami, Babafemi Odunsi & Simisola Odeyinka)	
Chapter 11: Towards Education For Sustainable Development (ESD) Implementation In The Faculty Of Science Of The Alexandria University (Boshra Salem & Ahmed Rashed)	
PART C: Green Campus Initiatives	
Chapter 12: Nelson Mandela Metropolitan University George Campus Student Mobilisation Change Project (Bianca Currie)	
Chapter 13: Education For Sustainable Development: The Case Of Masinde Muliro University Of Science And Technology (MMUST) (Patricia Karjaga, Mary Goretti Karjaga & Vitalis Ogemah)	

Chapter 14: Integrating Sustainable Development In Higher Education In Morocco (Fatima Zahra Touzani)
Part D: Faculty and Curriculum innovations184
Chapter 15: Sustainability Issues In The Geography Curriculum For An Undergraduate Programme: The Case Of Addis Ababa University, Ethiopia <i>(Aklilu Dalelo)</i>
Chapter 16: Incorporating ESD Into The Secondary Teacher Education Curricula At Bahir Dar University Ethiopia (Dereje Taye & Asrat Dereb)
Chapter 17: Integrating ESD Into The Home Economics Programme Of Alexandria University, Egypt (Mona Sharaf Abdelgalil)
Chapter 18: ESD In Early Childhood Education And Educational Management And Leadership Courses In The Faculty Of Education at the University of Botswana (Gabatshwane T. Tsayang & Kabita Bose)
Chapter 19: Integrating ESD Into The Higher Diploma Programme Of Dire Dawa University (Yonas Tadesse & Abeya Degefe)
Chapter 20: Embedding ESD Concepts In The Curriculum Of The University Of Zambia: A Change Project And Beyond (Douty Chibamba & Enock Sakala)235
Chapter 21: Reorienting Teaching Strategies For Pre-Service Science Teachers Using ESD In Mbarara University Of Science And Technology, Uganda (Basil Tibanyendera)
Chapter 22: Introducing ESD In The School Of The Built Environment At The Copperbelt University (Roy Alexander Chileshe & Gibson Chisomo Ngoma)
Chapter 23: Integrating Kaizen Management Principles With ESD In Ethiopian Institute Of Technology-Mekelle, Mekelle University (Weldegebriel Abraja Hagoss & Hadush Berhe Asgedom)
Chapter 24: Driving Activities In ESD to a Higher Level: Experience From The Faculty Of Education At Eduardo Mondlane University, Mozambique (Agular Baquete)
Chapter 25: Towards Integration Of ESD In Teaching And Training Programmes: A Case Study Of The High School Of Technology Of Salé, Morocco (Youssef Lefdaoui & Aberrazak Khohmimidi)
Chapter 26: Language And Literature Courses In Environmental And Sustainability Education: Curriculum Innovation At The University Of Botswana (Gregory H. Kamwendo & Tshiamiso V. Moumakwa)
Chapter 27: Kigali Institute of Education Change Project: An Ongoing Process In ESD Innovation And Transformation Of Rwanda's Education Sector (Gaparayi Gaspard)278

Stars in the Night

- Akpezi Ogbuigwe -

It was Night Time

No one could dispute that.

The report was in

Our global challenges included:

Climate change

Loss of ecosystem services (including rapid coastal ecosystem degradation)

Threats to food security and water

Deforestation

Loss of biodiversity

Land and water degradation

Deterioration of fisheries

Waste management crises

Increasing poverty

Insecurity / wars

The Millennium Development Goals were at risk of not being met...

It seemed the sustainability dream was lost!

That was 2002 in Johannesburg.

The world had gathered again to review the sustainability scorecard and strategise for the future...

No one knew that that gathering was going to be like none other

It was going to give birth to a baby called The Decade of Education for Sustainable Development What a mouthful but what a delightsome child!

Then inconspicuously, stars began to burst out of the night

In all continents you could see the stars in the night

Africa was not left out

The stars burst out in their zillions

From the United Nations office in Narobi

To Southern Africa, East Africa, West Africa, The Horn of Africa, Central Africa, North Africa

You could see the MESA stars decorating the night

Shooting out stars to the global community...

It's now 10 years, the stars are still replicating themselves

Let them shine forth in their host Let them shine brighter and brighter

Let them fill the dark night

For no night remains night when overtaken by stars

Akpezi Ogbuigwe

November 2014

PART A: Orienting Papers

Chapter 1: Introducing the UNEP Mainstreaming Environment and Sustainability in African Universities Partnership Programme

Mahesh Pradhan, Brian M. Waswala-Olewe and Mariam Ayombi

(United Nations Environment Programme)

Abstract

The chapter provides an overview of the Mainstreaming Environment and Sustainability in African Universities Partnership (MESA). The partnership was established to strengthen capacity development and environmental innovation through practical education, training and networking in African universities through Education for Sustainable Development initiatives. The MESA partnership, supported by the United Nations Environment Programme (UNEP) since 2004, was developed via three phases over the period of the UN Decade on Education for Sustainable Development, culminating in this Monograph on 'Stories of Change', and the development of the Africa Environmental Education and Training Action Plan for 2015-2024. MESA universities have contributed to the development of this Action Plan, and also paved the way for the establishment of the Global Universities Partnership for Environment and Sustainability (GUPES), which now has 500 partner universities, including the 90 from the MESA network. This allows MESA universities to be linked into a global universities network focusing on the mainstreaming of environment and sustainability into universities.

Introduction

Africa faces a myriad of challenges that impact negatively on the environment (UNEP, 2002, 2006, 2012a). These challenges include: increased climate change vulnerability; desertification of arid areas; deforestation (massive land clearance for agriculture and fuelwood); rapid urbanisation (particularly in coastal areas and proliferation of informal settlements); decline of biological resources (habitat loss, overharvesting of selected resources, and illegal activities); degradation of coastal and marine habitats (pollution, overharvesting of

预览已结束,完整报告链接和二维码如下:

https://www.yunbaogao.cn/report/index/report?reportId=5 8929

