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# TEEC2013

**International Technology, Education and  
Environment Conference**

August 12-15, 2013

Michael Okpara University of Agriculture, Umudike-Nigeria

# BOOK OF PROCEEDINGS

*Edited by*  
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## Forward

I have the pleasure to furnish you herewith the Proceedings which herein contains a collection of the papers presented at International Technology, Education and Environment Conference (TEEC2013) organized by African Society for Scientific Research and African Association for Teaching and Learning in cooperation with several partners and collaborating journals. The conference was held August 12-15, 2013 at Michael Okpara University of Agriculture, Umudike, Nigeria.

The TEEC series is an academic activity for interested scholars, educators, scientists, technologists, environmentalists, policy makers, corporate bodies and graduate students. The aim of the conference is to diffuse research findings and create a conducive environment for scholars to debate and exchange ideas that lead to development in social, political, technological and economic spheres of the global community.

Following the call for papers by the International Scientific Commission, papers we received more than 80 proposals from 15 different countries from all continents. As a commitment to the vision and mission of academic excellence and integrity, each paper was anonymously reviewed by two members of the editorial sub-committee of the Commission. This book of proceedings contains a selection of the papers presented at the conference.

We wish to express our sincere thanks to the Michael Okpara University of Agriculture, Umudike, Nigeria for providing the venue and facilities for the conference and for being committed to towards ensuring the success of the conference. We thank the management and staff of our institutional partners for their cooperation and support for the project. We express our profound gratitude to all and sundry especially our Special Guests, delegates, reviewers, the media, the Nigerian foreign missions and all the cooperating partners for their contributions in promoting this noble academic event.

Please read on!!!

**Jacinta A. Opara, PhD**

*Co-Chair, International Technology, Education and Environment Conference (TEEC2013)*  
*Visiting Associate Professor, Universidad Azteca, Chalco-Mexico*

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