

Table of Content

	Page
Title Page	i
Editorial Board	ii
Chairpersons of Technical Sessions	iii
Citation	iv
Group Photograph of Conference Participants	v
Opening Address by the Vice- Chancellor, Prof. Oluwafemi Olaiya Balogun	vi

VOLUME 1

CLIMATE CHANGE, HUMAN RESPONSES AND ADAPTATION	1
Impact of Climate Change on Groundwater Resources: An Example from Cross River State, Southeastern Nigeria Edet A., Ukpong A. J. and Ekwere A. S.	2
Indigenous Efforts by African Farmers in Ensuring Sustainability in Agricultural Productivity in the Face of Changing Climate Sadiku N. A. and Sadiku I. B. S.	22
Modelling Arable Crop Farmers' Decisions on Climate Change and Adaptation Strategies: A Multinomial Logit Analysis in Ogun State Ibrahim S. B., Afolami C. A., Ayinde I. A. and Adeofun C. O.	33
ENVIRONMENTAL POLICY, LEGISLATION AND IMPLEMENTATION	53
Environmental Sustainability Management Systems and Regulations Mustapha J. and Lindh M.	54
Sustainability Reporting In the Nigerian Oil and Gas Sector Asaolu T. O., Agboola A. A., Ayoola T. J. and Salawu M. K.	61

ENVIRONMENTAL, SOCIO-ECONOMIC AND HEALTH IMPACT ASSESSMENT	85
Assessment of the Economic Value of Selected Wetlands in Southwest, Nigeria Odine A. T., Shittu A. M., Ayinde I. A. and Olubanjo O. O.	86
Public Willingness to Pay for Ecosystem Services Functions of a Peri-urban Forest in Abeokuta, Ogun State, Nigeria Adekunle M. F and Agbaje B. M.	101
Environmental Sensitivity Indexing of Lagos Shorelines Adeofun C. O. and Oyedepo J. A.	112
Role of Women in Fisheries in Coastal Wetland Areas of Ogun State, Southwest Nigeria Odulate D. O., George F. O. A. and Idowu A. A.	123
Contribution of Non-Wood Forest Products (NWFP) to Livelihood Generation Products in Eriti Community Forest Wetlands, Ogun State, Nigeria Adekunle M. F., Oloruntope A., Ajibola A. A. and Agbaje B. M.	132
GIS-Supported Survey of Low-Land Rain Forests in South-Western Nigeria Ogunsesan D., Oyedepo J., Oates J., Adeofun C. O., Ikemeh R. and Bergl R.	141
Perceived Benefits of Selected Wetlands in South-West Nigeria Olawaju T. O., Shittu A. M., Olubanjo O. O. and Dipeolu A. O.	155
Rapid Epidemiological Mapping of Cholera in Parts of Abeokuta Metropolis: A GIS-Supported Post-Epidemic Assessment Oyedepo J. A., Shittu O. B., Popoola T. O. S., Adeofun C. O. and Ogunshola, E. O.	167
FLOOD AND EROSION PROBLEMS AND MITIGATION	177
Effect of Moisture Variation on the Strength Characteristics of Laterite: A Case Study of Abeokuta, Ogun State, Nigeria Alayaki F. M. and Bajomo O. S.	178
Mitigating the Effects of Floods and Erosion in the Niger South Catchment Area through Integrated Flood Management (IFM) Aletan A., Martins O. and Idowu O. A.	185
PHYSICAL DEVELOPMENT AND BIODIVERSITY	198
Impact of Human Urine Contamination on Soil Biota Dedeke G. A., Ademolu K. A., Ogunnaike O., Fadeyi M. O. and Otti C. N.	199

Spatio-temporal Analysis of Wetland Ecology of Urban Ijebu Ode Bakare H. O., Oke M. O., Bankole M. O. and Komolafe B. O.	207
Strategic Planning Methodology and Guidance for Establishing Effective Floodplain Management Programmes: Case Study Oyan Dam floodplain Fagoyinbo B. and Musa N.	216
Need for Geo-scientific Maps for a Reasonable Planning and Physical Development of Coastal and Wetland Areas of Nigeria Meshida E. A. and Ayolabi E. A.	236
Nutrient Inputs via Stem Flow in a Rubber - <i>Hevea brasiliensis</i> Wild Muell-Arg. <i>Euphorbiaecae</i> - Agro-ecosystem Plantation at Ikenne, Southwest, Nigeria Adedeji O. H. and Gbadegesin A. S.	243
Application of Remote Sensing and Geographic Information System for selecting Dumpsites and Transport Routes in Abeokuta, Nigeria Adeofun C. O., Achi H. A., Ufoegbune G. C., Gbadebo A. M. and Oyedepo J. A.	264
Conference Communiqué	279
Acknowledgement	280
List of Conference Participants	281

VOLUME 2

LAND DEGRADATION, WATER AND AIR POLLUTION	289
Soil Physical Properties and Hydraulic Conductivity of Compacted Sandy Clay Loam Planted with Maize <i>ZEA MAYS</i> Adesigbin A. J. and Fasinmirin J. T.	290
Sustainable Management of Mangrove Coastal Environments in the Niger Delta Region of Nigeria: Role of Remote Sensing and GIS Adedeji O. H., Ibeh L. and Oyebanji F. F.	307
A Comparative Study of Portland Cement, Hydrated Lime and <u>Lateralite</u> as Stabilizing Agents of Quaternary Coastal Plain Sands North of Lagos Metropolis as Road Construction Material Meshida E. A., Alayaki F. M. and Akanbi E. O.	325
Aspects of the Hydrology of the Western Niger Delta Wetlands: Groundwater Conditions in the Neogene (recent) Deposits of the Ndokwa Area	334

Akpoborie I. A.

Seasonal Mean Levels of Heavy Metals in Water and Associated Sediments
from Ajawere River in Oke-Osun Farm Settlement, Osogbo, Nigeria 350
Oyekunle J. A. O., Ogunfowokan A. O., Akanni M. S. and Torto N.

Soil Moisture Distribution Pattern and Yield of Jute Mallow (*corchorus olitorius*)
under Three Different Soil Fertility Management 373
Ogunrinde A. T. and Fasinmirin J. T.

Spatial Variation of Acid Rain and its Ecological Effect in Nigeria 382
Efe S. I.

Hydraulic Conductivity and Infiltration of Soils of Tropical Rain Forest
Climate of Nigeria 397
Olorunfemi I. E. and Fasinmirin J. T.

Interpretation of observed Surface Ponds Water Quality using Principal
Components Analysis and Cluster Analysis 414
Ayeni A. O.

Multivariate Statistical Analysis for the Assessment of Hydrogeochemistry
of Groundwater in Agbabu Area, S.W. Nigeria 425
Ogunribido T. H. T. and Kehinde – Philips O. O.

Impact of Urbanization on Wetland Degradation: A Case Study of Eleyele
Wetland, Ibadan, South West, Nigeria 435
Tijani M. N., Olaleye A. O. and Olubanjo O. O.

WASTE MANAGEMENT AND HEALTH IMPLICATIONS 458

Detection of Faecal Coliforms in Biofilms of Water Tankers in Odongunyan,
Ikorodu - A Peri-Urban Lagos Settlement 459
Olaleye O. N.

Exploiting the Potentials of Inland Valleys of Nigeria for Poverty Alleviation 465
Adigbo S.O., Wakatsuki T., Odedina J. N., Fabunmi T. O. and Adigbo V. B.

Aflatoxins in Smoked-dried Fish sold in Abeokuta, Ogun State, South-west Nigeria 479
Akinyemi A. A., Adejola A. Q., Obasa S. O. and Ezeri G. N. O.

Earthworm as Bioindicator of Heavy Metal Pollution around Lafarge, WAPCO
Cement Factory, Ewekoro, Nigeria 489
Olayinka O. T., Idowu A. B., Dedeke G. A., Akinloye O. A., Ademolu K. O., Bamgbola A. A.

Tertiary Hospital Wastewater Treatment using Reed Bed Technology planted with <i>Vetiveria nigriflora</i> benth and <i>Phragmites karka</i> retz Badejo A. A., Coker A. O. and Sridhar M. K. C.	497
Assessment of Impact and Safety Status of Remediation of Lead Contaminated Soil using Excavation Method: A Case Study of Olodo, Ibadan, Southwestern Nigeria Oyediran I. A. and Aladejana J. A.	504
Distribution and Effects of Some Heavy Metals in Selected Organs and Tissues of Albino Rats Exposed to Vehicular Exhaust Fumes Ajayi O. A., Idowu A. B., Eromosele C. O., Dedeke G. A. and Ademolu K. O.	519
Waste Disposal Site Selection using Remote Sensing and GIS: A Study of Akure and Its Environs, Southwest-Nigeria Anifowose Y. B., Omole K. E. and Akingbade O.	527
Evaluation of Sustainable Water Demand in a Coastal Environment using WEAP Model Ojekunle Z. O., Ojo K. O., Idowu O. A., Martins O., Oluwasanya G. O. and Ojekunle V.O.	535
Communique	548
Acknowledgement	549
List of Conference Participants	550