CURRICULUM VITAE

NAMES: Kolapo Olatunji OLUWASEMIRE,
B.Sc (Soil Science, Ibadan),
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{A} **SURNAME:** **OLUWASEMIRE**

{B} **OTHER NAMES:** Kolapo Olatunji

{C} **AREAS OF SPECIALIZATION:** **Agroclimatology/Soil Fertlity Evaluation/ Water and Environmental Management.**

{D} **DATE AND PLACE OF BIRTH:** 15-12-1958, Ibadan, Oyo State

{E} **MARITAL STATUS:** Married with four children (2 boys and two girls)

{F} **STATE OF ORIGIN:** Osun State

{G} {H} **NATIONALITY:** Nigerian

{H} **NIGERIAN LANGUAGES UNDERSTOOD:** English, Yoruba & Hausa

{I} **CURRENT POSTAL ADDRESSES**: Department of Soil Resources Management, Faculty of Agriculture, University of Ibadan, Ibadan, Oyo State, Nigeria.

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{J} **EDUCATIONAL INSTITUTIONS ATTENDED WITH DATES:**

i. Baptist Day School, Kano, Nigeria [1964-1970]

ii. Ijebu-jesa Grammar School, Ijebu-jesa, Oriade L.G.A., Osun State, Nigeria [1971-1976]

iii. The Polytechnic, Ibadan, Nigeria [1976-1978]

iv. University of Ibadan, Ibadan, Nigeria [1978-1982]

v. International of Tropical Agriculture, Ibadan, Nigeria [Jan.-Mar. 1985]

vi. Auburn University, Auburn, Alabama, U.S.A. [Jun.-Aug. 1987]

vii. University of Ibadan, Ibadan, Nigeria [Sept. 1985-Oct. 1987]

ix. Wageningen Agricultural University, Wageningen, The Netherlands [Mar.-Dec. 1996]

x. Ahmadu Bello University, Samaru, Zaria, Nigeria [Aug. 1993-June 1998].

{K} **ACADEMIC/PROFESSIONAL QUALIFICATIONS WITH DATES:**

i. Northern Nigeria Certificate of Primary Education [Dec. 1970].

ii. West African School Certificate [Division one- June 1976]

iii. General Certificate of Education [G.C.E. A\L- March 1978]

iv. B.Sc. [Agric.] with Honours in Soil Science. Second Class [Upper Division-July 1982]

v. M.Sc. [Agronomy (Soil Science)] Sept. 1987.

vi. Ph.D. Soil Science (Agricultural Meteorology)- 1998

{L} **Additional education/qualifications with addresses and dates**:

i. Certificate of successful completion of course on cowpea and soybean production [March 1985], International of Tropical Agriculture, Ibadan, Nigeria [Jan.-Mar. 1985]

ii. Certificate of participation in the Marketing Management Development Programme for fertilizer marketing executives, F.A.I. New Delhi, India [Sept. 1986] and Certificate of participation in the specialized programme on logistics of fertilizer distribution, F.A.I. New Delhi, India [Sept. 1986]

iii. Certificate of Achievement for successful completion of the course in Soil Testing and Fertilizer Management [Aug. 1987], Auburn University, Auburn, Alabama, U.S.A. [Jun.-Aug. 1987]

iv. Certificate of successful completion of course on Supervisory Management, IITA, Ibadan [3 Aug.-7 Aug. 1992]

v. Certificate of successful completion of course on Computer Appreciation, IITA, Ibadan [31 Aug.-4 Sept. 1992]

vi. Certificate of successful completion of training course on Sustainable Food Production Systems, IITA, Ibadan [22 May-9 June, 1995]

vii. Certificate of participation in the International Post-Graduate Course in Agricultural Meteorology held at WMO-RMTC, Lagos, Nigeria [4-22 May, 1998].

viii. Certificate of successful completion of course period on proposal writing, Wageningen University, The Netherlands [22 Sept.-15 Dec. 2000].

ix. Certificate of successful completion of Workshop on the Use of Models in Agriculture conducted by the International Institute for Soil Fertility Management, Lome, Togo held at IAR, Zaria [9-12 April, 2001]

x. Training of National Experts on climate change and estimation of green house gasses emission for the preparation of Nigeria's second National Communication, 21-24th January 2008, Sharon Ultimate Hotels, Abuja.

{M} **ACADEMIC DISTINCTIONS/AWARDS:**

i. ***Won BEWAC NIG. LTD. Prize for the best student in Agricultural mechanization [University of Ibadan, 1982].***

ii. ***International Institute of Tropical Agriculture Research Fellowship for Ph.D. studies, IITA, Ibadan [Aug. 1993- Dec. 1995].***

iii. ***Fellowship of the Ministry of Foreign Affairs, Directorate General for International Cooperation (DGIS), Department of Science and Technology (DST), Research Focus Programme (SO), The Hague (Netherlands) through the Traditional Techniques of Microclimate Improvement (TTMI) project of the Wageningen Agricultural University, The Netherlands [Aug. 1993- Dec. 1996].***

iv. ***Recipient of the START (SysTem for Analysis, Research and Training)/USCCSP (United States Climate Change Science Program) African Small Grant Program for Project on Environmental Change tendered to African Global Change Research Community (August 2004-July 2005).***

v. ***Visiting Scholar at the Department of Agricultural and Biological Engineering, University of Florida, Gainesville, Florida, United States of America (January-April 2005).***

vi. ***Third Prize in the 2006 INSAM (International Society for Agricultural Meteorology) contest on best examples of agrometeorological services.***

vii. ***Australian Leadership Award Fellowship-Round 12: Mining West African Legacy Agricultural Research to Enhance Agricultural Productivity. Faculty of Agriculture and Environment, University of Sydney, NSW 2015, Australia (June-July 2013).***

viii. ***Participant/Co-recipient of awarded DAAD German Academic Exchange Service In-Country/In-Region Scholarships Programme (Section T32-Scholarship Programmes Africa) in collaboration with the School of Agriculture, University of Ghana, Legon, Accra, Ghana (January 2017).***

{N} **NAMES AND ADDRESSES OF PREVIOUS EMPLOYERS:**

i. Department of Agronomy, University of Ibadan [1977 Long vacation period]- Laboratory Assistant. (Analysis of soil, water and plant samples, interpretation of results and report writing)

ii. Federal Department of Pest Control Services, Maiduguri, Borno State [Long vacation period]- Field Staff. (Involved with the large scale aerial control of locust and Queala birds in North eastern Nigeria:July- September, 1980)

iii. College of Agriculture, A.B.U. Kabba, Kogi State [N.Y.S.C]-Sept. 1982-July 1983. Lecturer (Taught soil and water management and basic sciences at the Pre-OND, OND and HND levels).

iv. Oyo North Agric. Development Project, Saki, Oyo State. Dec. 1983-Mar. 1989- Senior Research Officer/Subject Matter Specialist [Agronomy]. This was a world-bank assisted project where I worked as a link between the National Research Institutes/International Research Institute (IITA) and farmers in the transfer of improved technologies (improved seeds, use of fertilizers and pesticides and other soil and water management techniques). I was also responsible for the conduct of forth night training of extension agents on soil management matters as subject matter specialist.

v. Oyo State Agric. Development Programme, Saki, Oyo State. April 1989-May. 1990- Zonal Research Officer [Ogbomoso zone].Carried out the same functions as stated above after the upgrade of the project to a state-wide one from the enclave of Oyo alone.

vi. International Institute of Tropical Agriculture, Oyo Road, P.M.B. 5320, Ibadan, Nigeria- Research Associate [Crop Physiology], Kano Station, Kano. June 1990-July 1993. I worked as an associate with my scientist, Dr. P.Q. Craufurd in the study of cowpea-based cropping systems within the Sudan and Sahel savanna zones of northern Nigeria. I was involved with the setting up of experiments across these areas, crop and soil data collection, data analysis and interpretation. I also assisted in report writing.

vii. International Institute of Tropical Agriculture, Oyo Road, P.M.B. 5320, Ibadan, Nigeria- Research Fellow, Crop Ecology and Modeling Unit, RCMD, IITA, Ibadan. August 1993-December 1995. I obtained a scholarship with join sponsorship by the IITA, Ibadan and the Government of the Netherland under the Traditional Techniques for Microclimate Improvement to undertake Ph.D. studies in the field of Agrometeorology of the cowpea-based cropping systems (Millet/cowpea and sorghum/cowpea cropping systems). The studies were focused on the basis for these cropping systems in terms of above and below ground

natural resources use in relation to their productivity.

ix. Wageningen Agricultural University, Department of Meteorology, Wageningen, The Netherlands- Research Fellow [Mar.-Dec. 1996]. The period here was used for obtaining training in report writing and my Ph.D thesis writing and defence.

x. Department of Soil Science, Faculty of Agriculture, Institute of Agricultural Research, Ahmadu Bello University, Zaria, Nigeria.- Lecturer II to **Senior Lecturer (Jan. 1998 to April 2008).** I was employed as a Lecturer/ Research scientist by the Ahmadu Bello University, Zaria and was the Head of the Meteorological Services Unit with mandate for the installation, maintenance of weather equipment, data collection and analysis. I also prepare and present annual reports on seasonal weather and agricultural production. I was a member of the Farming Systems Research Programme, Cereal, Legume and Fibre Research Improvement Programmes of the Institute of Agricultural Research with records of research studies conducted on technological improvement in the production of crops under these programmes. I also taught Agrometeorology, Irrigation and Drainage, Soil-Plant-Water Relationships at the undergraduate and graduate student's levels.

{O} **NAME AND ADDRESS OF PRESENT EMPLOYER:**

Department of Soil Resources Management, Faculty of Agriculture, University of Ibadan, Ibadan, Oyo State, Nigeria.- Professor and Head, Department of Soil Resources Management **(2018 to date)**

{P} **TEACHING/ACADEMIC RESPONSIBILITIES**:

(a) **Department of Agronomy Undergraduate Coordinator (2008-2012 Sessions).**

(b) **Undergraduate Teaching**: **Introduction to Agricultural Climatology (AGY 212) at 200 level, Agrometeorology (AGY 412), Principles of Crop Production (AGY 410), Techniques in Field Experimentation and Analysis (AGY 530) and the Director/Chairman of the Faculty of Agriculture and Forestry Practical Year Training Programme (PYTP) 2012-2014 Sessions.**

(c) **Supervised twelve (25) final year (500 Level) students' undergraduate projects**.

(d) **Postgraduate Teaching**: **Soil Fertility Evaluation and Management, Agricultural Water Management: Irrigation and Drainage (SOS 730) and Soil-Plant-Water Relations (SOS 715), Advanced Statistical Techniques for Agronomic Experiments (AGY 717), Climate Change and its Impact (PPB 719) and Special Topics in Agronomy (AGY 719)**.

(e) Postgraduate Supervision: **Major supervisor** to three **(3) ongoing Ph.D students,**

Five concluded and defended Ph.D. thesis and **supervisor of 3 MSc Projects** (on going) and **Supervised of eighteen (18) concluded M.Sc. studies.**

(f) Chairman, Practical Year Training Programme, Faculty of Agriculture and Forestry, University of Ibadan, Ibadan, Nigeria (Sept. 2012- Sept 2014).

(g) Assistant Hall Warden, Tedder Hall, University of Ibadan, Ibadan, Nigeria

(h) Member of the Department of Agronomy Laboratory Management Committee e

(i) Member of the Department of Agronomy Finance Committee

(j) Faculty Representative on the University of Ibadan Research and Development Committee (2017-2019).

(k) Head, Department of Soil Resources Management (June 2020 to date).

Professional service/Honour societies:

- I am the Deputy National Co-ordinator for Nigeria of the **Traditional Techniques of Microclimate Improvement Project** based at the Wageningen University, the Netherlands.
- Member: **International Society for Agricultural Meteorology** (**INSAM**)
- Member: **Nigerian Meteorological Society** (**NMS**)
- Member: **Soil Science Society of Nigeria** (**SSSN**)
- Member: **Agricultural Society of Nigeria** (**ASN**)
- Member: **Society for Occupational Safety and Environmental Health** (**SOSEH**) **Inc., Nigeria**
- **Registered Soil Scientist (RSS), Nigerian Institute of Soil Scientist**

Community service:

Nation/state

i. I was serving as a member representing IAR on the **"Ministerial working group on Agricultural Meteorology- Concept and Application of Meteorological Information for Agricultural Production"** constituted by The Honourable Minister of Agriculture, Federal Republic of Nigeria.

ii. **The installation of four units of Automatic Weather Station and training of staff of the Sokoto State Agricultural Development Project** on the use and maintenance of the equipment (March, 1999).

iii. **Soil fertility evaluation, mapping and recommendations for two local governments in Oyo, Osun and Ondo states. Consultant Expert. Federal Ministry of Agriculture and**

Water Resources, Abuja, Nigeria (February – March, 2009).

iv. Nominated Member, Expert Team (Agriculture) on preparation and submission of Nigeria's Second National Coomunication to the IPCC by the Special Climate Change Unit of the Federal Ministry of Environment with responsibility for the "**Inventory of GHG and Mitigation options in Nigeria**".

v. **Identification of Agro-Production Sites in Osun State.** A report submitted to the National Fadama Coordination Office, Abuja. August, 2009.

vi. Nominated Member, **Osun State Fertilizer Distribution and Monitoring Committee.** The Government of Osun State, Nigeria (2011 to 2014).- I was the Agronomist on the team. I supervised the use of Global Positioning System (GPS) for geo-referencing farmers' field for accurate fertilizer recommendation and use by identified field crops as appropriate.

vii. **Regional Program Officer, Southern Nigeria, Federal Ministry of Agriculture and Rural Development/SG 2000**: Cassava and **Rice Production/Value Addition Programme** (2014 to date). The job is essentially the extension of improved and timely provision of inputs and

viii. technological packages (improved planting materials, fertilizers, soil and water management options and pesticides) to **farmer groups in Ogun, Ondo, Kogi, Anambra and Cross Rivers** States of Nigeria. The objectives are to at least double the yields of rice and cassava and ensure adequate processing for enhanced market acceptability in these states. These objectives are largely achieved in cooperation with the various states' government Agricultural Development Programme staff. Counterpart fund from the Nigerian government compliments funds from **SASAKAWA African Association Office in Japan**.

viii. LEAD CONSULTANT to New Nigeria Foundation (NNF), Lagos on Agriculture (Agricultural Value Chain). **Consultancy on Value Chain Analyses of Commodities in Nigeria.** Conducted value chain analyses of four commodities – cowpea, maize, groundnut and plantain in Nigeria with the main aim of providing comprehensive and in-depth analyses of some hypothetical intervention impacts on small holder farmers and articulate value propositions to potential partners in each of the commodity sector. The assignment covered: Identification of the key production, processing and end use regions for each commodity and the defining factors of these regions (crop rotations, cash crop, farmer behavior, intensification, weather, etc.), identification of key primary chain actors along the commodity value chain: (from the Producers and inputs supply to the end consumers) identify who they are, possible numbers, their key functions, key operational challenges and possible interventions. Also, evaluate the social aspects, such as participation and governance along the chain as well as the key chain blocker(s) and enabler(s)

a. Understand the input delivery systems for each commodity
b. Develop market maps and examine the different markets channels outlining demand by market segment
c. Gather information on pricing of commodities through seasons and multi-year trends-

indicate the changes in prices along the value chain together with the margins and other economic aspects like market share of the commodity and its products transactions along the value chain.

d. Examine the regulatory and policy framework that affect the commodity sector and secondary markets, outlining the key provisions, level of implementation and the challenges involved in their implementations.
e. Analyze the over-all business environmental under which the commodity is operating under in Nigeria and link this to the national level
f. Identify and analyze the gender and power dynamics along the value chain and advice on Intervention impact on women
g. Identify institutions and organizations involved in the commodity value chain development and articulate value proposition for these institutions and organizations.

ix. CONSULTANT to International Centre for Energy, Environment and Development (ICEED), Abuja, Nigeria on Index-Based Crop Insurance Technical Assistance. I provided the support for the Pre-feasibility Study for the implementation of Index Based Crop Insurance for selected areas and crops in Nigeria (March-July 2011). The assignments included characterization of maize and rice production in Enugu, Cross River, Lagos, Kano, and Kaduna States of Nigeria, assessment of the weather station network in Enugu, Cross River, Lagos, Kano, and Kaduna States and assessment of the weather data collection system and weather information quality assessment, provide statistics of crop production (yields, planted area, harvested area, and production) for maize and rice in the identified states. Database and reports were submitted

x. CONSULTANT- as an AgroMet Specialist/Soil Scientist on Weather Index Insurance (WII) for small-holder farmers under rain-fed farming in Nigeria to ROYAL EXCHANGE PLC (RE), Nigeria (May 2015 to January 2018). The assignment involved specific tasks that would contribute to building of the required research support systems for the Basis of the Weather Index and thereby enhance the achievement of RE's responsibilities on the project. Specific tasks were the establishment of crop phenology and growth cycle for **selected Maize varieties** suitable for WII research, conduct field research and collate Crop and Soil data at WII pilot location, engage in crop and soil stress-testing/Modelling and development of Basis/Reference Values for the Index. Concluded with a submitted report.

xi. Member, Expert Team 2.1- TT 2.1: Task Team on Agromet and GIS Applications for Agricultural Decision Making. **Commission for Agricultural Meteorology (CAgM), World Meteorological Organization**, Geneva, Switzerland (2016 to 2018). Mandate include studies on the effect of changing weather conditions with specific reference to rainfall patterns and air temperature on the phenology of maize, cowpea, cassava, groundnut and other crops in Nigeria. The study involves the observation and data collection on developmental and growth stages of these crops under different water and temperature variation regimes. The study is on-going.

xii. Served as External Examiner to M.Sc. Dissertation and Ph.D. thesis defense at the Department of Crop Production and Soil Science, Ladoke Akintola University of Technology, Ogbomoso, Oyo

State, Department of Soil Science, Obafemi Awolowo University, Ile Ife, Osun State, Department of Soil Science, Ahmadu Bello University, Samaru-Zaria, Kaduna State and Ph.D thesis defense at the Department of Soil Science, Federal University of Agriculture, Makurdi, Benue State, Nigeria.

xiii. **Lead Agronomist/GIS Expert** on Sorghum farm-based activities data collection and field mapping of selected LGAs in Kano, Katsina and Kaduna states of Nigeria for FP&FP Enterprises, No. 2 , Araromi Street, Akute, Ogun State, Nigeria 5th -20th February, 2018. The assignment was undertaken with the responsibility of collecting farm-based data and mapping farmers' fields/activities at specified Local Government Areas in Kaduna, Kano and Katsina States of Nigeria that would contribute to Sorghum Upstream Value Chain. Specific tasks included collating the name (surname, middle and first names) of farmers in the specified sites, name of the ward, village and local government of each site, GPS location of site (farm coordinates), size of individual farms and crops grown. For each farm the bounding coordinates were captured using the GPS as well as the centroid coordinates. The attributes of each farm were then stored on a database to facilitate the mapping. Created maps were superimposed on a Google image for easy identification and onward monitoring.

xiv. Irrigation Agronomist as a consultant to SMEC Nigeria Limited of "5th Floor, Oakland Centre 48 Aguiyi Ironsi Street, Maitama, Abuja, Nigeria" ("SMEC"): Responsible for providing technical specialist inputs and reports as the Agronomist for delivering agronomy related studies for the assignment *Preparation of Strategic Action Plan for the Development of Water Resources in the Komadugu Yobe Basin,* Yobe State N*igeria.* The project assignment focused on the assessment of existing farming systems and the organisation of the overall agricultural production; farm size and cropping patterns; constraints for intensification; marketing; extension and support services and determine the farming and cropping system.

- Assessment of crop water requirement for efficient utilization of water resources and design irrigation water requirement for the specific agro-climatic zone considering all factors affecting evapotranspiration such as climatic factor, crop characteristic and management practice.
- Studied the current agricultural practices and crop production and evaluated the current profitability of non-irrigated agriculture.
- Proposed alternative cropping patterns, cropping calendar under irrigation and assessed the economic viability and profitability;
- Determined optimal utilization of the available water supply, determined water requirements for the crops and cropping patterns selected, using standard methods.
- Provided Cropping yield projection for the proposed irrigation command area and the proposed cropping pattern.
- Prepared current demands and projections of future agricultural/irrigation water requirements by location.

{S} **RELEVANT EXPERTISE ACQUIRED:**

i. Experience in the design, conduct and analysis of intercropping systems of the semi-arid and moist savanna eco-regions.

ii. With experience in crop water use studies, drought tolerance assessment, water and air pollution studies, light use/shade adaptation, growth analysis, root and soil fertility studies.

iii. Expertise for the installation, retrieval, processing and analysis of weather data of weather instruments and especially from Automatic Weather Stations and other computer based programmes for field and laboratory studies of crop growth and development as well as simulation studies.

iv. Working knowledge of instruments like the Time Domain Reflectometry (TDR), Neutron Probe, Radiation Sensors, Tensiometer, All types of Lysimeter, Infiltrometers, Leaf Area Meters, Thermocouples, Image Analysers and Dataloggers.

v. Agricultural systems simulation modeling expert with experience on the use of GIS.

International Conference attended/organised with dates:

i. The TTMI-project and the "PICNIC" model: an internal evaluation of approaches and results and of prospects for TTMI-units held at ICRAF, Nairobi, Kenya and sponsored by the Wageningen Agricultural University, Wageningen, The Netherlands [1994].

ii. Wind Erosion in Africa and West Asia: Problems and Control Strategies. Conference held at ICRISAT Centre, Niamey, Niger [April, 1999].

iii. Workshop on the Use of Models in Agriculture, IFDC-COSTBOX, IAR, ABU, April 9-12, 2001, Zaria, Nigeria.

iv. Strengthening Agricultural Research Capacity to Generate Technologies that Adapt to Climatic Shifts and Variability in Nigeria's Dry Belt-Collaborators' Exploratory Workshop START (SysTem for Analysis, Research and Training)/USCCSP (United States Climate Change Science Program), November 10-11, 2004, IAR, ABU, Zaria, Nigeria

v. US-Nigeria International Workshop: Strategies for Managing Drought using Climate Forecasts and Local Knowledge (National Science Foundation, USA), ICTC Conference Center, Abubakar Tafawa Belawa University, Bauchi, Nigeria. November 13-16, 2007, Bauchi, Nigeria.

vi. The International Workshop on Agromet and GIS Applications for Agricultural Decision Making. Sponsored by WMO CAgM/NCAM/ APCC/ OSGeo/PKNU/DU. Hosted by Korea Meteorological Administration (KMA), December 5-9, 2016, MSTAY Hotel, Jeju, South Korea

II. {T} Pulications

(a) Articles that have already appeared in Refereed Conference Proceedings

1. **K.O. Oluwasemire** (1999). Some aspects of rainfall trends and their implications on soil and

crop management practices in northwestern Nigeria. Proceeding of the Soil Science Society of Nigeria Conference (Eds. O. Babalola, U. Umoti and A.E. Isenmila), November 1999, Benin, Nigeria. pp 244-254.

2. Jayeoba, J.J. Owonubi, **K.O. Oluwasemire** and N.E. Uzokwe (2002). Simulation modeling: A decision support tool for Nigerian agricultural production environment. In: Salako, F.K., S.T.O. Lagoke, A.B.J. Aina, D. Eruvbetine and O.A. Dipeolu (eds.). Enhancing Agricultural Resource Base for Youth Employment, Industrial Development and Export. Proceedings of the 35th Annual Conference of Agricultural Society of Nigeria (ASN) held at the University of Agriculture, Abeokuta, Nigeria. September 16-20, 2001. Pp 179-187.
3. **K.O. Oluwasemire,** S.O. Alabi and I.Y. Amapu (2002). Nitrogen fertilizer use of maize and ground water pollution under rainfed conditions in the northern Guinea savanna of Nigeria. In: Umoh, U.J., S.E. Yakubu, H.C. Nzelibe, J. Hallandendu, I.H. Anyanwu and E.C. Okolocha (eds.), 1st National Conference on Environmental Degradation: Human Dimensions and Health Implications. Institute for Development Research, ABU, Zaria, Nigeria. 12th-15th November 2002. Pp 130-137.
4. S.O. Alabi, S.O. Ajala, S.G. Ado, F.A. Showemimo, L.O. Omoigui and **K.O. Oluwasemire** (2002). Improvement of maize for low nitrogen tolerance: Strategy for minimizing potentials for N-pollution in the northern Guinea Savanna of Nigeria. In: Umoh, U.J., S.E. Yakubu, H.C. Nzelibe, J. Hallandendu, I.H. Anyanwu and E.C. Okolocha (eds.), 1st National Conference on Environmental Degradation: Human Dimensions and Health Implications. Institute for Development Research, ABU, Zaria, Nigeria. 12th-15th November 2002. Pp 138-151.
5. **K.O. Oluwasemire,** S.O. Alabi and S.O. Olaofe (2003). Screening of cotton (*Gossypium hirsutum* L) for tolerance to early season drought. In: Swanepoel A. (Chief Editor), Proceedings of the World Cotton Research Conference-3; Cotton Production for the New Millennium, Cape Town, South Africa. March 9-13, 2003. Pp 743-752.
6. S.O. Alabi, A.A. Adeoti, O. Alabi and **K.O. Oluwasemire** (2003). Inheritance of resistance in cotton cultivars to the HVI isolate and a mixture of two races of *Xanthomonas campestris pv malvacearum* (Smith) Dye in Nigeria. In: Swanepoel A. (Chief Editor), Proceedings of the World Cotton Research Conference-3; Cotton Production for the New Millennium, Cape Town, South Africa. March 9-13, 2003. Pp 275-281.
7. **K.O. Oluwasemire** (2006). Rainwater composition and acidity at three sites in Northern Nigeria in 2004. In: Umoh, U.J., Oluwasemire, K.O., Yakubu, S.E., Abdullahi, I.O., Umoh, V.J. and E.C. Okolocha (Eds.). Publication in the Proceeding of the 3rd Annual National

Conference (Awka 2006) of the Society for Occupational Safety and Environmental Health (SOSEH), Nnamdi Azikwe University, Awka, Anambra State, Nigeria. 8th – 11th November 2006. pp. 46-51.

8. H.M. Lawal, J.O. Ogunwole, **K.O. Oluwasemire** , E.O. Uyovbisere and A.B. Lawal (2007). Effect of biodiversity on selected soil properties in a managed ecosystem of the Northern Guinea savanna. In: Uyovbisere, E.O., Raji, B.A., Yusuf, A.A., Ogunwole, J.O. Aliyu, L. and Ojeniyi, S.O. (Eds.). Proceeding of the 31st Annual Conference of the Soil Science Society of Nigeria, Ahmadu Bello University, Zaria, Kaduna State, Nigeria. 13th -17th November 2006.pp 323-328.
9. A.R. Sanda, J.O. Ogunwole, **K.O. Oluwasemire a**nd B.A. Raji (2007). Effects of drainage water recycle and irrigation scheduling on soil properties and yield of Tomato under a high water table condition in Northern Nigeria. In: Uyovbisere, E.O., Raji, B.A., Yusuf, A.A., Ogunwole, J.O. Aliyu, L. and Ojeniyi, S.O. (Eds.). Proceeding of the 31st Annual Conference of the Soil Science Society of Nigeria, Ahmadu Bello University, Zaria, Kaduna State, Nigeria. 13th -17th November 2006.pp 225-232.
10. B.M. Sani and **K.O. Oluwasemire** (2007). Water use of maize in response to planting density and irrigation. In: Uyovbisere, E.O., Raji, B.A., Yusuf, A.A., Ogunwole, J.O. Aliyu, L. and Ojeniyi, S.O. (Eds.). Proceeding of the 31st Annual Conference of the Soil Science Society of Nigeria, Ahmadu Bello University, Zaria, Kaduna State, Nigeria. 13th -17th November 2006.pp 239-246.
11. B.M. Sani, **K.O. Oluwasemire** and M.M. Jaliya (2007). Soil water storage pattern as affected by irrigation regime and maize plant. In: Uyovbisere, E.O., Raji, B.A., Yusuf, A.A., Ogunwole, J.O. Aliyu, L. and Ojeniyi, S.O. (Eds.). Proceeding of the 31st Annual Conference of the Soil Science Society of Nigeria, Ahmadu Bello University, Zaria, Kaduna State, Nigeria. 13th -17th November 2006.pp 252-258.
12. E.O. Uyovbisere, B.A. Raji, **K.O. Oluwasemire,** W.B. Malgwi, T. Kparmwang, B.D. Tarfa, J.O. Ogunwole,, I.Y. Amapu, E.Y. Oyinlola, D.T. Tagwai, A.A. Yusuf, A.B. Momodu and A.B.I. Igboanugo (2007). Evaluation of the effects of various sand dune stabilization structures on the fertility and productivity of the Gidan Kaura sand dune formation in Sokoto State. In: Uyovbisere, E.O., Raji, B.A., Yusuf, A.A., Ogunwole, J.O. Aliyu, L. and Ojeniyi, S.O. (Eds.). Proceeding of the 31st Annual Conference of the Soil Science Society of Nigeria, Ahmadu Bello University, Zaria, Kaduna State, Nigeria. 13th -17th November 2006.pp 461-475.
13. **K.O. Oluwasemire** (2008). Contributions of agricultural land use to climate change through

gaseous emissions. In: Umoh, U.J., Oluwasemire, K.O., Yakubu, S.E., Abdullahi, I.O., Umoh, V.J. and E.C. Okolocha (Eds.). Publication in the Proceeding of the 4th Annual National Conference (Zazzau 2008) of the Society for Occupational Safety and Environmental Health (SOSEH), Ahmadu Bello University, Zaria, Kaduna State, Nigeria. 11th – 14th March 2008. pp. 64-67.

14. **K.O. Oluwasemire,** A.A. Makinde and O.J. Egwu (2009). Growing Degree Days and Photothermal Units Accumulation of Tomato (Lycopersicon esculentum) Genotypes as Influenced by Dates of Sowing. In: Bala, M.G., Auwalu, B.M. and Manga, A.A. (Eds.). Proceeding of the 27th Annual Conference of the Horticultural Society of Nigeria (HORTSON), Royal Tropicana Hotel, Niger Street, Kano, Kano State, Nigeria. 11th -16th October 2009.pp 119-122.
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