**CURRICULUM VITAE**

1. **PERSONAL DETAILS**
2. **Name**  **Ihegwuagu** Nnemeka Edith
3. **Maiden name** Okwaraku
4. **Department/Unit**  Plant Resources Department (PRD)

 Agri-input & Integrated Pest Management Unit

1. **Date and Place of Birth** 20/05/75 at Isiekenesi, Imo State
2. **State of Origin** Imo
3. **Local Government** Ideato-South
4. **Nationality** Nigerian
5. **Marital Status** Married
6. **No. of Children** Four
7. **Sex**  Female
8. **Languages spoken** English and Igbo, (learning French)
9. **Contact Address: Residential** Andikan-Estate,Saraha,Gwarinpa, Abuja
10. **Permanent Home Address** Amoka, Okpatu Udi Enugu
11. **Date of First Appointment** 7th August, 2003
12. **Present Rank and Salary** Assistant Director/Head-SERVICOM Unit
13. **Electronic Contacts**: nneihegwuagu@gmail.com edithnnemeka@gmail.com Tel: 08036490205, 08053563821
14. **EDUCATION**
15. Schools attended and Qualifications obtained with dates

**INSTITUTIONS ATTENDED WITH DATES**

1. Federal University of Agriculture, Makurdi 2011 – 2016
2. University of Abuja, Abuja 2005 – 2008
3. Federal University of Agriculture, Abeokuta, Ogun 1993 – 1998
4. Command day Secondary School, Ojo Lagos 1984 – 1989
5. Pakun-Ola Nur/Pry, School, Amukoko, Lagos 1980 – 1984

**QUALIFICATIONS OBTAINED WITH DATES**

PMD Pro Certification 2019 & 2020

Doctor of Philosophy (Agrochemical technology) 2016

M.Sc., (Analytical Chemistry) 2008

B.Sc. (Chemical Sciences) 1998

W.A.S.C/G.C. E (O/L), 1989

First School Leaving Certificate 1984

1. **Additional Educational Qualifications/ Certifications with dates**
2. Certificate onnational training on Women and Youth Networks on Seed Production, Processing and Marketing and Seed Business Management in Nigeria from 21st -23rd , August, 2023 held at Dennis Hotel, Wuse 2, Abuja
3. Certificate on a regional training on the development of Climate Smart Agriculture (CSA) projects and the use of tools and methods for assessing the climate-smartness of agricultural practices and technologies held from 26th to 28th July, 2023 in Abidjan, Cote D’ivore**.**
4. Certificate in Making Competency Based (Agricultural) Education Work (MEW) by ICRA, OKP, at Wageningen International Conference Center (WICC), Wageningen, Netherlands (Online and Physical); April -June, 2023.
5. Certificate as a CORAF/AICCRA member Community of Practice (CoP) as an expert to facilitate Foresight Analysis for climate and agricultural issues in West Africa; June 21st, 2023 @ Lomé, Togo.
6. Certificate of participation in women’s leadership training in agriculture and climate research held in Dakar, Senegal, March 20-24th, 2023.
7. Certificate of participation in Foresight Analysis for climate Resilient Agricultural Development training from 4th – 21st October, 2022 @ Dakar, Senegal.
8. Certificate on Making Research Work, by ICRA, OKP, at Wageningen Center for Development Innovation, Wageningen, Netherlands May-July, 2022.
9. Certificate on Rural Entrepreneurship for Africa, WCDI, Wageningen, Netherlands (online), August-December, 2021.
10. Certificate on Evaluating & Managing for sustainable Development Impact, WCDI, Wageningen, Netherlands March-June, 2021 (Online)
11. Project Management for Development Professionals: PMD Pro Certification – 2019 & 2020
12. Certificate on Integrated Pest Management & Food Safety at Wageningen Center for Development Innovation (WCDI), Wageningen University & Research, Netherlands, June, 2018.
13. **WORK AND RESPONSIBILITIES**
14. **Working Experience, Responsibilities & Achievements with Dates**

**Assistant Director** Head, Arable Crops Division & Head, Agri-inputs & Pest Management Research Unit, **2022 -date** at Agricultural Research Council of Nigeria, (ARCN), Abuja.

**Achievements** Building, Supervising, leading &training a team of 10 staff through senior level directing reports. Also training them to write policy briefs/ research papers, proposals.

**Country Focal Point** CORAF**-**CAADP-XP4 Regional Project,**2020 – Present**

**Country Focal Point** IFPRI/CORAF/ASTI, Regional Project, **2021- Date**

**Achievements** Facilitated the implementation of about sixteen (16) CAADP-XP4 project activities till date in Nigeria. Coordinates the collection of vital national data (scientists, partners, production data etc) and transmission to the secretariat.

Managed effectively ARCN/ CORAF relationship over these years.

Coordinated the Nigerian ASTI 2022 online survey, analysis, and reporting on Agric Research & Development; 2017 -2021.

**Head ARCN SERVICOM Unit:** The Nodal Officer ARCN SERVICOM, responsible in spear-heading service delivery initiatives in the Council. **2019- Present**

**Achievement** Optimizing of Agency staff service delivery awareness to 80% and celebrates service week annually.

**Chief Agric. Officer/Head** Agri-inputs & Integrated Pest Management Unit Arable Crops Division (ACD), Plant Resources Department (PRD), **2019- 2021.**

**Responsibilities:** i. Assist the Head of Division in the overall coordination of the ACD Division

ii. Take charge of the coordination of the Agri-inputs, Environment & Integrated Pest Mgt Research issues etc.

**Head of Division**  Natural Resources &Environmental & Integrated Pest Management Unit. **2011- 2018**

**Responsibilities**: i. Assisted the Programme Manager in the overall coordination of the Division.

ii.Took charge of the leading 7 staff in the Environment & Integrated Pest Mgt Research issues.

iii. Liaised with 25 research institutions on NRM issues.

**Asst. Chief & Prin. Res. Officer** Coordination of Environment & Integrated Pest Mgt. Research issues. **2012-2014 and 2015-2017**

**Snr. Agric. Research Officer** Institutional Development Unit (IDU) **(2009- 2011)**

**Responsibilities:** i. Coordination, Development and Deployment of Quality System in Agricultural Research Activities

ii. Monitoring of Agricultural Trends and Development to promote ARCN functions.

iii. Preparation of Technical Brief

**Scientific Officer 1** Livestock & Fisheries Department, Agricultural Research Council of Nigeria, Agricultural Research House, Mabushi, Abuja, **2006 - 2008**

**Scientific Officer II** Agricultural Sciences Department (ASD). Federal Ministry of Agriculture and Water Resources, Garki Abuja. **2003-2006**

**Responsibilities:** i. Takes charge of the coordination of Livestock, Livestock Products and Utilization.

ii. Monitoring and Evaluation of Agricultural Researches in all the National Agricultural Research Institute (NARIs).

iii. Desk officer for Livestock Research Institutes.

iv. Ensures timeliness in Service delivery of the department.

* + - * 1. Service Improvement Officer (SIO) SERVICOM, **2004 -2005**

Coordination of Staff Attendance Registers, Movement Registers and Preparation of Monthly Report on A.S.D. staff Movement and Timeliness.

**Marketing Executive.** Intel Nig. Ltd, No 10, Road 123, Kado Estate Abuja. **2000-2003**

**Quality control Chemist** Pipelines and Products Marketing Company (P.P.M.C), **(N.Y.S.C.)** (a subsidiary of NNPC), Oil Movement and Quality Control (OMQC), Department Lagos. **1998-1999**

**Responsibilities:** i. Preparation of Equipment status report for the five area offices of P.P.M.C.

ii. Preparation of various reports on system performance.

iii Ascertains quality of crude oil and refined products to ensure they meet specifications.

**Quality Control Trainee (IT)** Kaduna Refining and Petrochemical Company (KRPC), (a subsidiary of NNPC), km 16, Kachia Road, Kaduna state. **1996**

**Responsibilities:** Analysis of water samples in all the boilers in the

 Refinery plant.

Analytical tests of finished Petroleum Products and Crude oil samples.

Gas analysis.

1. **COMMITTEE MEMBERSHIP WITH DATES**
2. Thought partner at the launch of a new Center on Risks and inclusion –Food System (CRIFS) to be sponsored by the Bill & Melinda Gates Foundation (BMGF), 15-18th October, 2023, at Seattle, WA, USA.
3. Member, ARCN- national Agricultural Research Policy (NARP), 2023 - date
4. Member ARCN Proposal Development Committee (PDC), 2021- date
5. Chairperson, LOC for the 7th Annual Symposium for American Chemical Society, Nigeria International Sciences Chapter, 6-10th March, 2022 in Abuja.
6. Member, LOC for the 43rd Annual CSN International, Conference, at Raw Material Research Development Council, Abuja, 22-27th November, 2020.
7. Member, ARCN Staff Audit, Posting and Schedule of duty Committee, 2019.
8. Financial Secretary Abuja Archdiocesan Evangelical Ministry of the Catholic Charismatic Renewal of Nigeria…2019 till 2023.
9. Member Food Security Sector Working Group Nigeria (FSSWGN) & Cadre Harmonize National Task Force on Food and Nutrition Security. 2017 till date
10. Member development of a regional strategy on agricultural inputs in West Africa and the Sahel, Working Group 2016 till date
11. Member National Land Degradation Neutralization Working Group, 2016- date
12. Coordinator ARCN-PRD Seminar/workshop organizing Committee 2016 till date
13. Treasurer ARCN-CTRP Staff Welfare Committee 2012 -2016
14. Member Volunteer Committee of the Nigerian -American Chemical Society for de-mystifying Chemistry in FCT secondary schools, Abuja, September, 2015.
15. Business Committee Secretary, ARCN, Cooperative Society 2012-2013
16. Team leader NARIs, FCAs and ARCN nominal roll analysis Committee 2010-2011
17. Enumerator for IFPRI-ARCN, Survey of the Capacity and Competency Needs of the entire NARS in the South-Western region of Nigeria, 2nd- 17th June, 2010
18. Member ARCN/World Bank- Nigerian Appraisal Mission of the West African Agricultural Productivity Programme (WAAPP-1B), 2010.
19. Sub-secretary II/Member of the Secretariat, Competitive Agricultural Research Grant Scheme (CARGS) - Agricultural Research Council of Nigeria, 2009-2012
20. Member, LOC for the 30th Annual CSN International, Conference, 2007
21. Member, retreat steering committee for the first ARCN retreat for the NARIs, 2007
22. **ADMINISTRATIVE DUTIES HELD WITH DATES**
23. Assistant Director, Acting Head of Arable Crop Division, PRD-ARCN
24. Nigerian Focal Point to CAADP-XP4 Project 2020-date.
25. Nigerian Focal Point to CORAF-IFPRI- ARCN ASTI Project 2021 -date
26. Member (ARCN Representative) Governing Board, National Horticultural Research Institute, Ibadan Nigeria, 2019-2023
27. Head of SERVICOM Unit, Office of the Executive Secretary, 2019 –date.
28. Chairperson Plant Resources Department Communication Committee, 2019 - date
29. Chairperson ARCN-CTRP Seminar/Workshop organizing Committee,

2016 -2018

1. Head of Division Natural Resources Management (NRM) 2015 - 2018
2. Acting Personal Assistant to Director CTRP Oct-Dec., 2016
3. Head of Unit, Agri-input, Environmental & Integrated Pest Management 2016- date
4. Agricultural Sciences Department Service Improvement Officer (SIO) SERVICOM, 2004 – 2006
5. **CAREER PROGRESSION**
6. Scientific Officer II 2003 -2006
7. Scientific Officer I 2006 - 2009
8. Agricultural Research Officer 2009
9. Senior Agricultural Research Officer 2010 -2013
10. Principal Agricultural Research Officer 2013 -2016
11. Assistant Chief Agricultural Research Officer 2016-2019
12. Chief Agricultural Officer 2019 till date
13. **COMMUNITY SERVICE (NATIONAL, STATE, COMMUNITY)**
	* 1. Member Food Security Sector Working Group (FSSWG), FAO, Abuja.
		2. Volunteer, Community Excellence Development Initiative (CEDI), a Non-Governmental Organization (NGO), Abuja.
		3. Member Catholic Women Organization, Mushroom Growers, Abuja
		4. Vice Chairlady, Okpatu Women Progressive Union, Abuja chapter 2018 till 2019
		5. Financial Secretary Abuja Archdiocesan Charismatic Evangelical Ministry, 2019 till date
		6. Business Committee Secretary, ARCN, Cooperative Society 2012-2013
		7. Queen (2016-2018)/Life Member, Okpatu Progressive Union (OPU), women wing, Abuja chapter 2001 till date
		8. **Professional Membership:**

Member Nigerian Society for Plant Protection (NSPP).

Member, Chemical Society of Nigeria (CSN), Abuja chapter, Nigeria.

Member Institute of Chartered Chemists of Nigeria (ICCON), 2007

Member Society for Monitoring and Evaluation (SMEAN) 2018 till date

Associate Member, Royal Society of Chemistry (RSC) United Kingdom. **Membership No: 533271**.

Member, American Chemical Society (ACS), Washington DC. **Membership No: 30616290**

Fellow, South and Eastern Africa Network of Analytical Chemists (SEANAC), 2014.

Fellow, UNESCO-unisa Africa Chair in nanosciences and nanotechnology, Pretoria, Republic of South Africa.

Member, Nanosciences African Network, Summerset, Republic of South Africa

D. **ACADEMIC PROWESS**

1. **Conference attended with dates**
2. The 7th Annual Symposium of the American Chemical Society (ACS), Nigeria International Chemical Sciences Chapter, held at the Raw Materials Research and Development Council (RMRDC), Maitama Abuja between 6th and 9th March, 2022. (LOC Chairperson)
3. The 43rd Annual International Conference, workshop and Exhibition of the Chemical Society of Nigeria held at the Raw Materials Research and Development Council (RMRDC), Maitama Abuja between 22nd and 26th November, 2020. (LOC member /participant)
4. The 45th Annual Conference of the Nigerian Society for Plant Protection (NSPP), held at Helemah Event Centre, Uyo, Akwa Ibom from 15th -19th March, 2020. (Oral Presentation)
5. International Union of Pure and Applied Chemistry(IUPAC)’s Global Women Breakfast 2020 (GWB2020): Workshop/ theChemical Society of Nigeria(CSN), Abuja Chapter networking event, held on the 12th, February, 2020 at the ARCN Conference Hall, Mabushi, Abuja. (Host & Oral Presentation).
6. The American Chemical Society (ACS) Nigeria International Chemical Sciences Chapter, 3rd Annual Symposium Series & Workshop, which held at Le Meriden Hotel & Golf Resort, Uyo from 4th – 7th March, 2018**.** (Oral Presentation).
7. The 26**th** Annual National Conference of the Nigerian Environmental Society (NES), which held at the Yar’Ardua Conference Centre in Abuja from 3rd – 5th November, 2016**.** (Oral Presentation).
8. National cassava summit, 2016, which held on the 8th, September, 2016 at Sheraton Hotels, Abuja. (Participant)
9. The **4th Nano Today Conference** (Nano Today 2015) organized by Elsevier, the Institute of Bioengineering and Nanotechnology, and the journal Nano Today, which held from 6th -10th December, 2015 in Dubai. (Two Poster Presentation).
10. Nigerian Women in Agricultural Research for Development (NIWARD) Conference and annual general meeting, held in The Women’s Centre, Abuja, 2015. (Participant)
11. Royal Society of Chemistry’sPan African Chemistry Network (PACN) Congress which held on 3rd – 5th December, 2013, at Addis Ababa, Ethiopia

(Poster presentation).

1. The 36th annual international conference of the Chemical Society of Nigeria (CSN), at Minna Niger state, September, 16-20th 2013, title: Ecofriendly synthesis of silver nanoparticles capped in corn starch and its anti-mold (fungal) activities. (Oral Presentation).
2. International Conference on Agrochemicals Protecting Crops, Health and Natural Environment (APCHNE- 2012); Role of chemistry in sustainable Agriculture.15-18th February, 2012, at IARI, New Delhi, India. (Poster presenter).
3. Strategic Planning Workshop of the Agricultural Research Council of Nigeria, 28th September- 2nd October, 2009, Abuja, Nigeria (Participant)
4. International Workshop on Neem (*azadirachta indica.a*), it’s Product, Production and Application, at National Research Institute for Chemical Technology, Zaria, 24th – 26th March, 2009.(Participant)
5. Meeting of Agricultural Extension support activities of the National Agricultural Research Institutes (NARIs), Abuja, 28th-29th October, 2008.(Participant)
6. First ARCN Retreat for Refocusing of Agricultural Research in Nigeria, Ilorin, Kwara State, July, 2007 (Member Secretariat).
7. 2nd International Techno-Expo of Raw Material Research and Development Council (RMRDC), Abuja, 2004 (Observer).
8. **PUBLICATIONS**

25.1 **Thesis**

1.Ihegwuagu Nnemeka Edith; Slow Release Formulations of Chlorpyrifos and Dichlorvos Using Native Starch and Starch-Silver Nanoparticles as Matrices, (2016) (Ph.D. Project)

**2. Ihegwuagu Nnemeka Edith**; Isolation and Characterization of locust bean (*parkia biglobossa*), starch. (M.Sc. project).

**3**. **Ihegwuagu Nnemeka Edith**; A survey of heavy metals levels as it relates to Vehicular traffic and local activities in Abeokuta Street Dust (B.Sc. project).

**25**.1. **Book Chapters:**

1. **Book Co-Author:** Williams.S., Malomo. G, Usman.Z., Akinyemi O.,**Ihegwuagu N**., Ahmed.A. Jauro.R (2019), Towards a Gender Equality in Agricultural research, training and extension in Nigeria: a report of ARCN systems gender policy and strategy (2020-2030) ISBN:978 -978-974-578-4.

**Book Chapters:**

1. Gabriel Adebayo Malomo and **Nnemeka Edith Ihegwuagu** (2017). Some Aspects of Animal Feed Sampling and Analysis, Ideas and Applications toward Sample Preparation for Food and Beverage Analysis, Dr. Mark Stauffer (Ed.), InTech, DOI: 10.5772/intechopen.70856.

**3. Ihegwuagu Nnemeka Edith** & Emeje Martins Ochubiojo (2012) Food quality control, History, Present and future in Scientific, Health and social Aspects of the Food Industry, Intech open access publishers, ISBN 979-953-307-283-7.

**25**.2 **JOURNALS**

**1.** Alabi, O.O., **Ihegwuagu, N.E**., Isah, H., Abiloro, A.C., Simpa, O.J., Haruna, O.E., Aluwong, J.S. (2023). Economic efficiency of smallholder okra (Abelmoschus species) production in Kaduna State, Nigeria: Implication for poverty alleviation. . International Journal of Agriculture, Environment and Food Sciences, 7 (4), 853-863 DOI: https://doi.org/10.31015/jaefs.2023.4.16

**2.** Okwesili L. C., Okenwa J. C., **Ihegwuagu N.E**., Uhama K.C., Ubanwa E. D., Nwafor C.S., and Onyia V. C. Comparative Assessment of the Phytochemical Composition and Antimicrobial Activity of Ogirisi (New bouldia Leavis) Rootbark and Root wood Extracts Journal of Natural Sciences Research www.iiste.org ISSN 2224-3186 (Paper) ISSN 2225-0921 (Online) Vol.13, No.10, 2022. DOI: 10.7176/JNSR/13-10-01.

**3. N. E. Ihegwuagu**, R. Sha’Ato, T.A. Tor-Anyiin, L. Nnamonu, Fayomi. O. M. and M. Maaza;Kinetics and Equilibrium studies on the adsorption and desorption pattern for Dichlorvos insecticide on Starch Stabilized Silver Nanoparticles; Journal of Med., Biological and Pharm. Sci. Vol.18 No.3, 2021.pp 211-236.brpi ISSN:1211-4401

**4. .** O.M. Fayomi, D.C. Ike, \* M.A. Iorhemba, O.M. Ameh, **N.E**. **Ihegwuagu** and R.C. Kalu; Investigation on the corrosion inhibiting property of modified cashew nutshell liquid; Int. J. Corros. Scale Inhib., 2021, 10, no. 3, 1307–1322. doi: 10.17675/2305-6894-2021-10-3-27.

**5. .** **Ihegwuagu Nnemeka Edith**, Rufus Sha’Ato, Terrumun Amom Tor-Anyiin, Lami Angela Nnamonu and Malik Maaza; Effect of Temperature, pH and Additives on the Rate of Dichlorvos insecticide Release from starch silver nanoparticles encapsulate, Nigerian Journal of Plant Protection (NJPP).Vol.34, No.2, December, 2020.

**6.. Ihegwuagu Nnemeka**, Etuk-Udo Godwin, Fatokun Olakunle, Odusanya Olushola, Omojola Moses, Onyenekwe Paul Chdozie, Sha’Ato Rufus. Microwave Enhanced Synthesis of Silver Nanoparticles Using Orange Peel Extracts from Nigeria. Chemical and Biomolecular Engineering. Vol. 1, No. 1, 2016, pp. 5-11. doi: 10.11648/j.cbe.20160101.12

**7. Ihegwuagu Nnemeka Edith**, Rufus Sha’Ato, Terrumun Amom Tor-Anyiin, Lami Angela Nnamonu, Philip Buekes, Bertrand Soneab and Malik Maaza; Facile formulation of starch–silver-nanoparticle encapsulated dichlorvos and chlorpyrifos for enhanced insecticide delivery, the Royal Society of Chemistry and the Centre National de la Recherche Scientifique New J. Chem. 2016 ,40, 1777. DOI: 10.1039/c5nj01831e

**8. Ihegwuagu Nnemeka E.**, Rufus Sha’Ato, Terrumun.A. Tor-Anyiin, Lami A. Nnamonu, Xanthene Muller and Malik Maaza; Soil lixiviation and slow release pattern of starch-nano sliver particles-encapsulated dichlorvos insecticide formulation IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS) e-ISSN: 2319-2380, p-ISSN: 2319-2372. Volume 8, Issue 11 (2015), PP 15-24

**9. Ihegwuagu Nnemeka,** Mundi Sule, Adama Friday, Dalaham Philbus, Etuk-Udoh Godwin, Odunsanya Shola, Omojola Moses,and Sha’Ato Rufus;(2014).Rapid Synthesis of Silver Nano Particles Capped In Starch and its Anti–Mold Activity, International Journal of Innovation and Scientific Research, ISSN 2351-8014 Vol. 9 No. 1 , pages 16-25.

**10**. Omojola, Moses O., Afolayan, Michael O., Adebiyi, Adedayo B., Orijajogun, Joyce O.,Thomas, Sunday A. and **Ihegwuagu, Nnemeka E.** (2011): Further physicochemical characterization of *Parkiabiglobosa*(Jacq.) Benth fruit pulp as a mineral supplement, African Journal of Biotechnology Vol. 10(75), pp. 17258-17264.

**11. Ihegwuagu Nnemeka Edith**, Omojola Moses Olobayo, Emeje Martins Ochubiojo, and Olobayo Olufunsho Kunle,(2009): Isolation and evaluation of some physicochemical properties of *parkiabiglobosa* (African locust bean) starch. Pure Appl.Chem.vol.81, No.1, pp.97-104.

25.**3 Conference Proceedings**

**1. Ihegwuagu Nnemeka Edith**, Rufus Sha’Ato, Terrumun Amom Tor-Anyiin, Lami Angela Nnamonu and Malik Maaza; Effect of Temperature, pH and Additives on the Rate of Dichlorvos insecticide Release from starch silver nanoparticles encapsulate. In the book of abstracts of the 45th Annual Conference of the Nigerian Society for Plant Protection (NSPP), held at Helemah Event Centre, Uyo, Akwa Ibom from 15th -19th March, 2020. (NSPP/207 pp C/xxxvii)

**2. Nnemeka Edith Ihegwuagu**, Eucharia Nwaichi and Bradley D. Miller; Communicating Science: an integral part of Global Chemists’ Code of Ethics in the book of abstract of the American Chemical Society (ACS) Nigeria International Chemical Sciences Chapter, 3rd Annual Symposium Series & Workshop, which held at Le Meriden Hotel & Golf Resort, Uyo from 4th – 7th March, 2018**.** (pp 3).

**3. Ihegwuagu Nnemeka Edith**, Rufus Sha’Ato, Terrumun Amom Tor-Anyiin, Lami Angela Nnamonu, Malomo Gabriel A. and Malik Maaza. (2016): Synthesis, Adsorption and Desorption Pattern for Dichlorvos Insecticide in aqueous medium by Starch Stabilized Silver Nanoparticles. In the book of abstracts, 26**th** Annual National Conference of the Nigerian Environmental Society (NES), in Abuja from 3rd – 5th November, 2016**.** EIE/AAG 59, pp 54.

**4. Ihegwuagu Nnemeka**, Etuk-Udo Godwin, Fatokun Olakunle, Odusanya Olushola, Omojola Moses, Onyenekwe Paul Chdozie, Sha’Ato Rufus. Microwave Enhanced Synthesis of Silver Nanoparticles Using Orange Peel Extracts from Nigeria; in the book of abstract of the 4th Nano Today Elsevier Conference, at Maquis Marriot, Dubai, 6-10th December, 2015. (P1-10)

**5.** **Ihegwuagu Nnemeka**, Rufus Sha’Ato, Terrumun Amom Tor-Anyiin, Lami Angela Nnamonu, Malomo Gabriel A. and Malik Maaza; Starch stabilized Silver Nanoparticles, synthesis and their adsorption-desorption pattern for dichlorvos insecticide; in the book of abstract of the 4th Nano Today Elsevier Conference, at Maquis Marriot, Dubai, 6-10th December, 2015. (R5-11)

**6.** **Ihegwuagu Nnemeka,** Sha’Ato Rufus & Okwaraku Samuelson: Green and Rapid Synthesis of Starch Silver Nano Particles, Its Characterization and Anti-mold Activity; in the book of abstract of the Royal Society of Chemistry’sPan African Chemistry Network (PACN) Congress which held on 3rd – 5th December, 2013, at Addis Ababa, Ethiopia. (P021)

**7. Ihegwuagu Nnemeka,** Mundi Sule, Adama Friday & Omojola Moses; Ecofriendly synthesis of silver nanoparticles capped in corn starch and its anti-mold (fungal) activities in the book of abstract of the 36th annual international conference of the Chemical Society of Nigeria (CSN), at Minna Niger state, September, 16-20th 2013. C37, pp157

**8.** **Ihegwuagu Nnemeka** and Odukoya O.O. (2012); A survey of heavy metals levels as it relates to vehicular traffic and local activities in Abeokuta Street Dust in the book of abstracts of International Conference on Agrochemicals Protecting Crops, Health and Natural Environment (APCHNE- 2012); Role of chemistry in sustainable Agriculture.15-18th February, 2012, at IARI, New Delhi, India. PP-166, pp302.

**9.** **Ihegwuagu Nnemeka Edith**, Omojola Moses Olobayo, Emeje Martins Ochubiojo, : Isolation and evaluation of some physicochemical properties of *parkiabiglobosa* (African locust bean) starch in the book of abstract of

10. Omojola M.O, **Ihegwuagu N.E** (2010). Exploiting the industrial potentials of *Parkiabiglobosa*(Jacq.).Benth.Proceeding of RMRDC 2ndInternational Conference on Natural Resources and Development and utilization in Nigeria.

**25**.**4 Seminar Paper Presentations: Workshop Hosted/Facilitated**

**a) Nnemeka Edith Ihegwuagu**, Eucharia Nwaichi and Bradley D. Miller;

Communicating Science: an integral part of Global Chemists’ Code of Ethics, on 25th May, 2017, being a seminar of the Coordination Technical Research Programme at ARCN, Auditorium.

**b).** **Nnemeka Edith Ihegwuagu**, Eucharia Nwaichi and Bradley D. Miller;

Communicating Science: an integral part of Global Chemists’ Code of Ethics, on June 5th, 2017, being a seminar at the World Environment Day celebration of the Nigeria Environment Society (NES) at Women Centre Auditorium, Garki, Abuja.

**c) Nnemeka Edith Ihegwuagu**, Bengaz and Bradley D. Miller,

Publishing your Research work; on 10th June, 2017, being a seminar of the Coordination Technical Research Programme at ARCN, Auditorium.

**d).** International Union of Pure and Applied Chemistry(IUPAC)’s Global Women Breakfast 2020 (GWB2020): Workshop/ theChemical Society of Nigeria(CSN), Abuja Chapter networking event, held on the 12th, February, 2020 at the ARCN Conference Hall, Mabushi, Abuja. (Host & Oral Presentation).

**e). Ihegwuagu Nnemeka;** Sharing Workshop on the Spread and Control of Tomato Leaf miner, *Tuta absoluta* (Meynick,1917), in West and Central Africa**,** held on 22nd August, 2016, being a seminar of the Natural Resources Management at ARCN, Board Room.

**f).** **Ihegwuagu Nnemeka:** Pesticide Resistance, Extent, Mechanism and Detection. Being a paper presented at the Department of Chemistry and Centre for Agrochemical Technology (CAT), University of Agriculture, Makurdi, October, 2012.

**g).** Madugu Aliyu and **Ihegwuagu Nnemeka** (2009); **Back to office “train the trainer”** presentation on Strategic Management for Effective Implementation of Agricultural Policies; being a seminar of the Institutional Development Unit (IDU) at ARCN, Board room, August 11th 2009.

**Oral Presentations:**

**11. Ihegwuagu Nnemeka. E.**, Rufus Sha’Ato, Terrumun Amom Tor-Anyiin, Lami Angela Nnamonu, Malomo Gabriel A. and Malik Maaza. (2016): Synthesis, Adsorption and Desorption Pattern for Dichlorvos Insecticide in aqueous medium by Starch Stabilized Silver Nanoparticles. In the book of abstracts, 26**th** Annual National Conference of the Nigerian Environmental Society (NES), in Abuja from 3rd – 5th November, 2016**.** EIE/AAG 59, pp 54.

**12.** Malomo, G. A., **Ihegwuagu N. E.** and Anas K.I. (2016): The Agricultural Promotion Policy: Role of Research for Development. A paper presented at the Coordination of Technical Research Programme Seminar on the 10th August, 2016 at the ARCN, Board Room, Abuja, Nigeria.

13. **Ihegwuagu Nnemeka,** Ajah Francis .C and Musa Musa., (2016): Natural Resources Management (NRM) in ARCN System. Being a paper presented to expose the NRM division at the Coordination of Technical Research Programme Seminar on the 7th October, 2016 at the ARCN, Board Room, Abuja, Nigeria.

**14. Ihegwuagu Nnemeka,** Mundi Sule, Adama Friday, Dalaham Philbus, Odunsanya Shola, Omojola Moses,and Sha’Ato Rufus;(2013); Ecofriendly synthesis of silver nanoparticles capped in corn starch and its anti-mold (fungal) activities in the 36th annual international conference of the Chemical Society of Nigeria (CSN), at Minna Niger state, September, 16-20th 2013.

**17. Ihegwuagu Nnemeka,** Omojola Moses Olobayo, Emeje Martins Ochubiojo, and Olobayo Olufunsho Kunle**:** Isolation and evaluation of some physicochemical properties of *parkia biglobosa* (African locust bean) starch. A paper presented at CHEMRAWN XII, International Conference on the role of chemistry in world needs, held in University of Stellenbosch, South Africa December, 2nd - 6th 2007

 **Poster Presentations:**

**18. Ihegwuagu Nnemeka**, Rufus Sha’Ato, Terrumun Amom Tor-Anyiin, Lami Angela Nnamonu and Malik Maaza.: Starch stabilized silver nanoparticles, synthesis and their adsorption- desorption pattern for dichlorvos insecticide **presented at the 4th Nano Today Conference** (Nano Today 20 15) organized by Elsevier, the Institute of Bioengineering and Nanotechnology, and the journal Nano Today, held from 6th -10th December, 2015 in JW Marriott Marquis Hotel Dubai, UAE.

**19. Ihegwuagu Nnemeka**, Etuk-Udo Godwin, Fatokun Olakunle, Odusanya Olushola, Omojola Moses, Onyenekwe Paul Chdozie, Sha’Ato Rufus.: Microwave enhanced synthesis of silver nanoparticles using orange peel extracts from Nigeria: A poster presented at the **the 4th Nano Today Conference** (Nano Today 2015) organized by Elsevier, the Institute of Bioengineering and Nanotechnology, and the journal Nano Today, held from 6th -10th December, 2015, Dubai.

**20.** Sha’Ato Rufus, **Ihegwuagu Nnemeka,** Mundi Sule, Adama Friday, Dalaham Philbus, Etuk-Udoh Godwin, Odunsanya Shola and Omojola Moses: Green and Rapid Synthesis of Silver Nano Particles, Its Characterization and Anti-Mold Activity. A poster presented at the Royal Society of Chemistry’sPan African Chemistry Network (PACN) Congress which held on 3rd – 5th December, 2013 at the African Hall, ECA, Addis Ababa, Ethiopia. **Awarded best poster presenter of the congress.**

**21.** **Ihegwuagu Nnemeka** and Odukoya O.O. (2012);A survey of heavy metals levels as it relates to vehicular traffic and local activities in Abeokuta Street Dust at 2nd International Conference on Agrochemicals Protecting Crops, Health and Natural Environment (APCHNE- 2012); Role of chemistry in sustainable Agriculture.15-18th February, 2012, at IARI, New Delhi, India.

1. **INVENTIONS AND AWARDS**

 **Inventions:**

1. First to Isolate and characterize starch from *Parkia biglobossa* in Nigeria
2. Discovered the anti-mold properties of silver nano cassava starch in Nigeria.
3. Prepared a nano slow release formulations of cassava starch-silver encapsulated with dichlorvos and chlorpyrifos, Nigeria’s popularly used insecticides.

**Awards/ Grants:**

* + 1. **Awarded Training Grant** for Global Chemists Code of Ethics in Abuja, Nigeria by American Chemical Society(ACS), 2017
		2. **Awarded Research Grant** by Organization for Prohibition of Chemical Weapons (OPCW), The Hague, The Netherlands, 2015 for Ph.D. Research at the University of Agriculture, Makurdi.
		3. **Awarded Research Fellowship** by South and Eastern Africa Network of Analytical Chemists (SEANAC), 2014, to University of South Africa (Unisa) and iThemba LABS, Somerset West Cape Town South Africa.
		4. **Awarded, Best Poster Presenter** byRoyal Society of Chemistry’sPan African Chemistry Network (PACN) Congress which held on 3rd – 5th December, 2013, at Addis Ababa, Ethiopia.
		5. **‘Nneife’ Star Award** by the Ibite Okpatu Catholic Women Organization (CWO), Okpatu, Udi LGA, Enugu state, August, 2016.
		6. **‘Queen’ of** Okpatu Progressive Union (OPU), Women wing Abuja Branch, October, 2016-2018.
1. **ADDITIONAL CERTIFICATE**

Project Management for Development Professionals (PMD Pro 1 & 2) April 2019 and September, 2020

**Trainings**

* Certificate in Making Competency Based (Agricultural) Education Work (MEW) by ICRA, OKP, at Wageningen International Conference Center (WICC), Wageningen, Netherlands (Online and Physical); April -June,2023.
* Certificate as a CORAF/AICCRA member Community of Practice (CoP) as an expert to facilitate Foresight Analysis for climate and agricultural issues in West Africa; June 21st, 2023 @ Lomé, Togo.
* Certificate of participation in women’s leadership training in agriculture and climate research held in Dakar, Senegal, March 20-24th, 2023.
* Certificate of participation in Foresight Analysis for climate Resilient Agricultural Development training from 4th – 21st October, 2022 @ Dakar, Senegal.
* Certificate on Making Research Work, by ICRA, OKP, at Wageningen Center for Development Innovation, Wageningen, Netherlands May-July, 2022.
* Certificate on Rural Entrepreneurship for Africa, WCDI, Wageningen, Netherlands (online), August-December, 2021.
* Certificate on Evaluating & Managing for sustainable Development Impact, WCDI, Wageningen, Netherlands March-June, 2021 (Online)
* Project Management for Development Professionals: PMD Pro Certification – 2019 & 2020
* Certificate on Integrated Pest Management & Food Safety at Wageningen Center for Development Innovation (WCDI), Wageningen University & Research, Netherlands, June, 2018.
* Econometrics using Stata Analytical software by IFPRI at IFPRI Office, 4th-9th March, 2019
* Issues on Agriculture at IFPRI Office, 29th -30th November, 2018.
* Integrated Pest Management (IPM) and Food Safety Short Course at Wageningen Centre for Development Innovation, Wageningen University of Research, Netherlands, June 4th to June 22nd, 2018.
* Monitoring and Evaluation at Agura Hotels Abuja by Bignte Company held on 23rd March, 2018.
* Monitoring and Evaluation at ARCN auditorium by IFPRI between 19-20th, March, 2018.
* Agricultural Research Policy and communication strategy training by International Food Policy Research Institute (IFPRI), held at ARCN building between 27-28th November, 2017.
* American Chemical Society (ACS)’s Global Chemists’ Code of Ethics (GCCE) Science and Technology Leadership Institute (STLI) workshop/training, which held 15-19 May, 2017 in Nairobi, Kenya.
* West African Agricultural Productivity Programme(WAAPP), Nigeria training on environmental safeguards issues, held at blue Island hotel at Enugu state from 18-19 February, 2013.
* Tomato leaf miner ,Tuta absoluta control training held at Pullman hotels, Dakar, Senegal, 7-9th May, 2013.
* Chinese Agricultural Science Tour/ training on agric. biotechnology for English speaking countries, Beijing, China, October -November, 2012
* Institute of Chartered Chemist of Nigeria (ICCON)’s 3rd Mandatory Continuing Professional Development (MCPD) workshop, held at Makurdi between 7-8th, September, 2011.
* Training on ARCN Management Information System (MIS) Requirements Survey, 8-9th June, 2011.
* Training on the development of ARCN’s operational plan, as part as Part of ARCN: IFPRI Collaborative Programme, 4- 6th July, 2010.
* Train the trainer & Learning Workshop on Priority Setting of Agricultural Research Programmes and Projects, as part as Part of ARCN:IFPRI Collaborative Programme,7-13th June, 2010.
* Train the trainer & Learning Workshop on “Capacity and Competency Survey of the Nigerian Agricultural Research System” as Part of ARCN: IFPRI Collaborative Programme, 17th -18th May, 2010.
* Trainee in the ARCN/IFPRI collaboration in Strengthening Innovation Capacity of Nigerian Agricultural Research Organizations, 2010.
* Strategic Management for Effective Implementation of Agricultural Policies, Accra, Ghana, 2nd - 8th August, 2009.
* Train the trainer & Learning Workshop on “Managing Agricultural Research within the Innovation System Perspective” as Part of ARCN: International Food Policy Research Institute (IFPRI) Collaborative Programme, 2009.

**E. OTHERS**

1. **Health status:** Good
2. **Hobbies**

Farming (Oyster mushroom), Driving, Speaking, and Outgoing.

1. **Social Media handles :**

 **Facebook http://www.facebook.com/nnemeka.ihegwuagu?sfnsn=scwspwa&mibextid=RUbZ1f**

**Twitter @nnemekaI**

Linkedin

<https://www.linkedin.com/in/nnemeka-ihegwuagu-ph-d-8a9a296a?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_app>

1. **REFEREES**

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