Accepted Manuscript

Implementing climate change research at universities: Barriers, potential and actions

Walter Leal Filho, Edward A. Morgan, Eric S. Godoy, Ulisses M. Azeiteiro, Paula Bacelar-Nicolau, Lucas Veiga Ávila, Claudia Mac-Lean, Jean Hugé

PII: S0959-6526(17)32095-4

DOI: 10.1016/j.jclepro.2017.09.105

Reference: JCLP 10610

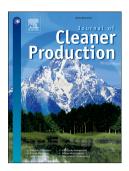
To appear in: Journal of Cleaner Production

Received Date: 12 May 2017

Revised Date: 11 September 2017 Accepted Date: 11 September 2017

Please cite this article as: Leal Filho W, Morgan EA, Godoy ES, Azeiteiro UM, Bacelar-Nicolau P, Veiga Ávila L, Mac-Lean C, Hugé J, Implementing climate change research at universities: Barriers, potential and actions, *Journal of Cleaner Production* (2017), doi: 10.1016/j.jclepro.2017.09.105.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

Implementing Climate Change Research at Universities: Barriers, Potential and Actions

Walter Leal Filho¹, Edward A. Morgan^{2,3}*, Eric S. Godoy⁴, Ulisses M Azeiteiro⁵, Paula Bacelar-Nicolau⁷, Lucas Veiga Ávila⁷, Claudia Mac-Lean⁸, Jean Hugé⁹

Abstract

Many universities around the world have been active centres of climate change research. However, there are a number of barriers to climate change research, stemming both from the nature of the research and the structure of institutions. This paper offers an overview of the barriers which hinder the handling of matters related to climate change at institutions of higher education (IHEs), and reports on an empirical study to investigate these barriers using a global survey of higher education institutions. It concludes by proposing some steps which could be followed with a view to making climate change more present and effective in university research and teaching. These include changing approaches to research, outreach and teaching to better support action on climate change.

(9000 words, including references)

1. Introduction

¹ School of Science and the Environment, Manchester Metropolitan University, Chester Street, Manchester M1 5GD, UK w.leal@mmu.ac.uk

² Cities Research Institute, Griffith University, 170 Kessels Road, Brisbane, Queensland 4111, Australia <u>ed.morgan@griffith.edu.au</u>

³ Climate Change Response Program, Griffith University, Parklands Drive, Southport Queensland 4222, Australia

⁴ Department of Philosophy, Illinois State University, Stevenson Hall 412, Normal, IL NY, 61790, USA esgodoy@ilstu.edu

⁵ Department of Biology & CESAM Centre for Environmental and Marine Studies, University of Aveiro, 3810-193 Aveiro, Portugal <u>ulisses@ua.pt</u>

⁶ Unversidade Aberta, Portugal & Centre for Functional Ecology, Universidade de Coimbra, Portugal <u>pnicolau@uab.pt</u>

⁷ Federal University Of Santa Maria - UFSM, Brazil. <u>admlucasveiga@gmail.com</u>

⁸ Office of Engineering for Sustainable Development, University of Chile, Beauchef 850, Santiago 837048, Chile cmaclean@ing.uchile.cl

⁹ Systems Ecology & Resource Management Unit, Université Libre de Bruxelles. Avenue Franklin Roosevelt 50, 1050 Brussels, Belgium.

¹⁰ Plant Biology & Nature Management Unit, Vrije Universiteit Brussel. Pleinlaan 2, 1050 Brussels, Belgium.

¹¹ KLIMOS-ACROPOLIS Policy Support Platform. Brussels, Belgium Jean.Huge@ulb.ac.be

Download English Version:

https://daneshyari.com/en/article/5479215

Download Persian Version:

https://daneshyari.com/article/5479215

<u>Daneshyari.com</u>