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Unterstützt von / Supported by

Alexander von Humboldt
Stiftung / Foundation

HUMBOLDT-KOLLEG

OGBOMOSO 2015

Theme:

*Harvesting Research Outcomes:
A Practical Plan to Confirm Achievement
of the Millennium Development Goals*

January 13 - 16, 2015

Senate Chamber,
Ladokpe Akintola University of Technology,
Ogbomoso, Nigeria.

Programme & Abstracts

Part II

Guidelines for Author

PROGRAMME OF ACTIVITIES

Date and Themes	Time	Activity
Pre - Conference Day : ARRIVAL: January 12, 2015		
	4.00 pm	Arrival of guests
	6.30 pm	Dinner
DAY 1: January 13, 2015		
Opening Ceremony	8.00 am.	Arrival and registration of participants.
	11.00 am	Introduction of Guests. University PRO
	11.10 am	Welcome address by the Vice-Chancellor Prof Dr A.S. Gbadegesin
	11.20 am	Short Address by the Convener Prof. Dr S.O. Jekayinfa
	11.30 am	Short speech on AvH Foundation sponsorship programmes: Prof. Dr Adebayo
	12.00 noon	Keynote Lecture: Prof Mrs Adetanwa Odebiyi Harvesting Research Outcomes: A Practical Plan to Confirm Achievement of the Millennium Development Goals
	12.40 pm	Group photograph
	12.55 pm	Coffee break
1st Plenary/Technical Session		
Chairman: Prof Dr. Mrs. B.I.O. Ade-Omowaye Rapporteur: Dr. O.O. Ojo		
Invited Paper I		Invited Paper I: Prof. Dr. A.A. Asa Universal primary education: gender equality and women empowerment
Technical Papers on the sub-theme: <i>Universal primary education: gender equality and women empowerment</i> Venue: Senate Chamber	1.05 pm	Papers on the sub-theme: <i>Universal primary education: gender equality and women empowerment</i>
	1.15 pm	A Comparative Analysis Of Gender Equality In Enrolment And Completion Of Primary School Girls In Nigeria And Usa Aburime, Aminat Ozohu, Jekayinfa, Oyeyemi and Olawuyi Bolanle Olabisi
	1.25 pm	An Edutainment Cognitive Learning System: A Panacea For Poor Assimilation Rate Of Pupils Opeyemi B. Adeleke, Adesewa D. Adebisi, Halleluyah O. Aworinde and Adeyinka O. Abiodun
	1.35 pm	Use Of English In Nigerian Women Literacy And Globalisation: A Critical Assessment Adeniyi Folakemi Oyeyemi, Adebileje Adebola Omolara and Olajide Stephen Billy
	1.45 pm	Availability And Teachers' Use Of Textbooks For Teaching Basic Science In Ilorin Metropolis Aderibigbe, A. E., Fakomogbon, M. A., Adegbiya, M. V. & Bola, O. O.
	1.55 pm	Relationship between teachers' characteristics and students' performance in basic science in Kwara state, Nigeria Mulkah Adebisi Ahmed, Musa Mohammed Sulaiman, Rahmat Bukola Ahmed, Shehu Ahmed sanni, Basirat Abdurraheem JIBRIL & Hafsat Alabi Muhammad

	2.05 pm	The Imperative Of Home Grown School Feeding And Health Programme In Achieving The Millennium Development Goals In Nigeria: A Lesson From Osun State, 2006 - 2014 Akanbi, Grace Oluremi & Jekayinfa, Alice Arinlade
	2.15 pm	Assessment of women's participation in rural livelihood activities in Oyo State. An implication for women empowerment Ayoade A.R and Adebayo O.O and Adetumbi S.I
	2.25 pm	The Place Of Resources In Sustainable Implementation Of English Language Curriculum In A Second Context Stephen Billy Olajide and Adeniyi-Egbeola, F. O
	2. 35 pm	The Relationship between Conflict Management and MDGs Blessing Ehira
	2.45 pm	Evaluation of Access To Universal Basic Education In Kwara State Daramola, D.S., Bello, M.B., Yusuf, A. and Amali, I. O. O.
	2.55 pm	Assessment Of Nigeria's Achievement Of The Millennium Development Goals Of Universal Primary Education And Gender Parity Between 2000 And 2013 Jekayinfa, A.A. and Akanbi, G.O.
	3.05 pm	General question time
	3.35 pm	Lunch Break
2nd Plenary/Technical Session		
Chairman: Dr. Mrs G.O. Akanbi		
Rapporteur: Dr. F.A. Ola		
	4.05 pm	Access And Equity In A Nigerian University Fakomogbon, F. A.; Olajide, S. B.; Adeniyi-Egbeola: F. O.; William, F.
	4.15 pm	Nigerian Basic School Teachers' Knowledge And Level Of Use Of Information And Communication Technologies For Teaching And Learning Ganiyu Bello and Isaac O. Abimbola
	4.25 pm	Basic Technology Teachers' Awareness Of The Use Of Improvised Instructional Materials For Teaching In Ilorin Nigeria Issa, Ahmed Idris
	4. 35 pm	Deploying Mental Arithmetic Programme In Nigerian Basic Schools As A Booster To Mathematics Ability And Interest In Pupils Jekayinfa Olatunji & Durojaiye David
	4.45 pm	Effect Of Audio Instructional Package On Basic School Pupils' Performance In English Pronunciation Skills In Kwara State, Nigeria Ogunlade, Oyeronke Olufunmilola, Aмоса, Abdulganiyu Alasela and Onuoha, Udochukwu Daniel
	4.55 pm	Access To Inclusive And Quality Education By Children With Disabilities North Central Nigeria Olawuyi, B.O., Durosaro, I.A, Bolu-Steve, F, Ajagbe, F.N, Nuhu, M.A, Aburime, A, Uyanne, E.O & Jekayinfa, O

	5.05 pm	Assessment Of Available Basic Technology Instructional Resources And Their Frequency Of Use By Basic Schools Teachers In Ilorin, Nigeria Olumorin, Charles Olubode, Obielodan, Olubo O., Kanmodi, Grace Taiwo, Alasan, Joel Ndaceko, and Oladosu, Kamaldeen K.
	5.15 pm	Basic Education And The Quality Question: A Study Of Almajiri Schools In North Central Nigeria H. O. Owolabi, B. O. Olawuyi, M. A. Nuhu, D. S. Daramola, M. I. Jimoh, E. O. Uyanne, A. A. Ogunlade
	5.25 pm	An Edutainment Cognitive-Learning-System: A Panacea For Poor Assimilation Rate Of Pupils Opeyemi B. Adeleke, Adesewa D. Adebisi, Halleluyah O. Aworinde, Adeyinka O. Abiodun
	5.35 pm	Sexism And Attitudes Toward The Use Of Gender Neutral Language Among Academic Staff Of Two Universities Retta Ebi Akingbade and Iyabobola Ajibola
	5.45 pm	Role Of Faith-Based Organizations In Sustaining Primary Education In Kwara Central Senatorial District Saidu, Abubakar and Abdulkareem, Rasaq Lanre
	5.55 pm	Perceived Difficulties By Upper Basic Mathematics Teachers In The New Mathematics Curriculum Implementation Salaudeen, S. M., Ameen S. K. & Salman, M. F.
	6.05 pm	Gender Issue And Theatre Performance In Promoting Wellness Among Artistes Dominic, Olufunmilola L, Abimbola, Timothy I & Afolabi, Taiwo O
	6.15 pm	Improvisation Of Instructional Materials For Teaching Science In Basic Schools In Ilorin South, Kwarastate Nigeria Soetan Aderonke Kofo and Olanrewaju Olatayo Solomori
	6.25 pm	Question time
	6.45 pm	Takeaway Dinner

DAY 2: January 14, 2015		
4th Plenary/Technical Session Chairman: Prof. Dr. G. Oboh Rapporteur: Dr. O.O. Oniya		
Technical session on the sub-theme: <i>Food and nutritional security & Millennium Development Goals 4 & 5</i> Venue: Senate Chamber	9.10 am	Effect Of Blanching On The Antioxidant And Antidiabetic Properties Of African Lettuce (<i>Lactuca Taraxacifolia</i> *) Adedayo, B.C., Ejakpovi, I.I., Nwanna, E. E. and Oboh, G.
	9.25 am	Cognitive Enhancing And Antioxidant Properties Of Aqueous Extracts Of Mucuna (<i>Mucuna Pruriens</i>) And Moringa (<i>Moringa Oleifera</i>) Seeds Adefegha S Adeniyi, Ganiyu Oboh, Dada F. Abayomi, Ejakpovi I. Isaac and Oyeleye S Idowu
	9.35 am	Comparative Study On The Essential Oil Composition, Anticholinesterase and Antioxidative Properties Of Clove (<i>Syzygium Aromaticum</i>) Bud And Ethiopian Pepper (<i>Xylopi Aethiopica</i>) Stephen A. Adefegha, Ganiyu Oboh, Toyin Odubanjo, Opeyemi B. Ogunsuyi
	10.45 am	Chemical Composition and Functional Properties Of <i>Pupuru</i> as Influenced by Species of <i>Rhizopus</i> and Duration Of Fermentation Adejuyitan, J. A and Otunola, E.T
	10.55 am	Phenolics Constituents, Antioxidant Properties And <i>In Vitro</i> A-Amylase And A-Glucosidase Inhibitory Properties Of Different Varieties Of <i>Corchorus Spp</i> Adedayo Oluwaeun Ademiluyi, Ganiyu Oboh, Funmi Aragbaye, Sunday Idowu Oyeleye, and Opeyemi Babatunde Ogunsuyi
	10.05 am	Comparative Study Of Chemical Composition, In-Vitro Anti-Cholinergic And Anti-Monoaminergic Potential Of Essential Oils From Peel and Seeds Of Sweet Orange (<i>Citrus Sinensis</i>) Fruits Ademosun A.O, Oboh G, Oyeleye S.I, Adewuni T.M, Nwanna E.E and Shodehinde A. S
	10.15 am	Rural manpower development through strategic grain reserves and improved storage practices: a pernacy for food and nutritional security. Adeyemo, A. C. and Owokoniran, G.
	10.25 am	Phytochemistry, Nutritional And Pharmacological Properties Of <i>Phyllanthus niruri</i> . A Review Amusan, D.T and Bello, M.O

	10.35 am	Biscuit Production And Rheological Properties Determination Of Optimised Chemical Parameters Evaluation Of Cocoyam (<i>Colocasia Esculenta</i>) Composite Flours Olugbenga Olufemi Awolu and Funmilayo Grace Oseyemi
	10.45 am	An Assessment Of Rural Household Food Security Among Women In Osun State Ayoade A.R and Adewole W.A
	10.55 am	Nutritionists Perception Of Influence Of Food Preservation On Nutritional Values Derivable In Foods By Members Of Households In Ilorin Metropolis, Kwara State Baba, Dare Abubakar
	11.05 am	Nutritional Characterization Of The Leaves And Seeds Of <i>Calotropisprocer</i> Bello, M.O And Yekeen, T.A.
	11.15 am	Genetic Polymorphism Of Transferrin In Fulani Ecotype Indigenous Chicken In Derived Savannah Zone Of Oyo State Ige A.O, Salako A.E, Adedeji T.A, and Ojedapo L.O
	11.25 am	Optimization Of Hydroxyapatite Production From Catfish Bone Farombi A. G, Alade A. O., Olayiwola A. O. And Amuda O. S.
	11.35 am	Mechanizing Postharvest Processing Operations: A Panacea For Food Security And Sustainable Rural Development Onu, O. O., A. C. Onyenwoke, K. J. Simonyan
	11:45 am	Analysis Of Household Foodsecurity Among Rural Households In Orire Local Government Area, Oyo State, Nigeria Olaniyi, O.A And Makinde, O.A
	11.55 am	Effect of fishmeal supplemented with coat button (<i>tridaxprocumbens</i>) on the growth performance of african catfish (<i>clariasgariepinus</i>) fingerlings. Olawaju, J., Oladipupo. T.M and Adeyemi, D.O
	12.05pm	Effects of drying methods on the phenolic constituents, antioxidant properties and angiotensin-i converting enzyme inhibitory activity of african mistletoe (<i>Ioranthus bengwensis</i> l.) leaves Ga Ganiyu Oboh, Olasunkanmi S. Omojokun*, Addayo O. Ademiluyi
	12.15 pm	Preliminary study of water stress effect on growth and yield of okra (<i>albemoschus esculentus</i> l. Moench) Esther Abosede Ewetola, Suarau Odutola Oshunsanya

	12.25 pm	Potentials of pro-vitamin a cassava for alleviating hidden hunger in Nigeria Onyenwoke C.A., Onu O.O. and Simonyan K.J.	
	12.35 pm	Constraints To Food Security Osuolale, O. M. and Abegunrin, T. P.	
	12.45 pm	Quality Of Cashew Nut (<i>Anacardium Occidentale L</i>) Oil Extracted At Different Moisture Contents Adejumo, B. A., Otache, M. Y., Offor, C. S., and Animashaun, I. M.	
*	12.55 pm	Effects Of Fish Feed Carbohydrate Sources On The Floatation And Water Stability Of Fish Feed Pellets Fashina, A.B., Oniya, O.O, Akande, F.B and Oyewole, O.A.	
	1.05 pm	Questions and Discussion	
	1.25 pm	Coffee/tea Break	
5th Plenary/Technical Session			
Chairman: Prof. Dr. Remi Adeyemo Rapporteur: Dr. F.B. Akande			
* Technical Session on the Sub-Theme: <i>Reducing child mortality; improving maternal health; combating HIV/AIDS, malaria and other diseases</i> Venue: Senate Chamber	1.45 pm	Essential Oil From <i>Spodias Mombin</i> Leaves-A Potential Antitumor Agent Abdulkabir O. Oladimeji, Ibrahim A. Oladosu,	46
* ✓	1.55 pm	Phytochemistry And Mode Of Action Of Some Tropical Spices In The Management Of Type-2 Diabetes And Hypertension Stephen A. Adefegha and Ganiyu Oboh	46
✓	2.05pm	Towards Improved Medical Image Retrieval Response Time In Healthcare Delivery: Hybrid Context-Content Based Information Retrieval In Picture Archiving . And. Communication Systems Alamu F.O., Emuoyibofarhe O.J., and Aworinde H.O.	47
✓	2.15 pm	Towards Reducing Child- And Maternal Mortality In Nigeria:-E-Prescription As A Catholicon Aworinde H. O., Alamu F. O., Komolafe V. O.	48
✓	2.25 pm	Distribution Of Free And Bound Phenolics Constitutes In Selected <i>Solanum Spp.</i> Its Effect On Oxidative Stress And Hypertension Nwanna E.E, Ibukun E.O, Oboh G, Obadaye T.S, Ifedayo J.S	48
✓	2.35 pm	Formulation And Evaluation Of Banana Starch As A Polymer In Diclofenac Microspheres Using Ionotropic Gelation Method Olufunke C. Babalola, Oluwatoyin A. Odeku, and Alf Lamprecht	49

	2.45 pm	Development Of An Electronic Diabetes Register With Mobile Patient Interface John B. Oladosu, Grace O. Joshua ¹ and Michael A. Olamoyegun
49	2.55 pm	Evaluation Of Formulated Toothpastes Produced From Combination Of Selected Nigerian Herbal Plants On Dental Caries Causative Bacterial Omage, Kingsley, Azeke, Marshall Arebojie, Ihimire, G. Inegbenose and Orhue N. E. Jerry
50	3.05 pm	Lunch break
6th Plenary/Technical Session Chairman: Prof Dr. J.C. Onyekwelu Rapporteur: Dr. A.O. Adebayo		
	3.35 pm	The Potentialities Of The African Walnut Root (<i>Plukenetia Conophora</i>) In The Management Of Some Diseases (Chronic Cough) O.O.E. Onawumi, P.B. Ayoola and O.O.P. Faboya
	3.45 pm	School Health Services: A Diagnostic Measure For Ensuring Optimal Health Of Inhabitants Of School Environment BABA, Dare Abubakar
	3.55 pm	Estimation Of Serum Urea And Creatinine Level In Healthy Pregnant Women Attending Antenatal Clinic In General Hospital Suleja-Niger State Abubakar F.A. and Baba R.
Technical Session on the Sub-Theme: <i>The role of engineers/ applied scientists in sustainable rural development</i> Venue: Senate Chamber		
	4.05 pm	Development Of A Rainwater Tank Sizing Calculator For Rainwater Harvesting Application In Southwestern Nigeria T.P. Abegunrin and A.Y. Sangodoyin
	4.15 pm	Assessment Of Water Quality Used For Irrigation: Case Study Of Kampe Irrigation Scheme Adejumobi M.A. and Ojediran J.O
	4.25 pm	Distillation Process For Bio-Ethanol Fuel Substitutability: Efficiencies And Interaction Coefficients Prediction Adepoju A. O., Taiwo E.A., Akinwale Y.O., Ogundari I.O. and Ogunkanbi D.A.
	4.35 pm	Efficacy Of Indigenous Plant Powders As Affordable Grains Protectant Against Post-Harvest Losses Associated Withinsect Pest Infestations Adeyemo, A.C. Ashamo, M.O. and Odeyemi, O.O.
	4.45 pm	Prospect Of Biochemical Process For The Improvement Of Millennium Development Goals (Mdgs) In The Rural Areas Alaofin Oluwafemi, Aggary Samuel E., and Alade Abass O.

	4.55 pm	Exploration Of Renewable Energy Resources For Sustainable Development In Nigeria Akinwale Y.O., Ogundari I.O. and Adepoju A.O.
	5.05 pm	Cloud Computing: Benefits, Opportunities And Challenges For Developing Nations Awokola J.A., Emuoyibofarhe J.O., Akomolafe O.P. and Ogunwale O.E.
	5.15 pm	Compaction Characteristics And Delineation Of Acceptable Zones For Waste Wood Ash Treated Lateritic Soil J. R. Oluremi, A. O. Eberemu and K. J. Osinubi
	5.25 pm	Magnetic Indices Of $([Ni_2(Cptp)_2(Pydc)(H_2O)_3] \cdot 7H_2O)_N$, A Newly Synthesized Ni(II) Coordination Polymer Ibrahim A. O., Odunola O., Onawumi O. O. E. Youfu Zhou, Lian Chen, Feilong Jiang, and Maochun Hong.
	5.35 pm	Question time
	6.05 pm	Dinner

DAY 3: January 15, 2015

6th Plenary/Technical Session

Chairman: Dr. A. Taiwo

Rapporteur: Dr. L.A. Jimoda

PARALLEL TECHNICAL SESSION Technical Session on the Sub-Theme: <i>The role of engineers/ applied scientists in sustainable rural development</i> Venue: Senate Chamber		
9.10 am	Impact Of Some Small Scale Farmer-Managed Irrigation Scheme On Farmers Livelihood In Kwara State, Nigeria Oyebode, Y. O and Ejieji, C. J	
9.25 am	Evaluation Of Low Cost Medium Scale Solar Cro Dryers For Rural Farmers In Nigeria Eke, Akachukwu Ben	
9.35 am	Effects of OLR On Biogas Production Pattern Of Cow Slurry In CSTR Experiments At Mesophilic Temperatures S.O. Jekayinfa, A.O. Adebayo, and B. Linke	
9.45 am	Enhancement Of Mushroom Nutritional Quality Using Biotechnological Approaches Majolagbe, Olusola N	
9.55 am	The Effects Of Agricultural Engineering Operations On Soil/Water In A Typical Medium- Scale Farm Environment In South-Western Nigeria Nta, S.A. and Lucas, E.B.	
10.05 am	Analysis of Biomass Combustion-Generated Pollutants: From Emissions to Human Effects M. G. Sobamowo, S. J. Ojolo and O. O. Adegbenro	
10.15 am	Techno-Economic Analysis And Potentials Of Biomass Gasification Technology In Nigeria M. G. Sobamowo, S. J. Ojolo and O. O. Adegbenro	
10.25 am	Life Cycle Assessment Of Cassava Flour Production: Case Study In Nigeria Olaniran, J.A., Jekayinfa, S.O., Agbarha H.A.	
10.35 am	The Development Of Pyrolysis Equipment For Managing Oil Palm Bunch (<i>Eleaisguineensisjacq</i>), Refuse O.J. Adeosun, A.O. Olorunnisola, E.B. Lucas	
10.45 am	Influence Of Sorghum On Proximate And Phytochemical Composition Of Cultivated <i>Pleurotus Florida</i> (Edible Mushroom) Olusola, J. A., Adeduntan, S.A., Oyerinde V. O. and Oloniyo O. S.	
10.55 am	The Potentials Of Sweet Potatoes (<i>Ipomeabatatas</i>) As A Mineral Supplement In Diets Of Hybrid Catfish (<i>Heteroclaris</i>) Omosowone, O. O. and Otitolaye G. T.	
11.05 am	Assesment Of Fish (Tilapia) Species Distributions And Diversity In Southwestern Nigeria For Food Security R.N Onyeabor and O.A Bello-Olusoji	
11.15 am	Length-weight relationship and condition factor of <i>Sarotherodon galilaeus</i> (linnaeus, 1758) in southwestern nigeria R.N Onyeabor	

	11.25 am	Performance Evaluation Of An Inverted Downdraft Biomass Gasifier Cookstove Orisaleye, J. I., Ojolo, S. J. and Ogbonnaya, M
	11.35 am	Evaluation Of Some Trace Element Concentration In Issele Mkpitime Lake, Anocha L.G.A, Delta State, Nigeria Pearse, O. Femi and Oroja, Ayoola
	11.45 am	Application Of Corn Cob Ash As A Pozzolan Material In The Production Of Sandcrete Hollow Blocks Raheem, Akeem Ayinde
	11.55 am	Effect of spent calcium carbide on the growth and biomass of okra (<i>abelmoschus esculentus</i> L. Moench) Salau, I.O. and Abiya, S.E.
	12.05pm	Biological Effect Of Leaf Extracts Of (<i>Lasiantera Africana</i>) On A-Amylase, A -Glucosidase And Angiotensin- I- Converting Enzyme <i>In-Vitro</i> Shodehinde S. A, Nwanna E.E, Adebayo A.A
	12.15 pm	Heavy Metal Content And Human Health Implications Of Some Vegetables Irrigated With Waste Water In Takoradi Metropolis, Western Region, Ghana Adewunmi Taiwo
	12.25 pm	Essential Oil From Lemon Peels Inhibit Key Enzymes Linked To Neurodegenerative Conditions And Pro-Oxidant Induced Lipid Peroxidation Ganiyu Oboh, Tosin A. Olasehinde and Ayokunle O. Ademosun
	12.35 pm	Indigenous Fishing Techniques and Practices as Tools for Reducing Climate Change Effects in Ondo State Coastal Waters, Nigeria. Adeleke M. L., Afakpe, E.L., and Popoola, T.O.
	12.45 pm	Enhancement Of Biogas Yields From Co-Digestion Of Pig Slurry With Maize Stalk At Mesophilic Temperature A.O. Adebayo, S.O. Jekayinfa & B. Linke
	12.55 pm	Assessment Of Water Quality Used For Irrigation: Case Study Of Kampe (Omi) Irrigation Scheme Adejumobi M.A, Ojediran J.O And Ajiboye O.O
	1.05 pm	Evaluation Of National Capability For The Production Of Activated Carbon From Agricultural And Industrial Wastes Alade, Abass O. , Amuda, Omotayo S., Afolabi, Tinuade J., and Jameel, Ahmad T.
	1.15 pm	Application Of Response Surface Methodology For Energy Analysis Of Thin Layer Drying Of Physic Nuts (<i>Jatropha Curcas</i>) Onifade, T.B. and Jekayinfa, S.O.
	1.25 pm	Questions and Discussion

	2.00pm	Coffee/tea Break
5th Plenary/Technical Session		
Chairman: Prof. Dr. S.O. Olabiyisi Rapporteur: Dr. T.P. Abegunrin		
	2.05pm	Performance Evaluation of a Developed Electric Multipurpose Crop Dryer Onifade, T.B. and Jekayinfa, S.O.
	2.15 pm	Preparation of Hydroxyapatite From Seashell and Animal Bone Musa, R.T., Abdus-Salam N., & Ojibara B. A.
	2.25 pm	Effects of Operating Parameters on Performance And Exhaust Gas Emissions of Spark Ignition Engines A.A. Aderibigbe, S.K. Fasogbon, A.D. Ogunsola and T.A. Adio
*	2.35 pm	Effects Of Moisture Content On The Efficiency Of A Groundnut Decorticator Fashina, A. B., A. Saleh and F.B. Akande
	2.45 pm	Prospect Of Biocoagulant For The Treatment Of Municipal Water For The Improvement Of Millennium Development Goals (Mdgs) In The Rural Areas Adediran Deborah A., Abegunde Daniel O., Ogunleye, Oladipupo O. and Alade Abass O.
	2.55 pm	Improved livestock Sub-Sector: A Key Toreducing Protein Malnutrition In Achieving Goal One Of The MDGs-A Review Ojebiyi Olusegun O.
	3.05pm	Compressive Strength Properties Of Cassava (<i>Manihot Esculenta Crantz</i>) Roots Oriola, K. O and A. O. Raji
	3.15 pm	Investigation Into Pyrolysis Of Palm Kernel Shells And Oil-Palm Husk In Nigeria O.-E. Itabiyi and E.B Lucas
	3.25 pm	The Effects Of Floor Space Area And Stocking Density On Egg Production Of Olympia Black Layers J.O. Osunade, O.O. Oniya and K.A. Iyalabani
	3.35 pm	Investigation Of Neem Seed Husk Ash As Partial Replacement For Cement In Concrete Raheem, Akeem Ayinde and Ibiwoye, Emmanuel Olatunde
	3.45 pm	Optimal Raw Material Mix For The Production Of Rice Husk Ash Blended Cement Raheem, Akeem Ayinde and Kareem, Mutiu Abiodun

	3.55 pm	Insects As A Sustainable Feed Ingredient For Animal Production - A Contribution To Food Security Sikiru Akeem Babatunde
6th Parallel Technical Session Chairman: Prof Dr. A.A. Raheem Rapporteur: Dr. O. Ojebiyi		
PARALLEL TECHNICAL SESSION Technical Session on the Sub-Theme: <i>Environmental sustainability; and global partnership for development/ MDGs breakthroughs and challenges for the next generation</i> Venue: FET Conference Centre	9.10 am	Impact Of Urban Sprawl Development On Agricultural Landuse In Ondo State, Nigeria Abolade, Olajoke, Adigun Folasade Oyenike* and Adeyonu Bunmi Adeola
	9.20 am	Development Of Water Quality Index For Chanchaga River Minna, Nigeria Otache, M.Y., Adejumo, B. A., Animashaun I.M., Joseph, M.S
	9.35 am	Airborne Particulates And Carbon Monoxide pollution In The Airshed Of Garri Processing Industry Jimoda, L.A., Adeniran, J.A., Yusuf, R.O., Fakile, B.S and Sonibare, J.A.
	9.45 am	Assessment Of Socio-Economic Impact Of Taungya Plantation System In Oluwa Forest Reserve, Ondo State, Nigeria Adeoye I.A, Ajewole O.I, Agbeja B.O
	9.55 am	Investigating The Cause Of Poor Coverage In Terrestrial Television Broadcast- Reality Television Service (Rts) Iwo, Osun State, Nigeria As Case Study Wuraola Ajao, Okelola, M.O and Ojo, J.A
	10.05 am	Geophysical evaluation of foundation soils in a basement complex terrain. A case study of lautech campus, ogbomoso, southwestern Nigeria Akinlabi I.A. and Adegoke O.T
	10.15 am	Geoelectrical And Hydrogeochemical Studies Of Groundwater Contamination Due To Wastes From Attenda Abattoir In Ogbomoso, Southwestern, Nigeria I.A. Akinlabi, A.M. Akinola and A.K. Afolabi
	10.25 am	Impact Of Land Use And Land Cover On Land Surface Temperature Of Akure, Ondo State, Nigeria Akinola, O. V.
	10.35 am	Radioactivity Level Of Drilled Well Water Across Selected Cities In Ondo And Ekiti States, Southwestern Nigeria And Its Radiological Implications A.E Ayodele, A.M Arogunjo, J.I Ajisafe- and O.T Arije

	10.45 am	Assessment Of The Radionuclide Content Of Some Public Well Water Within Ondo And Ekiti States Southwestern Nigeria Ayodele A.E., Arogunjo, A.M., Ajisafe J.I. and Arije O.T.
	10.55 am	Health Detriment Associated With Exposure To Natural Radioactivity From The Soil Of Ondo And Ekiti States South Western, Nigeria A.E Ayodele, A.M Arogunjo, J.I Ajisafe, and O.T Arije
	11.05 am	Assessing The Availability And Utilization Of Recreational Facilities Of Selected Hotels In Akure F.C. Arowosafe and C. O. Adesuyi.
	11.15 am	Proximate And Phytochemical Composition Of <i>Irvingia Wombulu</i> From Derived Savannah Of Ondo State, Nigeria Olusola J. A. and Onyekwelu J. C.
	11.25 am	Quality Status Of Soil Environment Of A Tung- Based Crop Rotation And Intercropping System In Southern Brazil Awe, G.O.Giacomini, S. and Reichert, J.M
	11.35 am	Vehicular Emission: Carbon Sequestration Potential Of Teak Tree (<i>Tectona Grandis</i>) In Abeokuta Metropolis Babalola A. A Layeni A. T Nwaokocha C. N and Lawal N.S
	11.45 am	Socio-Economic Contributions Of Cottage Industries To Rural Livelihood In Nigeria Habdulakeem B. Bhadmus, Jonathan C. Onyekwelu and Adeoye A. Israel
	11.55 am	Economic Analysis Of Heavy Metals Pollution On Soil, Ocean And Rice Production In Nigeria Ezekiel, Ayinde Alani
	12.05pm	Millennium Development Goals: A Case Of Greenhouse Gases And Black Carbon Emissions From Gas Flared In The Niger Delta Area Of Nigeria Solomon O. Giwa, Collins N. Nwaokocha
	12.15 pm	Airborne Particulate Matter In The Atmospheric Environment Of A Tobacco Manufacturing Plant Adeniran, J. A., Jimoda, L.A., Adesanmi, A.J., Fakinle, B.S. and Sonibare, J.A.
	12.25 pm	Ecophysiological studies of a strandline plant <i>vigna marina</i> (burm. F.) Merril Odiyi, B.O. and Bamidele, J.F.
	12.35 pm	Identification And Characterisation Of Wetlands For Sustainable Development In Ede Region, Southwestern Nigeria Gasu, M. B.
	1.05 pm	Food Security And Environment Sustainability Through The Application Of Bio-Nematicides As Alternative To The Use Of Synthetic Nematicides In Nigeria T.I. Olabiyi

	1.25 pm	The Modular Petroleum Refinery Alternatives As An Energy Security And Environmental Sustainability Strategy In Nigeria: A Technology Policy Assessment I.O. Ogundari, Y. O. Akinwale, A.O. Adepoju, J.B. Akarakiri
	1.35 pm	Questions and Discussion
	2.00pm	Coffee/tea Break
5th Plenary/Technical Session		
Chairman: Prof. Dr. A.A. Adegbola Rapporteur: Dr. A.S. Onawumi		
	2.05pm	Modeling Of Trace Gas Pollution From Institutional Waste Dumpsites Using Gabi ₆ Tool H.T Kassim, O.O Siyanbola and S.O. Ojoawo
	2.15 pm	Finite Element Modeling Of Thermal Stresses And Fatigue Life In Amorphous Silicon Solar Cells T. B. Asafa
	2.25 pm	Rurban Studies: Reinventing The Public Closet Omokanye Oluseyi
	2.35 pm	Towards Environmental Sustainability: Willingness-To-Pay For Improved Solid Waste Management By Rural Households In Kwara State, Northcentral Nigeria Omotesho, O. A., Falola, A. and Awolu, S. O.
	2.45 pm	Balancing Rural Development And Environmental Sustainability In Developing Countries: The Roles Of Geospatial Technology Orewole, M.O and Adegboyega S.A.
	2.55 pm	The Effect Of Activated Carbon Filtration Treatment For Water Quality Assessment Orji, Francis N.
	3.05pm	Assessment Of Land Grading Cut-Fill Ratio Adjustment On Soil Losses Asuzu, Chimaraoke Chikwadoro and Orji, Francis Nkemdirim
	3.15 pm	Snopsis On Enegy And Society Oladeji, J.T., Mudashiru, L.O, Olafimihan, E.O. and Itabiyi, O. E
	3.25 pm	Incidents, Accidents Occurrence And Their Effects In Pipeline Distribution Of Petroleum Products In Nigeria Mudashiru L.O., Bello R.A., Akanbi D.R., Adako O.O. and Nasiru S.O.
	3.35 pm	Development of an Anaerobic Digester for Agricultural By-Products Adeoye A. A., Dairo O. U., Olayanju T. M. A and Adeosun O. J

	3.45 pm	Participatory Theatre And The Millennium Development Goals Crusades In Nigeria Afolabi, Taiwo Okunola
	3.55 pm	Technical Entrepreneurship: A Panacea For Unemployment And Extreme Poverty (MDGs 1 & 2) Makanjuola E Ogunjemilua
	4.05 pm	Sustainable Rural Development An Imperative For Achieving MDGs- The Roles Of Engineers Olajide, J.O., Ajala, A.S. and Akande, F.I.
	4.15 pm	Assessment Of Weather Variability Impact On Cowpea Yield In South Western, Nigeria Paul Oluwasegun Oke and Olumuyiwa Idowu
	4.25 pm	Questions/Discussions
	5.40 pm	Closing/Conference Evaluation Communiqué/Conf
DAY 4: January 16, 2015		
	Latest 12.00noon	Final departure

IMPACT OF URBAN SPRAWL DEVELOPMENT ON AGRICULTURAL LAND USE IN ONDO STATE, NIGERIA

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This study determined and analyzed the causes as well as the spatial pattern of urban sprawl development and its associated impacts on the agricultural lands in Ondo town. Multistage sampling technique was employed to administer a total number of two hundred and thirty-four (234) questionnaires to residents. Descriptive statistics was used to summarize nominal variables while Likert scale was employed to examine perception of residents on characteristics, causes of urban sprawl development as well as factors responsible for encroachment into the surrounding agricultural lands. The spatial pattern of urban sprawl development was determined using satellite imageries acquired through ArcGIS 9.3, Idrisiselva 17.0 softwares. The result reveals that the major characteristics of urban sprawl are encroachment of agricultural lands (GCI 3.34), residential development beyond the city boundary (RCI 3.19) and untarred road with potholes (RCI 3.04). Intensity in the use of land (3.41), urbanization and increase in population (3.26), were perceived to be the major factors responsible for spatial expansion and encroachment into the surrounding agricultural lands. The imageries revealed the total land area to be 847.91sq.km. The total built-up area in 1986, 2002 and 2010 are 12.92sq.km, 20.14sq.km and 21.67sq.km respectively. However, the built-up area experienced an increase of 7.22sq.km between 1986 and 2002 and 1.53sq.km between 2002 and 2010. The study therefore recommends the use of housing schemes, afforestation, and relevant planning policies that will protect nature and prevent incursion into agricultural lands. This will prevent haphazard development and consequently promote harmonious land use and sustainable environment.

DEVELOPMENT OF WATER QUALITY INDEX FOR CHANCHAGA RIVER MINNA, NIGERIA

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Ensuring good health status of our water systems is one major way to having sustainable environment. The use of a water quality index allows for the state of a water system to be quantified by reducing a large quantity of data on a range of physicochemical and biological variables to a single number that gives reflection of all the variables. The aim of this study is to develop an overall index of water quality for river Chanchaga and its application for water quality evaluation. Water samples were collected and analysed for physicochemical and biological parameters. The analytical results obtained were used as the raw data for the indices. Two approaches were adopted for the determination of the Water Quality Index (WQI), the modified Delphi method and Principal Component Analysis (PCA). For the modified Delphi method, knowledge based experts were developed for proper assessment. The PCA was used to categorize water quality parameters into "organics", "particulate", and "micro-organism" parameters and the structured matrix extracted was used for River Status Index calculation (RSI). The high loading of DO, pH, and Nitrates on the first component (43.58 %) indicate that the water quality is highly influenced by organics variables. The WQI result obtained shows that the water quality of river chanchaga falls in the class of "medium" (WQI= 69.55) and the RSI value (1.37) for the river signified that the river water quality falls in the oligo-trophic rank according to trofic level classification. Thus, the river water can be used for all purposes including drinking but after conventional treatment.