# ACROSS BORDERS

AN OVERVIEW OF ISSUES IN MANAGEMENT & BUSINESS / SCIENCE & TECHNOLOGY / SOCIAL SCIENCE & HUMANITIES 2009-2011

### **PROJECT TEAM**

Dr. Roaimah Hj. Omar Dr. David Loh Er Fu Nor Raihan Abu Bakar Siti Zuraina Gafar@Abd Ghaffar Muhamad Hanapi Khamis Siti Nurshahidah Sah Allam



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Universiti Teknologi MARA
Cawangan Melaka

ISBN 978-967-11354-1-9

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# **PREFACE**

Across Borders is designed for use in knowledge development in various disciplines. It is written to accommodate the interest of academicians and industry. The compilation of research abstracts from different fields provides valuable information to assist the expansion of knowledge and development. It also serves as a reference for Universiti Teknologi MARA (UiTM) Melaka Campus and the Division of Research, Industrial Linkages & Alumni.

The compilation of proceeding abstracts includes 83 research abstracts that are divided into 3 sections according to their respective disciplines; Management and Business, Science and Technology, and Social Science and Humanities.

It is hoped that this book would inspire its readers to undertake further research in the specific fields or disciplines.

# **ACKNOWLEDGEMENT**

The project team of this Across Borders would like to express their deepest appreciation to all the researchers from the various faculties for their participation. Without their on-going contributions the book would not be possible. We are indebted to the Rector of Universiti Teknologi MARA (UiTM) Melaka Campus and the Division of Research, Industrial Linkages & Alumni for mooting the idea of having this book and getting the project started.

We would like to sincerely thank all our friends, colleagues, and acquaintances for their roles, direct and indirect contributions and invaluable support in the compilation of the 83 proceeding abstracts.

### MANAGEMENT BUSINESS

# AIR POLLUTANTS IN MALAYSIA: THE CONTRIBUTION OF ECONOMIC GROWTH TOWARDS IT

Halimahton Borhan Elsadig Musa Ahmed

#### **ABSTRACT**

It is possible to distinguish three main channels whereby income growth affects the quality of the environment as first suggested by Grossman (1995). They are firstly, a scale effect, secondly a composition effect and thirdly, technological progress. A recent research criticism by Cole (2003 and 2004) of the environmental Kuznets curve hypothesis is based on the occurrence of foreign direct investment and international trade. In the previous EKC literature, EKC is always estimated in the form of a single equation. However, since both income and environmental quality are endogenous variables in which they impact upon each other, therefore the estimation of single equation relationships where simultaneity exists will produce biased and inconsistent estimates. The general objective of this study is to measure the relationship between economic growth and different indicators of air pollution in Malaysia. Air pollution indicators were assessed on a number of measures: Carbon Monoxide (CO), Sulphur Dioxide (SO<sub>2</sub>), Nitrogen Dioxide (NO<sub>2</sub>), Ozone (O<sub>2</sub>) and Particulate Matter (PM, a). The income level per capita GDP (Gross Domestic Product) were measured from the year 1996 to 2006 quarterly. This study contributes to the available literature by Hung et al (2004) and Shen (2006) by adopting the model and extending it to include variables such as the number of motor vehicles. foreign direct investment and government spending. Being different from the study by Hung et al (2004) and Shen (2006), this study estimates population density as an endogenous variable. It formulates a four-equation simultaneous model for empirical research. It is testing for exogeneity using the Hausman test and estimates the simultaneity model using the two-stages least squares method. The EKC hypothesis is supported in the cases of SO, and PM, and there are several differences found between single polynomial equation estimators commonly used in EKC literatures and simultaneous equation estimators.

### **KEYWORDS**

Air Pollutants, Economic Growth, Malaysia, Environmental Kuznets Curve

The paper was presented at the Conference on Scientific and Social Research 2008/2009 organized by UiTM Shah Alam from 14-15 March in Melaka.