

CURRICULUM VITAE

Professor Victor Okechukwu Chude

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EDUCATION

September, 1983	Ph D (Agronomy) University of Ibadan, Nigeria
September, 1980	M. Sc. (Agronomy) University of Ibadan, Nigeria
June, 1976	B. Sc. (Plant Nutrition – 2nd Class Upper Division) University of Nigeria Nsukka, Nigeria

PROFESSIONAL EXPERIENCE

2018 to date	Registrar/Chief Executive Officer Nigeria Institute of Soil Science, Nigeria.
2015 to 2017	Vice President, Sixth Plenary Assembly of GSP Global Soil Partnership, Food and Agriculture Organisation of the United Nations, Rome.
2015 to May, 2022	Chairperson, African Soil Partnership (AfSP) Global Soil Partnership, Food and Agriculture Organisation of the United Nations, Rome.
2015 to date	FAO/GSP Focal Person in Nigeria Global Soil Partnership, Food and Agriculture Organisation of the United Nations, Rome.
2015 to date	Coordinator of University of Columbia's Agcenter SoilDoc activities in Nigeria.
2015 to 2017	Adjunct Senior Research Scientist at the Agriculture and Food Security Center, Earth Institute, Columbia University, United States of America.
2009 to date	Head of Component, Agricultural Productivity Enhancement National Programme for Food Security, Federal Ministry of

Agriculture and Rural Development, Nigeria.

2002 to 2009	National Facilitator, Soil Fertility Initiative (SFI) National Programme for Food Security, Federal Ministry of Agriculture and Rural Development, Nigeria.
1995 to 2002	Member of the University Senate Ahmadu Bello University, Zaria, Nigeria.
1994 to 2000	Head of Department of Soil Science Institute for Agricultural Research/Faculty of Agriculture, Ahmadu Bello University, Zaria, Nigeria.
1987 to 1994	Senior Lecturer, Department of Soil Science, Institute for Agricultural Research/Faculty of Agriculture, Ahmadu Bello University, Zaria, Nigeria.
1983 to 1985	Principal Research Officer Cocoa Research Institute of Nigeria, Ibadan, Nigeria.
1980 to 1983	Senior Research Officer Cocoa Research Institute of Nigeria, Ibadan, Nigeria.
1978 to 1979	Research Officer-in-Training Cocoa Research Institute of Nigeria, Ibadan, Nigeria.
1977 to 1978	Agricultural Officer Tomas Irrigation Project, Kano State Ministry of Agriculture, Danbata, Kano State, Northern Nigeria.
1976 to 1977	Lecturer in Chemistry, English Language and Soil Science. Institute of Agriculture, Kaba, Ahmadu Bello University, Zaria, Nigeria.

HONOURS AND AWARDS

- **Distinguished Service Award**, Soil Science Society of Nigeria – March, 2020.
- **Fellow** – Soil Science Society of Nigeria, 2007
- **Distinguished University Professor of Soil Science**, Ahmadu Bello University Zaria, Nigeria - 1993.
- **Research Service Award** – Joint Recipient (with E. N. O. Iwuafor and I.Y. Amapu) of the Scientific, Technical and Research Commission, Organization of African Unity (OAU, Ile-Ife - Nigeria) - 1991.
- **Academic Meritorious Certificate**, University of Nigeria Nsukka, Nigeria - 1976.
- **Best Graduate of Soil Science Department**, University of Nigeria, Nsukka, Nigeria - 1975/76.

PROJECT AND RESEARCH GRANTS

- Undergraduate Student Scholarship, Anambra State Government, Nigeria, 1972 – 1976
- Supported Federal Ministry of Agriculture and Rural Development (FMARD) to Improve the Enabling Business of Agriculture in Nigeria: AGRA Grant, 2017/2018 (\$100,000)
- Strengthening Fertilizer Systems Partnerships for Production of Balanced Fertilizer Blends in Niger and Kaduna States, Nigeria: AGRA Grant, 2018 – 2022 (\$672,270)

TEACHING RESPONSIBILITIES

- Soil Fertility and Mineral Nutrition of Crops - 400 Level.
- Mineral Nutrition of Crops – Postgraduate level.
- Advanced Soil Fertility – Postgraduate level.
- Advances in Fertilizer Technology – Postgraduate level.

RESEARCH EXPERIENCE

- **Soil genesis and Classification:**
 - i. Characterization of soils of North-western Nigeria
- **Soil fertility and land capability/suitability evaluation:**
 - i. Nutrient interaction trials on cereals
 - ii. Soil fertility management under continuous cultivation
 - iii. Effect of herbicide on nitrification of soil
 - iv. Maize response to zinc fertilizer in northern Nigeria
 - v. Soil test calibration for N, P, and K in relation to maize production
 - vi. Source, rate and method of application of nitrogen fertilizer on maize production
 - vii. Field evaluation of NPK 27:13:13 in North-western Nigeria
 - viii. The role of micro-organisms in the solubilization of rock phosphate
 - ix. Development of a multi-purpose extractant for the prediction availability of P, K, Mg, and Zn in soils of the Nigerian savannah
 - x. Evaluation of different compound fertilizers formulated from Sokoto rock phosphate
 - xi. Potentials of millet thresh waste for the production of maize in the savannah region
 - xii. Boron requirement of tomato (*Lycopersicon esculentum* Mill.)
 - xiii. Evaluation of different compound fertilizer formulations using maize as test crop
 - xiv. Evaluation of Agrolizer liquid fertilizer on maize, sorghum, groundnut, and cowpea

- xv. Evaluation of Sokoto phosphate rock for direct application in the Nigerian savanna
 - xvi. Application of Decision Support Systems for combating Nutrient Depletion: Simulating and Validating Nutrient Balance in key crops
 - xvii. Increasing the efficiency of soil and applied phosphate by crops in acid soils through cultural practices
 - xviii. Improving the efficiency of SSP on soils of the Nigerian savanna
- **Land and soil degradation, remediation and reclamation:**
 - i. Reclamation of degraded soils

PROFESSIONAL AFFILIATIONS

- International Union of Soil Sciences Council **Member** of Commission 3.SoiIs4Africa
- International Union of Soil Sciences Council; **Member** Division 3, Commission 3.3 1986 – 2021.
- International Union of Soil Sciences – **Member**, 1979 to date.
- Soil Science Society of Nigeria, **President** – October 2003 to March 2018;
- British Society of Soil Sciences **Member** - 2012 to date
- National Fertilizer Solutions Association of America – **Member**, 1986 to date.
- International Society of Plant Nutrition – **Council Member**, 2002 to 2007.
- Intergovernmental Technical Panel on Soil, Global Soil Partnership, FAO, Rome, **Expert Member** – June 2013 to 2016.
- Intergovernmental Technical Panel on Soil Editorial Board of Status of World Soil Resources Report, FAO – **Member** – 2015.
- Sub-Technical Committee on Fertilizer Procurement, Federal Ministry of Agriculture, Water Resources and Rural Development, Lagos – **Member**
- Inter-Ministerial Committee on Water hyacinth, Federal Ministry of Science and Technology, Lagos – **Member**
- Standard Organization of Nigeria Technical Committee on Fertilizer and Agro-allied products – **Member**, 1998 to 2006.
- Science Association of Nigeria (SAN), Member – 1981 to date;
- **Editor**, Science Association of Nigeria Bulletin – 1981 – 1983.

PUBLICATIONS

Books

1. Ogunkunle, A. O. and **Chude, V. O.** (2018). Restoring Soils of the Sub-Saharan Africa for achieving SDGs In: Lal, R., Horn, R. and Kosaki, T. (Eds) Soil and Sustainable Development Goals Pp 92 – 101. CATENA Soil Sciences Schweizerbart Science Publishers. ISBN: 978 -3-510-65425-3
2. Reicosky, D., Slater, B. K., Wills, S., Roecker, S., Williams, C., Murphy, B., Fortuna, A., Barry, A., Bhowmik, A., Cogger, C., Bakshi, S., Banik, C., He, Z., Campbell, E. E., Field, J. L., Paustian, K., Strock, J., Mitchell, J. P., **Chude, V. O.**, ... & Claudio, Z. (2018). Managing Soil health for Sustainable agriculture Volume 2: Monitoring and Management (Burleigh Dodds Series in Agricultural Science). Burleigh Dodds Science Publishing. ISBN: 13: 978 – 1786761927
3. Luca, M., Dan, P., Neil, M., Seyed, K. A., Julio, A., Abdullah, A., Dominique, A., Miikha, S. A., Mohammed, B., Isaurinda, B., Helaina, B., Marta, C. A., **Chude, V. O.**, Elsiddig, A. E., David, E. V., Jon, H., Cario, R. H., Suk, Y. H., Pavel, K.,...Christopher, W. (Eds). FAO and ITPS (2015) Status of the World's Soil Resources (SWSR) – Main Report. Food and Agriculture Organization of the United Nations and Intergovernmental Technical Panel on Soils, Rome, Italy
4. Montanarella, L., Pennock, D., Mckenzie, N., Alavipanah, S. K., Alegre, J., Alshankiti, A.,...Yemefack, M. & Zhang, G. (2015). The Status of the World's Soil Resources (Technical Summary). Food and Agriculture Organization of the United Nations, 98 p., 978-92-5-108960-6
5. Ogunkunle, A. O., **Chude, V. O.**, Dos Santos, I., Mamo, T., Paterson, G., Soumare, N., Wiese, L. and Yemefack, M. (2015). Regional Assessment of Soil changes in Africa South of the Sahara. In: FAO and ITPS (2015) Status of the World's Soil Resources (SWSR) Food and Agriculture Organization of the United Nations and Intergovernmental Technical Panel on Soils, Rome, Italy Pp 242 – 286.
6. **Chude, V. O.**, Olayiwola, S. O., Osho, A. O. and Dauda, C. K. (Eds) (2012). Fertilizer Use and Management Practices for Crops in Nigeria (4th ed.). Federal Ministry of Agriculture and Rural Development, Nigeria
7. **Chude, V. O.**, Malgwi, W. B., Amapu, I. Y. and Ano, A. O. (2004) - Manual on Soil Fertility Assessment, Federal Fertilizer Department/National Special Food Security Programme
8. Aduayi, E. A., **Chude, V. O.**, Adebusuyi, B. A. and Olayiwola, S. O. (2002).

Refereed International and Local Journals

1. **V. O. Chude**, E. E. Oku, G. I. C. Nwaka, and M. S. Adiaha. (2020). Soil compaction assessment as a manipulative strategy to improve soil biodiversity: an approach for meeting SDG two and six. *Land Reclamation and Water Management*, (1), 131 - 143.
2. Adiaha, M. S., Oku, E. E., **Chude, V. O.**, Nwaka, G. I. C. and Ukem, B. (2019). Predicting Soil Erosion with estimation of Saturated Hydraulic Conductivity from Soil Porosity: A Strategy for meeting the SDG Goals 2 and 6. *World Scientific News*, 136, 194-225.
3. Adiaha, M. S., Effiom, E. O., **Chude, V. O.** and Bassey, U. (2019). Evaluating Hydraulic Properties of Soils: A Management Strategy towards Fighting The 21st Century Flood Disaster Land Reclamation and Water Management (In Press).
4. Amapu I.Y., **Chude V.O.** and Tarfa B.D. (2018). Fertilizer Recommendation for Maize, Sorghum, Millet, Cowpea, Soybean and Cotton in Nigeria. In: Bationo, A., Ngaradoun D., Youl S., Lompo F., Fening J. (eds) *Improving the Profitability, Sustainability and Efficiency of Nutrients Through Site Specific Fertilizer Recommendations in West Africa Agro-Ecosystems*. Springer, Chams
5. Nafiu, K. A., **Chude, V. O.** and Oworu, O. O. (2018). The Study of Morphological Characteristics, Dry Matter Production and Yield of Four Sugarcane (*Saccharum officinarum* L.) Varieties in South-Western Nigeria, *Journal of Experimental Agriculture International* 22(5):1-7.
6. Nafiu, K. A., **Chude, V. O.** and Ezendu, C. O. (2017). Field Evaluation of Foliar Blend Micronutrient Fertilizer on Cotton (*Gossypium hirsutum* L.) Production in Katsina State, Nigeria, *Journal of Experimental Agriculture International* 17(2): 1-8.
7. Nafiu, K. A., **Chude, V. O.** and Ezendu, C. O. (2017). Field Evaluation of Foliar Blend Micronutrient Fertilizer on Cotton (*Gossypium hirsutum*) Production in Katsina State, Nigeria. *Journal of Experimental Agriculture International*, 17(2), 1 - 8.
8. Nwaneke, P. K. and **Chude, V. O.** (2017). Are the Homestead Gardens a Possible Solution to Combating Malnutrition in Nigeria?. *European Journal of Nutrition & Food Safety*, 7(4), 199-208
9. Montanarella, L., Pennock, D. J., McKenzie, N., Badraoui, M., **Chude, V. O.**, Baptista, I., Mamo, T., Yemefack, M., ... & Vargas, R. (2016). World's soils are under threat. *SOIL*, 2, 79-82.
10. Nafiu, K. A., **Chude, V. O.** and Ezendu, C. O. (2016). Effect of Bio-soil Conditioner and NPK 15:15:15 Fertilizers on the Growth and Yield of Maize (*Zea mays* L.) in North-Central of Nigeria, *Journal of Experimental Agriculture International* 14(2): 1-7,

11. Nwaneke, P. K. and **Chude, V. O.** (2015). Socioeconomic Impact of Climate Change in Northern Nigeria. <https://www.researchgate.net> Pp 96 – 109
12. Nafiu, A. K., Abiodun, M. O., Okpara, I. M. and **Chude, V. O.** (2012). Soil fertility Evaluation: a potential tool for predicting Fertilizer requirement for Crops in Nigeria. *African Journal of Agricultural Research* Vol. 7(47), Pp. 6204-6214,. DOI: 10.5897/AJAR12.210 ISSN 1991-637X ©2012 Academic Journals.
13. Umeugochukwu, O. P., **Chude, V. O.** and Ezeaku, P. (2012). Degradation effect of Palm oil mill effluent (POME) on Physical and Chemical Properties of the soils of Uga, South eastern, Nigeria. *Nigerian Journal of Soil Science*, 22 No.1 pp.18-25.
14. Umeugochukwu, O.P., Ezeaku, P.I., **Chude, V. O.** and Nnaji, G. U. (2012). Impact of Soil erosion on Land degradation in Uga Southeastern Nigeria. *Nigerian Journal of soil Science*, Vol.22 No.1 pp.26 - 36
15. Nafiu, A. K., Togun, A. O., Abiodun, M. O. and **Chude, V. O.** (2011). Effects of NPK Fertilizer on Growth, Dry matter production and Yield of Eggplant in Southwestern Nigeria. *Agriculture and Biology Journal of North America* doi: [10.5251/abjna.2011.2.7.1117.1125@2011](https://doi.org/10.5251/abjna.2011.2.7.1117.1125@2011).
16. Raji, B. A., Malgwi, W. B., Berding, F. R. and **Chude, V. O.** (2011). Integrating Indigenous knowledge and Soil Science approaches to detailed Soil survey in Kaduna State, Nigeria - *Journal of Soil Science and Environmental management*, 2(3): pp66 – 73.
17. Oyinola, E. Y. and **Chude, V. O.** (2010). Status of Available Micronutrients of the Basement Complex Rock “Derived Alfisols in Northern Nigeria Savanna. *Tropical and Subtropical Agroecosystems* 12 (2): 229 – 237.
18. Yaro, D. T., Kparamwang, T., Raji, B. A. and **Chude, V. O.** (2008). Extractable Micronutrients Status of Soils in a Plinthitic Landscape at Zaria, Nigeria, *Communications in Soil Science and Plant Analysis*, 39:15-16, 2484-2499, DOI: 10.1080/00103620802292913
19. Abdu, N., Yusuf. A.A., Abdulkadir, A., Arunah, U. L., **Chude, V.O.** and Pam, S. G. , (2007). Zinc Soil Test Calibration based on 0.1 N HCl Extractable Zinc and Cation Exchange Capacity from Upland Soils of Northern Nigeria. *Journal of Agronomy*, 6: 179-182.
20. Oikeh, S. O., **Chude, V. O.**, Kling, J.G. and Horst, W. J. (2007). Comparative productivity of Nitrogen-use efficient and Nitrogen-inefficient maize cultivars and traditional grain Sorghum in the moist Savanna of West Africa. *African Journal of Agricultural Research* Vol. 2(3), pp. 112-118, <http://www.academicjournals.org/AJAR>
21. Yusuf, A., Eben-Johnson, A., **Chude, V. O.** and Amapu, I. (2007). Soil Characteristics and the Performance of sorghum (*Sorghum bicolor* (L) Moench) on tin mine spoils of the Jos Plateau, Nigeria. In: Bationo, A., Waswa, B., Kihara, J., Kimetu, J. (eds) *Advances in Integrated Soil Fertility Management in sub-Saharan Africa: Challenges and Opportunities*, 619–628. Springer, Dordrecht DOI https://doi.org/10.1007/978-1-4020-5760-1_59

22. Jayeoba, O.J., Tabo, R., Owonubi, J. J. and **Chude, V. O.** (2006). Evaluation of APSIM to simulate Soil water balance of a long term Sorghum based cropping system in Sudano-Sahelian zone of Nigeria. *Savannah Journal of Agriculture*
23. Yaro, D. T., Kparmwang, T., Raji, B. A. and **Chude, V. O.** (2006). The Extent and Properties of Plinthite in a Landscape at Zaria, Nigeria. *International Journal of Soil Science*, 1: 171-183. DOI: 10.3923/ijss.2006.171.183
24. Odiete, I., **Chude, V. O.**, Ojeniyi, S. O. and Okozi, A. A. (2005). Responses of maize to nitrogen and phosphorus sources in guinea savanna zone of Nigeria *Nigerian Journal of Soil Science*, 15: 90-95
25. Ukem, B. O., **Chude, V. O.**, Amapu, I.Y. and Raji, B. A. (2005). Response of tomato to NPK fertilizer and foliar application of algifol nutrient solution in a Nigerian Savanna soil. *Journal of Agriculture, Forestry and the Social Sciences* Vol. 3 (2): pp.78-85.
26. Ukem, B. O., **Chude, V.O.**, Amapu, I.Y., Raji, B. A. and Osaka, J. (2005). Performance of tomato to combined application of foliar Algifol and granular NPK fertilizers on a typic haplustalf of Nigerian savanna. *Global Journal of Agricultural Sciences* Vol. 4(2): 129-133.
27. Yusuf, A.A., Abdu, N., **Chude, V. O.**, Yusuf, H. A. and Pam, S. G. (2005). Response of maize (*Zea mays* L.) to zinc fertilization in relation to Mehlich 1 extractable zinc in Northern Nigeria *Nigerian Journal of Soil Research*, 6:32-41
28. Oyinlola, E. Y. and **Chude, V. O.** (2004). Response of Irrigated Tomato (*Lycopersicum lycopersicon* Karst) to Boron Fertilizer: 1. Yield and Fruit Quality. *Nigerian Journal of Soil Research* Vol.5: 53-61 DOI: 10.4314/njser.v5i1.28390
29. Yusuf, A. A., Amapu, I. Y., Eben-Johnson, A. F. and **Chude, V. O.** (2004). The Characteristics and Fertility Status of Tin Mine Spoils of the Jos Plateau, Nigeria. *Nigerian Journal of Soil Research*, 5: 44 - 52 DOI: 10.4314/njser.v5i1.28389
30. Jibrin, J.M., **Chude, V.O.**, Daudu, C. K. and Miko, S. (2003). The Effect of Phosphate Application to Cover Crops on the Yields of Succeeding Maize (*Zea mays* L.) on a Kanhaplic Haplustalf in Northern Guinea Savanna of Nigeria. *Nigerian Journal of Soil and Environmental Research*, Vol.4: 25-34 DOI: 10.4314/njser.v4i1.28379
31. Oikeh, S. O., Carsky, R. J., A.O., Kling, J. K. **Chude, V. O.** and Horst, W. J. (2003). Differential N uptake by maize cultivars and Soil nitrate dynamics under N fertilization in West Africa. *Agriculture Ecosystem and environment*, 100 (1), 181-191
32. Yusuf, A. A., **Chude, V. O.** and Janssen, B. H. (2003). Response of rice (*Oryza sativa* L.) to phosphate fertilizers varying in solubility. *African Soils* 33, p. 57 - 72.
33. Yusuf, A.A., **Chude, V. O.** and Janssen, B. H. (2003). Substitution rates of N, P and K in Farmyard manure on an Alfisol in northern Guinea Savanna of Nigeria. *Journal Of Agriculture and Environment for International Development* (Italia). 97(1/2) p. 93-105.
34. Aduayi, E. A., **Chude, V. O.**, Adebusuyi, B. A. and Olayiwola, S.O. (2002). Fertilizer use and Management Practices for crops in Nigeria- Federal Ministry of Agriculture and Rural Development, Abuja, Nigeria.
35. Edoga, R. N., Owonubi, J. J., **Chude, V.O.** and Edoga, M.O. (2002). Evaluation of Different methods of estimation potential evapotranspiration at Samaru Northern Guinea savanna zone of Nigeria. *Nigerian Journal of Soil Research* Vol.3() pp.11-16.

36. Jibrin, J. M., **Chude, V. O.**, Horst, W. J. and Amapu, I. Y. (2002). Effect of Cover crops, Lime and Rock Phosphate on Maize (*Zea mays* L.) in an Acidic Soil of Northern Guinea Savanna of Nigeria. *Journal of Agriculture and Rural Development in the Tropics and Subtropics* Vol 103, No 2 pages 169 –176.
37. Jibrin, J. M., **Chude, V. O.**, Shaviv, A. and Horst, W. J. (2002). Amberlite and carboxyl-methyl-cellulose mixture as on-field multi-nutrient extraction device. *Nigerian Journal of Soil Research* Vol.3(2002) pp.23-26.
38. Kamh, M., Abdou, M., **Chude, V.O.**, Wiesler, F. and Horst, W. J. (2002). Mobilization of phosphorus contributes to positive rotational effects of leguminous cover crops on maize grown on soils from Northern Nigeria *Journal of Plant Nutrition and Soil Science*, 165, (5) 566-572.
39. Malgwi, W.B., **Chude, V. O.**, Kparmwang, T. and Raji, B. A. (2002). Salinity and sodicity status of irrigated soils and irrigation and drainage waters of Jakare and Kano River Project in Semi-arid Nigeria. *Nigerian Journal of Soil Research* Vol.3() pp.63-71.
40. Odunze, A.C., Iwuafor, E.N.O. and **Chude, V. O.** (2002). Maize/Herbaceous Legume Inter-crops and soil properties in the Northern Guinea Savanna Zone, Nigeria. *Journal of Sustainable Agriculture*, 20 (1), 15-25.
41. Oyinola, E. Y. and **Chude, V. O.** (2002). Test methods for available Soil boron in some selected soils of Northern Nigeria. *Nigerian Journal of Soil Research* Vol.3() pp.78-84.
42. Babalola, O. A., **Chude, V. O.** and Adu, J. K. (2001). Greenhouse Study of Agronomic efficiency of microbial inoculated rock phosphate in soya bean production. *African Soils*, 31 (1) 65 – 72.
43. **Chude, V.O.** and Oyinola, E.Y. (2001). Yield and Nutritional qualities of two tomato (*Lycopersicon lycopersicum* Karst) varieties as influenced by boron fertilization in a tropical environment. In: Horst W.J. *et al.* (eds) *Plant Nutrition. Developments in Plant and Soil Sciences*, 92. Springer, Dordrecht
44. **Chude, V. O.**, Amapu, I. Y., Yusuf, A. A., Singh, U., Breman, H. and Dejean, P. (2001). Validation of CERES-maize model under sub-humid tropical conditions. *Nig. J. Soil Res.* 2, 37-42.
45. Horst, W. J., Kamh, M., Jibrin, J. M. and **Chude, V. O.** (2001). Agronomic measures for increasing P Availability to Crops. *Plant and Soil* 237, 211-223
46. Kparmwang, T., Raji, B. A., Odunze, A.C. and **Chude, V. O.** (2001). Properties, Classification and Agricultural potentials of Ustults, and Tropepts on a Sedimentary toposequence in the Benue. *Nig. J. Soil Res.* 2, 58-65.
47. Ogunlela, V., **Chude V. O.** and Negedu, S. (2001). Response of Tropicallly adapted wheat cultivars to Nitrogen rate and timing, *Tropical Science* - London, Blackwell Scientific
48. Ogunwole, J. O., I. E. Esu, T. Kparmwang and **V. O. Chude** (2001). Effects of Prolonged shaking periods and contents of Iron oxides on dispersion of plinthitic soil in Nigeria, *Communications in Soil Science and Plant Analysis*, 32:13-14, 2293-2306, DOI: 10.1081/CSS-120000284
49. Oyinola, E.Y. and **Chude, V. O.** (2001). Effect of Boron fertilizer on Yield and some Biochemical Properties of ripe tomato fruits. *African Soils*, 31 (2), 3 – 14.

50. Raji, B. A., **Chude, V. O.** and Esu, I. (2001). DTPA, 0.1N HCl and total Cu and Zn in Sand dune soil profile of Nigeria Semi-arid savanna. *African Soils*, 31 (1), 50 – 64.
51. Raji, B. A., **Chude, V. O.** and Esu, I. E. (2001). Phosphate sorption Characteristics of three stabilized Sand dune Soils in Northern Nigeria. *Samaru J. Agric Res.* 17, 25 – 34.
52. Tarfa, B. D., **Chude, V. O.** and Iwuafor, E.N.O. (2001). Effect of the Complementary use of millet threshed waste, cow dung and inorganic fertilizer on Growth and Yield of maize. *African Soils*, 32 (2), 52 – 65.
53. Tarfa, B.D., Iwuafor, E.N.O. and **Chude, V. O.** (2001). Effect of Combined application of Millet threshed waste, Cow dung and Fertilizer on maize nutrient concentration and uptake. *African Soils*, 32 (2), 42 – 51.
54. Tarfa, B. D., Uyovbisere, E. O., **Chude, V. O.**, Raji, B. A. and Yaro, D.T. (2001). Effect of the complementary use of foliage of *Azadirachta indica*, *Parkia biglobosa* and NPK on yield and nutrients uptake of maize in a savanna soil. *Nig. J. Soil Res.* Vol.2 43-50.
55. Amapu, I.Y., **Chude, V. O.**, Iwuafor, E. N. O. and Babalola, O. A. (2000). Soil and Fertilizer factors influencing the utilization of Phosphate in the sub-humid Nigerian Savanna. *Nig. J. Soil Sci.* 12, 67-80.
56. Babalola, O. A., **Chude, V.O.**, Iwuafor, E. N.O. and Adu, J. K. (2000). Incidence of phosphate solubilizing micro-organisms in an Alfisol in North Western Nigeria. *Nigerian Journal of Soil Research* Vol.1 pp.23-28
57. Chinke, N. M., Iwuafor, E.N.O., Sanginga, N. and **Chude, V. O.** (2000). Influence of Phosphorus and Molybdenum on the infection of cowpea (*Vigna unguiculata* (L.) Walp) by *Striga gesnerioides* and *Alectra vogelii*. *Nig. J. Soil Sci.* 12, 58-66.
58. **Chude, V. O.**, Iwuafor, E.N.O., Amapu, I.Y. and Asiribo, O. E. (2000). Prediction of available soil potassium for maize using chemical extractants. *Nig. J. Soil Res.* 1:12-16.
59. **Chude, V. O.** and Bala, A. (2000). Differential Susceptibility of Maize (*Zea mays* L.) cultivars to zinc deficiency in Nigeria. *Nigerian J. Science.* 10 . 22-28.
60. Daudu, C. K., **Chude, V. O.**, Iwuafor, E. N. O., Amapu, I. Y. and Asiribo, O. E. (2000). Prediction of available soil potassium for maize using chemical extractants. *Nigerian Journal of Soil Research* Vol.1 pp.12-16
61. Kparmwang, T., **Chude, V. O.**, Raji, B. A. and Odunze, A. C. (2000). Extractable micronutrients in some soils developed on sandstone and shale in the Benue Valley, Nigeria. *Nig. J. Soil Res.* 1, 42-48.
62. Malgwi, W. B., Ojanuga, A. G., **Chude, V. O.**, Kparmwang, T. and Raji, B. A. (2000). Management significance of the morphology and physical properties of some soils at Samaru, Zaria, Nigeria. *Nig. J. Soil Res.* 1, 58-64.
63. Ogunlela, V. B., **Chude, V. O.** and Negedu, S. (2000). Response of two irrigated wheat (*Triticum aestivum* L.) varieties to row spacing and nitrogen supply: Yield, Yield Components and N Uptake. *Journal of Agriculture in the Tropics and*

- Subtropics Beitrage zur tropischen Landwirtschaft and Veterinarmedizin.* 101, 165 – 180.
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42. Anosike, R.N., Owonubi, J. J., **Chude, V. O.** and Ramalan, A. A. (1998). Evaluation of Different Methods of estimating Potential Evapotranspiration in Semi-arid environment of Nigeria. *Paper presented at the 24th Annual Conference of the Soil Science Society of Nigeria*, Abubakar Tafawa Balewa University (ATBU), November 15-18, 1998.
43. Kparmwang, T.T., Abubakar, A. S., **Chude, V.O.** and Raji, B. A. (1998b). The inherent Fertility of the Microtopographical land features of the River Galma Fadama at Zaria. *Paper presented at the 24th Annual Conference of the Soil Science Society of Nigeria*, Abubakar Tafawa Balewa University (ATBU), November 15-18, 1998.
44. Oyinlola, E.Y. and **Chude, V.O.** (1998a). Effect of Boron fertilizer on yield and some biochemical Properties of two tomato varieties. *Paper presented at the 24th Annual Conference of the Soil Science Society of Nigeria*, Abubakar Tafawa Balewa University (ATBU), November 15-18, 1998.
45. Oyinlola, E.Y. and **Chude, V.O.** (1998b). Effect of boron fertilizer and yield parameters of irrigated tomatoes. *Paper presented at the 24th Annual Conference of the Soil Science Society of Nigeria*, Abubakar Tafawa Balewa University (ATBU), November 15-18, 1998.
46. Amapu, I.Y., Mayaki, M. C., **Chude, V. O.** and Jibrin, J. M. (1998). Sokoto Phosphate rock for Direct Application: the environmental hazards of its heavy metal and radionuclide contents. *Paper presented at the 24th Annual Conference of the Soil Science Society of Nigeria*, Abubakar Tafawa Balewa University (ATBU), November 15 - 18, 1998.

47. Oikeh, S. O., Kling, J.G., Horst, W. J. and **Chude, V. O.** (1997). Yield and N-use Efficiency of five tropical maize genotypes under different N-levels in the Moist Savanna of Nigeria. Maize Productivity Gains through Research and Technology Dissemination. *Proceedings of the Eastern and Southern Africa Regional Maize Conference*, 5; Arusha (Tanzania); 3-7 Jun 1996. *Centro Internacional de Mejoramiento de Maíz y Trigo*, (CIMMYT), México CIMMYT Biblioteca.
48. Oyinlola, E. Y. and **Chude, V. O.** (1997a). Response of two tomato varieties (*Lycopersicon esculentus*, Mill) varieties to boron fertilizer in northern Guinea Savanna of Nigeria. *23rd Annual Conference of SSSN*, Sokoto, 2-6 March.
49. Oyinlola, E. Y. and **Chude, V. O.** (1997b). Boron adsorption and Desorption in some Northern Nigerian savanna soils. *23rd Annual Conference of Soil Science Society of Nigeria*, Sokoto, 2 - 6 March.
50. Daudu, C. K., **Chude, V. O.**, Iwuafor, E. N. O. and Amapu, I. Y. (1997). Prediction of available Soil Magnesium using Chemical Soil tests in Soils of the Nigerian savanna. *23rd Annual Conference Soil Sci. Society of Nigeria*, Sokoto, 2 - 6 March.
51. Pam, S. G., Singh, L. and **Chude, V. O.** (1997). Critical levels of Zinc in the Soils of the Nigerian Guinea savanna. *23rd Annual Conference of Soil Science Society of Nigeria*, Sokoto, 2-6 March.
52. Babalola, O. A., **Chude, V. O.** and Iwuafor, E. N. O. (1997). Rock Phosphate as a Bio-fertilizer for Soybean production in Sudan savanna: Greenhouse studies. *23rd Annual Conference of Soil Science Society of Nigeria*, Sokoto, 2-6 March.
53. Pam, E. D., **Chude, V. O.**, Uyovbisere, E. O. and Kparmwang, T. T. (1997). Evaluation of the Agronomic Efficiency of Sokoto Phosphate rock for Soybean Production in the northern Guinea savanna. *23rd Annual Conference of Soil Science Society of Nigeria*, Sokoto, 2-6 March.
54. Amapu, I. Y., Babalola, O. A., **Chude, V. O.** and James, E. L. (1997). Phosphate rock mobilizing Capacities of cowpea Genotypes. *23rd Annual Conference of Soil Science Society of Nigeria*, Sokoto, 2-6 March.
55. Uyovbisere, E. O. and **Chude, V. O.** (1997). Influence of Organic Matter and Soil oxide Crystallinity on hysteresis in Phosphate Sorption and Adsorption processes, and the effect on critical P in soils. *23rd Annual Conference of the Soil Science Society of Nigeria*, Sokoto, March 2-6.
56. Raji, B. A., Esu, I. E. and **Chude, V. O.** (1997). The Mineralogy of Haplustult and Quartzipsamments derived from Sand dunes. *23rd Annual Conference of Soil Science Society of Nigeria*, Sokoto, March 2-6.
57. Daudu, C. K., **Chude, V. O.**, Iwuafor, E. N. O. Owonubi, J. J. and Ogunremi E. A. (1994). A Comparison of Analytical Methods for some Essential Soil nutrients in selected Soils of the Nigerian savanna. 1: Phosphorus. *21st Annual Conference of Soil Sci. Society of Nigeria*, Uyo, January, 30-February 4.
58. Daudu, C. K., **Chude, V. O.**, Iwuafor, E. N.O., Owonubi, J. J. and Sobulo, R. A.

- (1994). A Comparison of Analytical Methods for some Essential Soil nutrients in selected Soils of the Nigerian Savanna. 2: Zinc. *21st Annual Conference of the Soil Sci. Society of Nigeria*, Uyo, January 30- February 4.
59. Kparmwang, T. T., Esu, I. E. and **Chude, V. O.** (1994). Available and Total forms of Copper and Zinc in Basaltic Soils of the Nigerian Savanna. *21st Annual Conference of Soil Sci. Society of Nigeria*, Uyo, January 30-February 4.
 60. Odunze, A. C., **Chude, V. O.** and Wuddivira, H. N. (1993). Effects of Irrigation Frequency and Drainage conditions on the Performance of Maize (*Zea mays* L.) in the Greenhouse. *Annual Conference of Science Association of Nigeria*, Kano. December 12-16.
 61. Uyovbisere, E. O., Ogungbile, A. O., **Chude V. O.**, Olukosi, J. and Bationo, A. (1993). Long-term Effects of Different Cropping systems in Fertility and Productivity of Soils of the Nigerian Savanna. 10th Annual Workshop of WAFMEN, organised by IFDC Afrique/CENAP, Cotonou, March.
 62. Uyovbisere, E. O. and **Chude, V. O.** (1993). Collaborative Studies on the residual value of Phosphate Fertilizers in the sub-Humid Nigerian Savanna. 10th Annual Workshop of WAFMEN, organised by IFDC Afrique/CENAP, Cotonou, March 5-8.
 63. Raji, B. A., Esu, I. E. and **Chude, V. O.** (1992). The Risk of Sand dune Remobilization in the Sokoto basin, Nigeria. *20th Annual Conference of the Soil Science Society of Nigeria*, Ilorin, November 15-19, 1992.
 64. Raji, B. A., **Chude, V. O.**, Esu, I. E. and Dedzoe, C. D. (1992). The Aggertrapept Great group: A proposed amendment to Soil Taxonomy. *20th Annual Conference Soil Science Society of Nigeria*, Ilorin, November 15-19, 1992.
 65. Odunze, A. C. and **Chude, V. O.** (1992). Land use Classification and Soil Management in the Nigerian Savanna Region. *20th Annual Conference Soil Science Society of Nigeria, Ilorin*, November 15 - 19, 1992.
 66. Uyovbisere, E. O. and **Chude, V. O.** (1992). Effects of some Agronomic Practices for enhancing the Efficiency of Urea on Maize in the sub-Humid Nigerian Savanna. *20th Annual Conf. of Soil Sci. Society of Nigeria*, Ilorin, November 15-19, 1992.
 67. Kparmwang, T. T., **Chude, V. O.** and Esu, I. E. (1992). Contents and Distribution of Forms of Boron in Basaltic soils of the Nigerian Savanna. *20th Annual Conference of the Soil Sci. Society of Nigeria*, Ilorin, November 15-19, 1992.
 68. Kparmwang, T. T., Esu, I. E. and **Chude, V. O.** (1992). A Comparative Study of the Particle size Distribution and the Chemical and Fertility Properties of Basaltic soils in the Nigerian Savanna. *20th Annual Conference of SSSN*, Ilorin, November 15 - 19, 1992.
 69. Kureve, B J, Jensen J. R., Adeoye, K. B. and **Chude, V. O.** (1992). Water intake Characteristics of a Savanna Soil. *20th Annual Conference Soil Science Society of Nigeria*, Ilorin, November 15-19, 1992.

70. **Chude, V. O.** (1992). Fertilizer Response of Maize in the North-western zone of Nigeria. Paper presented at the National Fertilizer Workshop organised by National Fertilizer Company of Nigeria. 22nd - 24th April, Ibadan.
71. Odunze, A. C., **Chude, V. O.** and Adeoye, K. B. (1992). Physico-chemical Properties and Management of Alfisols in the Nigerian savanna. *Paper presented at the 2nd International Symposium on Integrated Land Use for Tropical Agriculture.* Brisbane, Australia. 15-25th September.
72. Pam, S. G. and **Chude, V. O.** (1991). Maize response to Zinc Application in three Different Soils of Northern Guinea savanna zone of Nigeria. *19th Annual Conference of Soil Science Society of Nigeria*, Ile-Ife, November.
73. Daudu, C. K., Esu, I. E., **Chude, V. O.** and Asiribo, O. E. (1991). A Profile distribution of Total and Available forms of Boron in a Cotton-growing Soil of North-western Nigeria. 19th Annual Conference of SSSN, Ile-Ife, November, 1991.
74. Amapu, I. Y. and **Chude V. O.** (1993). Agricultural Zones, Cropping Calendar and Major Soil Unit in Nigeria. Lecture delivered at the Agricultural Projects Planning, Appraisal and Management Course, organized by Nigerian Agricultural and Cooperative Bank (NACB), Kaduna, Nigeria.
75. Esu, I. E., Opatayo, J. A., Kparmwang, T. T. and **Chude, V. O.** (1990). A Comparative Study of the Fertility Status of Harmattan dust and selected basement Complex soils in three vegetation zones of the Nigerian savanna. Book of Abstracts, 18th Annual Conference of Soil Sci. Society of Nigeria, 25 - 29th November, 1990.
76. Omojola, M. O., Olagbemiro, T. O., Thomas, S. A., **Chude, V. O.** and Staddon, B. W. (1990). Studies on the Mineralization of Maize cob Fertilizer in savanna soils (1). Annual Conference of the Chemical Society of Nigeria, Zaria.
77. **Chude, V. O.** and Peni, A. D. (1990). Evaluation of Bray I Method in predicting the response of Sorghum (*Sorghum bicolor (L) Moench*) to Phosphorus in Savanna Soils of Northern Nigeria. *Bulletin Science Asso. of Nigeria* 16(1):78.
78. **Chude, V. O.** (1991). Present knowledge of Agrolyser micronutrient fertilizer on Quality and Yield of Crops in Nigeria. *Paper presented at the 27th Annual Conference of the Agricultural Society of Nigeria*, (September), Minna.
79. **Chude, V. O.** (1990). Soil Analysis and Data Processing. Paper presented at the Workshop on National Soil Testing Service. (March).
80. **Chude, V. O.** (1990). The Basis for New Fertilizer Products". Lecture delivered at a fertilizer Forum in Kaduna, Sokoto, and Jos, Plateau States organized by National Fertilizer Company of Nigeria Port Harcourt on 29 May, 6th and 20th June 1990.
81. Uyovbisere, E. O. and **Chude, V. O.** (1990). Nutrient Requirement and Fertilizer Evaluation Studies on some cereal crops at Samaru in the sub-Humid Nigerian Savanna. Paper presented at the IFDC Afrique/IDRC _ Canada, NUDP Sponsored AFMN Workshop. Lome, Togo. March 12-16, 1990.
82. Olatoye, S. T., Egbe, N. and **Chude, V. O.** (1987). Soil Productivity and Cocoa

(*Theobroma cacao*, L.) in Nigeria. Workshop on Soil Productivity, University of Jos, Makurdi Campus.

83. **Chude, V. O.** (1988). Comparative Performance of five cacao (*Theobroma cacao* L.) cultivars grown on Boron deficient sub-soils in Nigeria; *Proceedings. International Cocoa Research Conference* 17-23
84. **Chude, V. O.** (1986). Differential Response of two Cocoa varieties to Phosphorus and Zinc fertilizers in Nigeria. XIII Conference of the International Society of Soil Science, Extended Informative Summaries. Hamburg, Germany 705.
85. **Chude, V. O.** and Obigbesan, G. O. (1984). Critical limit of Boron in Soil and Plant for predicting response of young cocoa to Boron application. *Proceedings of the 19th International Cocoa Research Conference*, Lome-Togo. 193-197.
86. **Chude, V. O.** (1983). The Nutritional Status of Cocoa (*Theobroma cacao* L.) with respect of Boron and Zinc in Soils of South-western Nigeria. Ph.D. Thesis, University of Ibadan, Ibadan.
87. **Chude, V. O.** (1980). Micronutrient supplying Power of selected Tree-crop growing Soils in South-western Nigeria. M.Sc thesis, University of Ibadan, Ibadan.
88. **Chude, V. O.** (1976). Liming of Some Acid Soils and Effect on Yield of Maize. B.Sc Project, University of Nigeria, Nsukka.

INTERNATIONAL CONFERENCES/WORKSHOPS CO-ORGANISED

1. Stakeholders' Meeting for Developing implementing regulations for the National Fertilizer Quality Control Bill in Nigeria on the 18th October, 2018.
2. Workshop on Enabling the Business of Agriculture 2017 Report Dissemination and Prioritization of Reform Actions to Improve on the Indicators, Abuja – Nigeria, February 13th – 14th, 2018 (jointly organized by AGRA, Federal Ministry of Agriculture and Rural Development and World Bank)
3. High-Level Forum to showcase successful South-South Corporation (SSC) in Africa experiences and exchange views and ideas in support of FAO's new SSC strategy, 26th - 29th of September, 2013.
4. High-Level Conference on Development of Agri-business and Agro-Industries in Africa (HLCD-3A), Abuja, Nigeria 8th – 10th March, 2010.
5. Summit on Food Security in Africa: Declaration of the Abuja Food Security Summit, Abuja – Nigeria, December 4th – 7th, 2006.
6. Africa Fertilizer Summit: “Nourish the Soil, Feed the Continent”: Abuja – Nigeria, June 9th – 13th, 2006.

ACADEMIC SUPERVISION

M Sc. Thesis Supervision

Pam, S. G. (1990); Daudu, C. K. (1993); Olowokere, B. (1996); Esther, P. (1997); Jibrin, J. M. (1995); Abubakar, M. (1999); Akinwa, A. O. (1989); Mosugu, M. E. (1989); Zarafi, S. G. (1993); Yaro, D.T. (1994); Tarfa, B. D. (1994); Chinke, N. M. (1999) and Jayeoba, J.O. (2000).

Ph D Thesis Supervision

Uyovbisere, E. O. (1995); Nto, E. K. (1998); Oyinlola, E. (1997); Babalola, H. (1997); Oikeh, S. O. (1996); Jibrin, J. M. (1999); Malgwi, W. B. (2001); Nwadukwe, P. O. (1993); Kparmwang, T. T. (1993); Negedu, S. (1994); Raji, B. A. (1994); Labe, D.A. (2000).

CONFERENCES / SEMINARS / TRAININGS ATTENDED

International

- Food and Agriculture Organization of the United Nations /Global Soil Partnership 5th International Network of Soil Information Institutions (INSII) FAO Head Quarters, Rome, Italy 21 – 23 October, 2019.
- Fertilizer and Seed Recommendation for West Africa Map (FeSeRWAM) Regional Validation Workshop 12 – 16 August, 2019. Dakar, Senegal.
- 21st World Congress of Soil Science 12th – 17th August, 2018, Rio de Janeiro, Brazil.
- 4th African Soil Partnership Workshop, 11th – 13th. July 2018. Italy, Rome.
- 30th FAO Regional Conference for Africa. 19th – 23th February, 2018, Khartoum, Sudan.
- Workshop on “Legal Instruments for the effective protection and sustainable management of soils”. 26th – 27th September 2017. Kampala, Uganda.
- West Africa Fertilizer Agribusiness Conference, 10 -12 July, 2017 Accra, Ghana.
- High-Level Meeting on the Initiative for the Adaptation of African Agriculture to Climate Change (AAA Initiative) 29 - 30th September, 2016 Marakesh, Morocco.
- AFAP/IFPRI roundtable discussion at AFAP’s Headquarters in Johannesburg, South Africa to discuss the Declaration’s state of progress to achieve its overall goal of contributing to the improvement of fertilizer markets and increased input use in African countries south of the Sahara, July 15, 2015.
- African Soil Partnership Workshop: Towards a Regional implementation plan on sustainable management of soil resources held from 20 - 22 May 2015 in Accra, Ghana
- The 3rd Plenary Assembly of the Global Soil Partnership (GSP) held from 22 to 24

June 2015, at FAO Headquarters, Rome.

- Global Soil Week '15 held from 18 to 22 April 2015 in, Berlin, Germany.
- First joint meeting of the ITPS and the UNCCD Science Policy Interface held 20 April 2015 in Berlin Germany.
- Third Working Session of the Intergovernmental Technical Panel on Soils (ITPS) held from 13th to 17th April, 2015 in Postdam, Germany.
- Training on Operationalization and Maintenance of SoilDoc at the Earth Institute Columbia University 29th – 13th November, 2014.
- 24th Session of the Committee on Agriculture (COAG) held at FAO Headquarters, Rome, 29th September to 3rd October, 2014.
- The British Society of Soil Science Annual Meeting “Delving into the dark: Emerging techniques, approaches and tools for Soils research”, held at the University of Manchester, United Kingdom, 3rd - 4th September, 2014.
- 20th World Congress of Soil Science, 2014, ICC, Jeju, Korea, 8th – 13th June, 2014.
- The Second Working Session of the Intergovernmental Technical Panel on Soil, Hosted by the Global Soil Partnership to discuss a number of crucial commitments agreed upon by the ITPS, at FAO, Rome, 7th – 11th April, 2014
- Global Soil Week 2013, Theme: ‘Losing Ground?’ Hosted by the GSP Secretariat, the European Commission, the German Federal Environment Agency, and the United Nations Convention to Combat Desertification and the University of Sidney, 27th – 31st October, 2013, Berlin, Germany.
- AfSIS Inception Workshop, 17th – 18th of July, 2013 at the International Livestock Research Institute (ILRI) sponsored by the Bill and Melinda Gates Foundation and organized by the Columbia Global Centers, Africa, Nairobi, Kenya
- First Plenary Assembly of the Global Soil Partnership (GSP), 11th – 12th June, 2013, FAO Headquarters, Rome.
- AfSIS Phase II Design Workshop, 1st – 2nd November 2012, organized by The Columbia Global Centers Africa, Nairobi, Kenya.
- Fourth China – IFAD South – South Cooperation Workshops, 5th – 11th July, 2012 in Beijing, China.
- 2012 IUSS Inter-Congress Council Meeting 3rd – 8th June, Jeju, Korea.
- Investment Forum in Agriculture, USA in March, 2012.
- Internal Executive Training on Project Leadership and Team Building in Gambia, 13 – 17 December, 2010.
- International Workshop on Soil Physical Processes in West Africa, Ahmadu Bello University Zaria, Nigeria 20 – 30 June, 2011.
- Phosphate Fertilizer Production Technology Workshop, Berlin, Germany, June 20 – 24, 2011.
- Developing Private Sector Agro-Input Markets – Designing & Implementing Targeted Subsidy Programmes at Yankari National Park, Bauchi State, October 25 – 29, 2010.

- Designing and Implementing Agro-Inputs Marketing Strategies (Training & Study Tour) IFDC Hq. Muscle Shoals, Alabama, U.S.A. – October 4 – 15, 2010.
- International Training Workshop on Conservation Agriculture Arusha, Tanzania September 28th - 8th October, 2004.
- International Training Course on Agric Input Regulatory Systems, Pretoria, South Africa. August 16th – 20th, 2004.
- II World Congress on Conservation Agriculture, Brazil August 2003.
- Stakeholder Meeting, IFDC-IFAD ISFM Project. IFDC-A Division Lome, Togo. March 7 – 8 2002.
- International workshop on nutrient management support systems IFDC-Africa Lome, Togo. Workshop organized by IFDC-Africa and the Soil Management Collaborative Research Support Program (SM-CRSP). North Carolina State University and Texas A&M University. March 12 – 15, 2002.
- Workshop on Integrated Management for Sustainable Agriculture, Forestry and Fisheries 28 – 31st August, 2001. CIAT, Cali, Colombia.
- Soil Water Nutrient Management Meeting, 25 – 26th August, 2001, CIAT Cali, Colombia.
- XIV International Plant Nutrition Colloquium, University of Hannover, Germany 27 July – 03 August, 2001.
- Mid-Term Review Meeting of Soil Water Nutrient Management Programme of the CGIAR at ISRIC Wageningen 2000.
- Mid-Term Review Meeting of Soil Water Nutrient management Programme of the CGIAR at CIAT Colombia 1998.
- West and Central Africa Regional Maize Workshop, 14-18, May, 2001, IITA-Contonou Station, Benin republic.
- International Symposium on Balanced Nutrient Management Systems for the Moist Savanna and Humid Forest Zones of Africa. October 9 - 12, 2000, Cotonou, Benin Republic.
- Work Meeting for Combating Nutrient Depletion Data Analysis for Statistical and Simulation Modelling, February 7-11, 2000. Lome - Togo.
- Soil and Water Nutrient Management Review Meeting. ISRIC, Wageningen, The Netherlands. February 28 – March 3, 2000
- International Research Review Meeting on the activities of Combating Nutrient Depletion. Organized by the International Fertilizer Development Centre for Africa (IFDC- Afrique), Lome, Togo, December 3 - 7, 1999.
- Soil Water Nutrient Management pre-Brasiliar Mid-Term Meeting CIAT Columbia, South America, May 20-22, 1998.
- Workshop on efficient Soil Water use - The Key for sustainable crop production in dry-areas agriculture in WANA and SSA ICRISAT, Sadore, Niger, April 26-May 1, 1998.
- Combating Nutrient Depletion Planning Workshop. International Fertilizer

Development Centre-Africa Lome, Togo, 20-31 October, 1997.

- International Training Course on Fertilization and the Environment Technion-IIT University, Haifa, Israel 24th March – 20th April, 1997.
- CIAT- IBSRAM Workshop on Soil Water and Nutrient Management Research, IPGRI- Rome, Italy. 19 - 25th February 1996.
- TSBF-KARI-IFDC-IAR Joint Planning Workshop on Combating Nutrient Depletion Consortium. Nairobi-Kenya. 12-16 February 1996.
- IFDC- IITA-IAR Joint Planning Workshop on Combating Nutrient Depletion Consortium, Lome-Togo. 6 - 9th February, 1996.
- Consultative Group on International Agricultural Research. International Centers Week 1995, Washington USA, October 30-November 3, 1995.
- IBSRAM-CIAT-DSE Workshop on Soil Water and Nutrient Management Research: Environmental Productivity Dimensions- A Consortia Approach DSE-Feldafing, Germany. 12-15th June 1995.
- Workshop on the Use of Green manure in increasing the efficiency of soil and applied phosphorus. Institute of Plant Nutrition, University of Hannover, Germany. 6th May – 11th June 1995.
- International Workshop on Use of Local Mineral Resources for Sustainable Agriculture in West Africa. Lome, Togo. November 21 - 23, 1994.
- 18th International Course on Nutrient Management for Sustainable Agriculture. Wageningen. The Netherlands. August 28 - September 24, 1994.
- Follow-up Workshop on the use of MSTAT- C Computer programme for fertilizer data analysis organized by IFDC, Afrique. Lome, Togo. 17 - 18th December, 1993.
- 10th Annual workshop of WAFMEN organized by IFDC (Afrique)/CENAP, Cotonou, Benin Republic. 5 - 8th March, 1993.
- Training Programme on Advances in Fertilizer and Irrigation Technology. Alabama, U S A, visit to Laboratories of nine Universities in USA, June, 8-27, 1992.
- Training workshop on the use of MSTAT- C computer programme for fertilizer data analysis organized by IFDC, Afrique. Lome,Togo. 12 - 16th May, 1992.
- 9th Annual Research Planning meeting of WAFMEN organized by IFDC (Afrique), Niamey, Niger. March 12 - 16th, 1991.
- WAFMEN workshop on efficient use of indigenous materials as Fertilizer sources, 1990. Lome, Togo.
- Workshop on On-farm Fertilizer evaluation and adoption. IFDC/IAR 1st Research Planning Meeting, April 18-20, 1989. Lome, Togo.
- WAFMEN Symposium, Ouagadougou, Burkina-Faso. 6 - 11th, February, 1989.
- West African Fertilizer Management and Evaluation Network (WAFMEN). 9 - 12th February, 1988. Lome, Togo.
- XIII Congress of the International Society of Soil Science. 1986. Hamburg, Germany.

Local Conferences/Workshops

- World Soil Day celebration “Stop Soil erosion save our Future” 5th December, 2019 at Royalton Hotel, Area 2, Garki Abuja.
- World Food Day celebration “Our Actions are our Future” 16th October, 2019 National Agricultural Show Complex, Km 28, Keffi Express way, Nasarawa State.
- World Soil Day celebration “Be the Solution to Soil Pollution” 5th December, 2018.
- 2018 World Food Day “Action for Zero Hunger by the Year 2030”. 16th October, 2018. National Merit House, Maitama, Abuja.
- 2017 World Soil Day celebration “Caring for the Planet starts from the Ground” 5th October, 2017. University Auditorium, University of Abuja, Nigeria.
- 2017 World Food Day celebration “Climate is changing, Food and Agriculture too” National Agricultural Show Complex, Km 28 Keffi Express way Nasarawa State.
- Policy Dialogue series Workshop on Bringing back Balanced Fertilizers to the Nigerian Market: Policy and Investment Implication of Soil and Crop-specific blend based Technologies, April 6, 2017 Abuja, Nigeria.
- Coordinated and partook in the Training Workshops on the use of SoilDoc System held in Kaduna and Ibadan Nigeria, 21st to 1st August and 10th to 21st August 2015 respectively.
- Review and Validation of the Inclusive Industries Programme (IIP) of the AfDB Pilot Project Proposal, Nigeria held on the 11th of July, 2015 at Sheraton Hotel and Towers, Abuja, Nigeria.
- National Workshop on Mainstreaming Nutrition into Agricultural Policies, Programmes and Value Chains, August 27 – 28, 2014.
- High Level Forum to showcase successful South-South Corporation (SSC) in Africa experiences and exchange views and ideas in support of FAO’s new SSC strategy, 26th - 29th of September, 2013.
- Official launch and inception workshop for the implementation of the African Cocoa Initiative (ACI) of the World Cocoa Foundation, 18th April, 2013 at the Rockview Hotel, Abuja.
- Annual Conference of the Soil Science Society of Nigeria since 1981 to date.
- Annual Conference of the Science Association of Nigeria since 1980 to date.
- Annual Conference of the Agricultural Society of Nigeria since 1980 to date.

TRAININGS AND CERTIFICATIONS

- **Phosphate fertilizer Production Technology Workshop**, Berlin, Germany. 2011.
- **International Workshop on Soil Physical Processes in West Africa**, Ahmadu

Bello University, Zaria, Nigeria. 2011.

- **Designing and Implementing Agro-Inputs Marketing Strategies**, IFDC Head quarters, Muscle Shoals, Alabama U.S.A. 2010.
- **Developing Private Sector Agro-Input Markets – Designing & Implementing Targeted Subsidy Programmes** at Yankari National Park, Bauchi State. 2010.
- International Training Program on **Integrated Soil Fertility Management (ISFM)** Sogakope – Ghana, 11-15 April 2005
- International Training Workshop on **Nitrogen Use Efficiency in Rice Systems** Dhaka, Bangladesh, 9-23 February, 2005
- International Training Workshop on **Conservation Agriculture** Arusha, Tanzania, 28th Sept. – 8th October, 2004.
- International Course on **Systems Approach and Simulation Modeling**, IAR/ABU, Zaria, Nigeria February 4 – 7, 2002.
- International Training Workshop on the **Use of Models in Agriculture**, Zaria 9 – 12th April, 2001.
- International Training Program on **Nutrient Management for Sustainable Agriculture**, IAC Netherlands, 1995.
- Training Programme on **Advances in Fertilizer Technology**. IFDC, Alabama, United States of America. 1992.
- Training course on the **Use of MSTAT-C Computer Programme for Fertilizer Data Analysis**. International Fertilizer Development Center (IFDC), Afrique, Lome, Togo, 1992.
- International Training Course on **Modeling, Simulations and Growth Responses**, IFDC, Togo, 1998.

COMMUNITY SERVICES

1990 – 2001	Referee to Samaru Journal of Agricultural Education; Samaru Journal of Agricultural Research (Associate Editor).
1990 – 2001	Referee to Journals of Annals of Borno; Nigerian Journal of Soil Science; Nigerian Journal of Agricultural Science; The Nigerian Journal of Basic and Applied Sciences, Sokoto
1997	Chairman, Committee on Institute for Agricultural Research on re-organization, restructuring and rationalization of Research Institutes and Centers
1987 – 2001	Rendering of soil extension services to members of the farming community within and outside Ahmadu Bello University, Zaria
1987 – 2001	Research Consultant to National Fertilizer Company of Nigeria, Onne, Port Harcourt; Fertilizer and Chemicals Company Limited, Kaduna; Agro-Nutrient Fertilizer Company, Kano; Cybernetics Nigeria Limited, Kaduna; Niger State Fertilizer Company,

	Zungeru, Minna; Crystallizer Nigeria Limited, Kaduna and the Federal Ministry of Agriculture and Natural Resources on Fertilizer Formulation, Standardization, Specifications and Testing.
1987 – 2001	Patron of various Students' Professional and Religious Bodies in ABU, Zaria.
1987 – 1995	Served as a resource person in Soil Fertility Management at the Monthly Technical Review Meetings for Kaduna State Agricultural Development Projects.
1987 to 2000	Resource person involved in the training of Middle level manpower under the Agricultural Extension Unit training Programmes of Institute for Agricultural Research, Samaru
1990	Member, NUC Accreditation Team for B. (Agric) Programme in the University of Nigeria, Nsukka and Rivers State University of Science and Technology, Port-Harcourt.
1992 – 1996	Chairman, Department of Soil Science, Post Graduate Committee
1992 to 2000	Chairman, Department of Soil Science, Research Proposal Funding Committee.
1992 – 2000	Member, Department of Soil Science, Standardization of Analytical Methods Committee.
1994 – 1997	Representative of the Faculty of Agriculture in the University Board of Research, Biology Complex and Central
1999	Member, NUC Accreditation Team for B. (Agric.) Programme in Western States Universities.
1999 – 2001	Editor-in-Chief, Nigerian Journal of Soil Research
2000 to 2001	Member, Governing Board, Division of Agricultural Colleges Ahmadu Bello University, Zaria.