

## CURRICULUM VITAE



**Full name:** AGUNWAMBA JONAH CHUKWUEMEKA

**Data of Birth:** 16th July, 1958.

**Place and State of Birth:** Mbom, Ibeku, Abia State.

**Nationality:** Nigerian

**State of Origin:** Abia

**Local Government Area:** Umuahia North

**Permanent Home Address:** Umukwue, Umumgboho, Mbom Village.

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**Postal Address:** P.O. Box 3127, UN Campus  
Post Office, University of Nigeria, Nsukka, Nigeria

**Marital Status:** Married

**Number and Ages of Children:** Three (3): 25 years, 23years, 20 years.

### EDUCATIONAL INSTITUTION ATTENDED WITH DATES:

University of Nigeria, Nsukka	1986 - 1992
University of Nigeria, Nsukka	1979 – 1984
Olokoro High School, Umuahia	1972 – 1977
Emede and Mbom Primary School, Umuahia	1965 - 1972

### ACADEMIC QUALIFICATIONS OBTAINED WITH DATES:

Ph.D. (Environmental Engineering) :	1992
M.Eng. (Water Resources):	1987
B.Eng. (Civil Engineering):	1984
West African School Certificate	1977

## CAREER HISTORY

Professor	2000
Associate Professor, University of Nigeria, Nsukka	1997 – 2000
Senior Lecturer, University of Nigeria, Nsukka	1994 – 1997
Lecturer I, University of Nigeria, Nsukka	1991 – 1994
Lecturer II, University of Nigeria, Nsukka	1989 – 1991
Assistant Lecturer, University of Nigeria, Nsukka	1988 – 1989

## AREAS OF SPECIALIZATION:

1. Appropriate Technologies for Water and Wastewater Treatment
2. Water Quality, Drainage and Erosion Control
3. Waste Stabilization Ponds
4. Modelling and Application of Operations Research
5. Wastewater Reuse
6. Pollution Prevention and Control.

## WORK EXPERIENCE INCLUDING FULL DETAILS:

### Consultancy and field work

1. Consultant, Nigerpet Structures Ltd., Uyo for the Design of Sanitary Landfill Uyo, 2014 -
2. Consultant, Nigerpet Structures Ltd., Uyo for the Design of Stilling Basin and Drop Structures to Control Erosion and Flood Off Brooks street Uyo, 2014-
3. Consultant to Gazens Ventures Ltd. for the Design of Wastewater Treatment Plant for Vitabiotics Nig. Ltd., Lagos, 2014.
4. Consultant to Enjosen Consult for the Design of Flood and Erosion control in University of Calabar, Calabar, 2013 – 2014.
5. Consultant, Design of Treatment Plant in Beta Glass Plc, Ughelli for Mart-Allen Co. Ltd., Asaba, 2010 – 2013.
6. Consultant, Rehabilitation and Design of Expansion Works for UNN Sewage Treatment Plant, 2012.
7. Design and Supervision of Sewage Treatment Plant in NECH & WORLD Ltd for ABAKAL Integrated Services, 2006.
8. Chairman of a Team of Professionals on the Monitoring and Supervision of Rehabilitation Work in 23 Hostels of the University of Nigeria, Nsukka.

9. Consultant, Erosion Control of Ako Okwoli Transit Camp Axis, University of Nigeria, Nsukka, 2005
10. Upgrading and Design of Wastewater Treatment Plant in Elf Oil Company, Port Harcourt for Gozzim Associates, PH, 2005.
11. Environmental Baseline Study (EBS) / Impact Assessment (EIA) of Amadi Creek Estate project for PRODECO NIGERIA LTD under CASELLA Science and Environment Nig. Ltd., 2005.
12. Consultant Involved in the Preparation of the Environmental Impact Assessment of the Oron and Nwaniba Dualization road Projects in Akwa Ibom State, 2004 for Environmental Management Consultants Limited (EMCL).
13. Consultant–MOFEL Engineering Consultants Ltd., Design/Supervision of Erosion/Flood Control project in Ukwu Local Government Area for NDDC, 2001.
14. Erosion Control & Estate Development for Chief S. Onyishi, 2003.
15. Consultant–MOFEL Engineering Consultants Ltd., Design/Supervision of Erosion/Water Development/Pollution Control in 19 Communities of Enugu State, 1999.
16. Consortia Member, Reliable Water Resources Database: Nigerian Water Resources Management Strategy Federal Ministry of Water Resources and Rural Development, 1999 – 2000.
17. Hydraulic/Hydrology Engineer involved in planning, impact assessment, design and supervision of UNDP assisted Erosion/Flood control projects in 7 States of Nigeria – Zomak Associates (UNDP Supervising Consultant), 1996 – 1998.
18. Analysis and evaluation of the suitability of different local sand material for use as filter materials for water treatment – National Water Rehabilitation Project – Zone F. DHV Consultants, 1996.
19. Feasibility studies on Ukehe Gully Erosion Project – Igbo-Etiti South Local Government, Enugu State, 1995.
20. Principal Consultant for the Design of Drilling Fluid Treatment Plant in Environmental Logistics company for Environmental Associates Ltd., 2005.
21. Principal Consultant for Mart–Elen Co. Ltd., Lagos for design and supervision of sanitary landfill for delta State Ministry of Environment.
22. Consultant, Investigation of Alleged Pollution of Ibalegbe River by Beta Glass Plc, Ughelli for Mart-Ellen Co. Ltd, Asaba for Delta State Ministry of Environment.
23. Principal Consultant, Study and Design of Small Earth Dams at Ogboli, Agwu, Enugu State by Enjosen Consult for Anambra-Imo River Basin Authority.

24. Supervision of Erosion Control Project at Okundi, Boki LGA, by Enjosen Consult for Cross-River Basin Authority.

**Administration within the university**

1. Chairman, Anti Corruption and Transparency Unit, 2016.
2. Director, National Centre for Equipment Maintenance and Development, 2014 –
3. Dean, Faculty of Engineering 2010 – 2012.
4. Head of Department, 1998/1999 – 2001/2002; 2006/2007 – 2009/2010.
5. Chairman, NUGA 2008 Utilities Sub-Committee, 2005 – 2008.
6. Chairman, Committee on Erosion Control of Aka – Okwoli Transit Camp Axis, 2006.
7. Chairman, Faculty Committee on Strategic Planning, 2006.
8. Member, Committee on Centre for Environmental Management and Control (CEMAC), University of Nigeria, Nsukka, Enugu Campus, 2004 –
9. Treasurer of Herbert Macaulay Memorial Lecture Foundation (H MML), 2003 – 2005
10. Co-ordinator, Committee on Flood and Erosion Control, 2003 – 2004.
11. Chairman, Hostel Rehabilitation Supervision/Monitoring team (The project involved the rehabilitation of 23 hostels in UNN), 2003 – 2004.
12. Member, University Advisory Management Committee (UAMC) 2003 – 2004.
13. Chairman, Committee on Rehabilitation of Zik's Flat Hostels and Remodelling of the Vice Chancellor's / Administrative Building, 2003 – 2004.
14. Member, Project and Infrastructure Sub-committee, 2003 – 2004.
15. Chairman, Faculty Curriculum Committee, 2002 – 2004.
16. Co-ordinator, In-House Training Programme for Stagnated Workshop/Lab Supervisors, UNN, 2001 – date.
17. Co-ordinator, Departmental and Faculty of Engineering Distance Learning Programme, 1998 – 2005.
18. Co-ordinator of Departmental Postgraduate Studies; 1997 – 2003.

19. Has served in various committees at various times in the University such as Students Entrance Committee, Time-Table, Building Services, Computer Services and Environmental Protection since 1988. Staff Adviser to Professional Association of Civil Engineering Students (1988 – 1989, 1990 – 1996) and Nigerian Universities Engineering Students Association (1993 – 1998).
20. Chairman, Committee on the Rehabilitation of Jimbaz, Physical Sciences and the School of General Studies Building.
21. Chairman, Committee on the Review of Proposal for Bachelor of Technology (B. Tech) in Science Laboratory Technology.

### **COMMUNITY SERVICE(S) RENDERED:**

#### **National Committees**

1. Member of ad-hoc Accreditation Panel for evaluation of the Undergraduate Degree Programme in Engineering in Abubakar Tafawa Balewa University, Bauchi (Agricultural, Civil, Chemical, Petroleum, Electrical/Electronic, and Mechanical), Obafemi Awolowo University, Ile-Ife (Civil, Mechanical, Electrical/Electronic, Computer Science/Engineering), University of Ilorin, Ilorin (Civil, Electrical/Electronic, Mechanical), November, 2014.
2. Member of ad-hoc Accreditation Panel for evaluation of the Undergraduate Degree Programme in Engineering in the University of Ado-Ekiti, Ado-Ekiti (Agric, Civil and Mechanical) and Obafemi Awolowo University, Ile-Ife (Material and Metallurgical), November, 2012.
3. Examiner, PTDF Oversea Scholarship Scheme Scholarship – Environmental Remote Sensing and Health Safety and Environment, 2012.
4. Member Representing the Nigerian Society of Engineers), National Committee on Drinking Water Quality Standard, Abuja, 2006 – 2007
5. Member, Committee of Reviewers on the Draft Report of the EIA for the AMA Brewery Project, Amaeke, Ngwo, Enugu State for the Federal Ministry of Environment, 2001.
6. Member, Committee on National Hydrological Data User's Workshop Kaduna, 19<sup>th</sup> – 20<sup>th</sup> June, 2001. Federal Ministry of Water Resources, Abuja.
7. Member, Development of Hydrological Database: Nigerian WRMs, Federal Ministry of Water Resources, Abuja, 1999.
8. Member, Integration of Water for Sustainable Livelihood In Education Curriculum of Higher Institutions In Nigeria. National Water Res. Institute Kaduna, 2009.

### **State Level**

1. Workshop on Environmental Sanitation and Sustainable Solid Waste Management Organized by Enugu State Environmental Protection Agency, July 19, 2001.
2. Reviewer of proposal on the solutions of environmental degradation in Enugu State – Enugu State Environmental Protection Agency, 1996.

### **Board Membership/Chaplaincy**

1. Member, Board of Governors of DOYEN Academy, Enugu, 2009 – 2011.
2. Chaplain, Chapel of Grace, Bishop Shanahan Hospital, Nsukka, 1996 – date.
3. Advisory Board Member–Grassroots Environmental Action Team (An NGO), 1996

### **Nigerian Society of Engineers (Nsukka Branch)**

1. Committee for Organizing refresher courses, 1999.
2. Committee for organizing refresher courses on Computer Applications, 2000
3. Treasurer, Nigerian Society of Engineers, Nsukka Branch, 2003 – 2008

### **Other Activities**

1. Key Note Speaker, Chemical Society of Nigeria Conference 28<sup>th</sup> July, UNN 1994.
2. Resource person, workshop organized by the Nigerian Society of Engineers, Enugu Branch, 2007.
3. Session Chair: Urbanization and the Environment at the International Conference on Infrastructure Dev. and the Environment (ICIDEN – Abuja, 2006), Friday, Sept. 15, 2006 (10.05 – 12.05 pm) Ballroom, (D), Sheraton Hotel, Abuja
4. Resource Person: In-House Training Programme for Sewage Staff, Nsukka and Enugu Campuses 1998 and 2001.
5. Preparation of Engineering Curriculum – Abia State University, 1996.
6. A member of interview panelist for SPDC Nigeria Delta Postgraduate Scholarship Award Organized by Karamat Ltd., Warri Delta in SPDC, PH, 2013.
7. A member of interview panelist for SPDC Nigeria Delta Postgraduate Scholarship Award Organized by Karamat Ltd., Warri Delta in SPDC, PH, 2014
8. Key Note Speaker, Chemical Society of Nigeria Conference, 4th May, UNN, 2016.

## **CONTRIBUTIONS TO OTHER NATIONAL AND INTERNATIONAL UNIVERSITIES**

### **EXTERNAL EXAMINATION**

#### **Undergraduate Programme**

External Examiner to some Nigerian Universities for undergraduate programmes in Civil Engineering such as Enugu State University of Technology, Enugu (2003 – 2006); Federal University of Technology, Yola (2003 – 2005; 2007 – 2010); Federal University of Technology, Owerri (2003 – 2005); Federal University of Agriculture, Makurdi (2004 – 2006); Federal Polytechnic, Idah (2003 – 2007); Nnamdi Azikiwe University 2008 – 2010); University of Benin, (2007 - 2010), Michael Okpara University of Agriculture,

Umudike, Umuahia (2008 - 2010); University of Uyo, Uyo (2007 – 2009); Rivers State University of Science and Technology, PH (2008 – 2010, 2016); Bayero University Kano (M. Eng. 2008 - 2013); University of Abuja (2008 – 2010. Akwa Ibom State University (2016 – 2018).

### **Postgraduate External examinations**

The candidate was the external examiner of the following number of postgraduate students in the Universities indicated.

<b>S/No</b>	<b>Number of PG Students</b>	<b>Year</b>	<b>Category</b>	<b>Dept</b>	<b>University</b>
1	2	2009	Ph.D	Civil	University of Benin
	1	2015	“	“	“
2	1	2010	Ph.D	Mech	University of Benin
3	10	2011-2013	M.Eng	Civil	University of Benin
	1	2014	“	“	“
	14	2015	“	“	“
	2	2016	“	“	University of Benin
4	1	2008	Ph.D	Civil	Nnamdi Azikiwe University
	4	2008	M.Eng.	Civil	Nnamdi Azikiwe University
5	4	2013	M.Eng	Civil	Nnamdi Azikiwe University
6	5	2009	M.Eng	Civil	Bayero University, Kano
7	7	2010	M.Eng	Civil	Bayero University, Kano
	2	2014	M.Eng	“	Bayero University, Kano
8	1	2014	Ph.D	Civil	University of Ibadan
9	2	2010, 2011	Ph.D	Civil	Covenant University
10	2	2011	Ph.D	Civil	University of Port Harcourt
11	2	2012	M.Eng	Civil	University of Port Harcourt
12	3	2012	PGD	Civil	Anambra State University
	14	2014	“	“	“
13	3	2014	M.Eng	Civil	Federal University of
	4	2015	“	“	Technology, Minna

### **Visiting Position/Resource Person**

1. Resource Person for Postgraduate Masters Programme at the Centre for Occupational Health, Safety Environment, Institute of Petroleum Studies (IPS), UNIPORT 2012 – date.
2. Resource Person for Centre for Occupational Health, Safety and Environment (COHSE) Ph.D Programme, 2015.

3. Visiting professor for supervision of two Ph.D candidates, Bayero University, Kano, 2008 - 2014
4. Visiting Professor in Postgraduate Studies, Department of Civil Engineering, Federal University of Technology, Owerri, 2002 – 2004, 2006 – date.
5. Sabbatical leave, Department of Civil Engineering, Federal University of Technology, Owerri, January 2005 – January, 2006.

### **Assessment of candidates for professorial position**

The candidate was the assessor of several persons for professorial positions in the following Universities: University of Uyo, Uyo, 2010 (1); University of Port Harcourt, Port Harcourt, 2009 (1), Federal University of Agriculture, Makurdi, 2009 (2); Federal University of Technology, Minna 2010 (1); University of Lagos, Lagos, 2009 (3); University of Ibadan, Ibadan, 2010 (1). Federal University of Agriculture, Abeokuta, 2010 (2); Nnamdi Azikiwe University, Awka(2); Ahmadu Bello University, Zaria, 2011 & 2013 (3); University of Benin, Benin 2011 (3); Akwa-Ibom State University (1), 2013; Rivers State University of Science and Technology, Port Harcourt (2), 2016.

### **MEMBERSHIP OF PROFESSIONAL BODIES :**

		<b>POSITION</b>	<b>DATE</b>
1.	Strategic Institute for Natural Resources and Human Development (FRHD)	Fellow	2010
2.	Institute of Industrial Administration	Fellow	2008
3.	Chattered Waste Manager (Waste Management Society of Nigeria) (10285)	Member	2007
4.	Council of Nigerian Institution of Civil Engineers	Member	2001 / 2002.
5.	Nigerian Institution of Engineering Management. (EM.0036)	Member	2000
6.	International Association of Water Quality.	Member	2000
7.	Local Branch of Nigerian Society of Engineers.	Treasurer	2003-2008
8.	Council for the Regulation of Engineering in Nigeria	Member	2001(R.8629)
9.	Nigerian Society of Engineers (NSE).	Member	1998(08863)
10.	New York Academy of Science.	Member.	1996
11.	Nigerian Institute of Civil Engineers	Member	



## **PROJECTS/FUNDS ATTRACTED**

### **To Institutions**

1. Attracted 30 Million Naira worth of equipment to the Department of Electrical Engineering, UNN through Prof. Okoro early initiative from the NNPC, 2012.
2. Established Iweka Memorial Scholarship Foundation to honour him as the first Igbo Engineer, 2012
3. Fund for the rehabilitation of a community hospital in Mbom, Ibeka Umuahia North Local Government Area.
4. Piloting the ongoing linkage between the University of Philadelphia, USA and the Faculty of Engineering, UNN, 2015.
5. Attracted more than 200 books for the Faculty of Engineering, Michael Okpara University, 2015 from the NCC.
6. Attracted 101 computers for the Faculty of Engineering, UNN and another 101 for Bishop Shanahan School of Midwifery, Nsukka.

### **Personal/Group Research Grants Attracted**

1. Education Trust Fund grant for over 4 million naira to study Biodegradation and Recycling of cellophane bags, 2012.
2. Wastewater Pond Treatment by Accelerated Solar Radiation: Efficiency and Economy – Energy Research and Development Grant, 1999.
3. Modeling Mixing and Stratification in Waste Stabilization Ponds – Senate Research Grant, 1999.
4. Environmental Impact Assessment of the Nsukka Campus: Design and Applications – Senate Research Grant No. 94/143, 1994.
5. Bacteria Kinetics in Waste Stabilization Ponds – Senate Research Grant 92/74, 1992-1993.
6. Studies on Waste Stabilization Pond – Senate Research Grant No. 610, 1989-1992.

## **FULL DETAILS OF TEACHING AND RESEARCH EXPERIENCE:**

### **Teaching**

Has been a lecturer in Water and Waste Treatment and Management related courses since 1988. *Undergraduate Courses:* Engineering Analysis, Public Health Engineering, Water Resources and Environmental Engineering, Hydrology. *Postgraduate Courses:* Advanced Hydrology, Advanced Hydraulics, Computational Techniques in Civil Engineering; Water Quality, Erosion Control; Water Supply, Treatment and Distribution, and Advanced Wastewater Treatment; Environmental Microbiology (Dept. of Microbiology, UNN).

**Conferences, Seminars and Workshops Attended:**

<b>S/No</b>	<b>NAME, DATE AND PLACE</b>	<b>TITLE OF PAPER PRESENTED</b>
1.	28 <sup>th</sup> Annual Conference of San (Engineering Section) 5 – 9 April, 1987, FUT, Owerri.	Equation of Cake Growth
2.	29 <sup>th</sup> Annual Conference of San (Engineering Section) 9 – 11 May, 1988, UNICAL, Calabar.	Cost Minimization and Comparative Design of Sludge Filtration.
3.	2 <sup>nd</sup> Conf. on Engineering and Technological Dev., 18 – 20 <sup>th</sup> Sept., 1989, UNIBEN.	The Application of Geometric Programming to Sludge Filtration.
4.	1 <sup>st</sup> International Conference of Accelerated Rural Dev., April 1991, UNN.	Modelling Bacterial Activities in Wastewater Treatment Ponds.
5.	Annual NSE Conf. on Engineering and Technology in the Eradication of Poverty in Nigeria, Nov. 30 <sup>th</sup> – Dec. 1993.	Poverty, Sub-sustainable Development and Environmental Technology (Lead Paper).
6.	NEPA International Workshop 29 – 30 March, 1994, Lagos.	Towards Environmentally Safe Electric Power System (Part I and II).
7.	1 <sup>st</sup> National Conf. of Niprod. Engrs. on Manufacturing Techn. in a Low Technology Economy, 22 <sup>nd</sup> – 24 <sup>th</sup> June, 1994, UNIBEN.	Environmentally Sound Manufacturing Technology in Nigeria.
8.	8 <sup>th</sup> Conf. of Chemical Society of Nigeria on Waste Management in Chemical Industries, 28 <sup>th</sup> July, 1994, UNN.	Industrial Waste Management in Nigeria a Review Integrated Approach and Future Development (A Key Note / Lead Paper).
9.	8 <sup>th</sup> Conf. of Chemical Society on Waste Management in Chemical Industries 28 <sup>th</sup> July, 1994, UNN.	Pollutants from Warri Refinery Wastewater.
10.	8 <sup>th</sup> Conf. of Chemical Society on Waste Management in Chemical Industries 28 <sup>th</sup> July, 1994, UNN.	Characteristic and Treatability of Cassava Wastewaters.
11.	Annual Conf. of Nigerian Association of Hydro geologists 4 <sup>th</sup> Dec., 1994, Maiduguri.	Efficient and Least Cost Maintenance of Water Supply Schemes in Rural Areas.
12.	7 <sup>th</sup> Annual Conf. of NSAE, April, 1995, FUT, Ondo	Optimal Design of WSP Using Geometrical Programming.
13.	Sustain Africa “95” International Conference on Implications of Climate Change. Global Warning and Environmental Degradation in Africa, Nigeria Meteorological Society, 6 – 11 <sup>th</sup> Nov., 1995, Lagos.	Climate Change: Findings, Engineers Roles and Implications.
14.	2 <sup>nd</sup> International Conference on the Implementation of Renewable and Alternative Energy Technologies, National Centre for Energy Research and Dev., 4 <sup>th</sup> – 8 <sup>th</sup> Dec., 1995, UNN.	Waste Treatment by Accelerated Solar Radiation: Economy and Efficiency.
15.	International Conference on Power Systems	Socio – Economic Impact of Solar

	Operation & Planning – III ICPSOP '97, Jan. 14 – 17 <sup>th</sup> , 1997, Abidjan.	Energy Brooding System.
16.	1 <sup>st</sup> Regional Symposium on Hydrology of Tropical Watershed (Organised by NSAE) 16 – 19 <sup>th</sup> March, 1997, UNN.	Optimal Design of Rain-gauge Network.
17.	- Do -	Field Erosion Study and Model Verification.
18.	Workshop on Ecological Modeling, Oct. 14 – Nov. 10 <sup>th</sup> , 1996, ICTP, Trieste, Italy.	–
19.	International Workshop on Biotechnology: Towards a Sustainable Agricultural Development in Africa, 10 – 14 <sup>th</sup> August, 1997, Federal University of Agriculture, Umudike.	Experimental Verification of the Bacterial Die-off Coefficient Equation
20.	3 <sup>rd</sup> International Conference on Power Systems Operation and Planning, Jan. 14 – 18 <sup>th</sup> , 1997, Abidjan, Cote d'Ivoire.	Socio – Economic Impact of Solar Energy Brooding System.
21.	Postgraduate Course on Optimization, Feb. 28 – March 20 <sup>th</sup> , 1999, National Mathematical Centre, Abuja, Nigeria.	–
22.	International Seminar on Performance of Large and Small Scale Irrigation Schemes in Africa, Nov. 15 – 19 <sup>th</sup> , 1999, Abuja.	Anticipation and Mitigation of Environmental Problems for Sustainable Agriculture with Particular Reference to Irrigation.
23.	Annual Conference Organized by the Nigeria Society of Agricultural Engrs. Jan. 11 – 14 <sup>th</sup> , 2001, Enugu, Nigeria.	Modeling the Performance of Anaerobic Digesters and Biogas Production.
24.	7 <sup>th</sup> Symposium on Sustainable Water Resources Dev., 2003, Arba Minih Water Technology Institute.	Field Erosion and Models Verification.
25.	16 <sup>th</sup> National Conference Organized by Nigerian Assoc. of Hydro-geologist (NAH), 5 – 9 <sup>th</sup> Oct., 2003, Owerri.	The Effect of Oily effluents from Marine Vessels on Aquatic Environment.
26.	40 <sup>th</sup> Annual International Conference Organized by Nigerian Geosciences Society (NMGS), 7 – 13 <sup>th</sup> March, 2004, Maiduguri.	Prediction of Pollutant Movement in Soils.
27.	2 <sup>nd</sup> African Regional Conference on Engineering Education, 20 – 22 <sup>nd</sup> 2004, Lagos.	Funding of Engineering Education
28.	1 <sup>st</sup> Annual Conference on Science and Technology, 16 – 17 <sup>th</sup> Nov., 2005, Uyo.	Water Quality Index Assessment of Nwangele River.
29.	International Conference on Infrastructure Development and the Environment (ICIEN – Abuja 2006) Abuja, Nigeria Sept. 10 – 15, 2006	Impact of Maintenance Status of Vehicles on Exhaust Pipe Emissions
30.	Ditto	Prediction of the rate and extent of groundwater reserve pollution by disposal sites

31.	Ditto	Analysis of the Environmental and Socio-Economic Impact of Noise Pollution in Eleme Petrochemical Company Limited.
32	NSE Enugu Branch Meeting In Enugu State, Gold Value Hotel, New Heaven, Sept. 29, 2011	Challenges of Waste Management
33	Network for Applied Systems Analysis and Optimization, UNN, 28 Nov – 2 Dec, 2011.	Engineering Application of Numerical Analysis.
34	International Conference and Exhibition on Environmental Management by IPS Port Harcourt 22 – 28 May, 2013, Lagos.	Comparative Studies on the use of ordinary and de-oiled Moringa Oleifera in the Treatment of abattoir Wastewater.

## LIST OF PUBLICATIONS AND DATES

### Books

1. Ugwu, O.O. and Agunwamba, J.C. (Ed). Civil Engineering Practice and Entrepreneurship. De – Adroit Innovations, Ogu N/L, Enugu, 2011.
2. Agunwamba, J.C. Chukwuma, G.O. and Mbajiorgu, C.C. Book on Proceedings of The First Regional Symposium on Hydrology of Tropical Watersheds. De – Adroit Innovation, 2010.
3. Agunwamba, J.C. (Coordinating Editor). An Introduction to Engineering. De – Adroit Innovation, Enugu, 2008.
4. Agunwamba, J.C. Engineering Mathematical Analysis. De-Adroit Innovations, Ogui N.L, Enugu 2007.
5. Agunwamba, J.C. Waste Engineering and Management Tool. Immaculate Publications Ltd., Enugu 2003.
6. Agunwamba, J.C. Water Engineering Systems. Immaculate Publications Ltd., Enugu 2001.

### Journal publications

1. Agunwamba, J.C., Aho, M.I., Iorwua, M.B. and Tiza, M.T. response surface optimization of treated turbid water using banana stem juice. Int. J. for Innovative res. In Multidiplinary field. 2 (8) 2016, 183 – 192.
2. Aho, M.I. and Agunwamba, J.C. Effect of particle size of Moringa Seed on Raw and Wastewater treatment in Makurdi. Int. J. Sci. and Engrg Res. (In Press), 2016.

3. Aho, M.I. and Agunwamba, J.C. Use of water extract of Moringa Oleifera seeds (Wemos) in raw water treatment in Makurdi, Nigeria. *American J. Engrg Res. (AJER)* 3 (2), 2016, 50-53.
4. Igwe, E.A. and Agunwamba, J.C. Re-Characterization of Strength Properties of Asphalt Concrete Mixtures Using Non-Bituminous Modifier-Candle Wax. *Int. J. Concrete Techn.* 2(1), 2016, 30 – 36.
5. Nwankwojike, N.B; Onwuka, O.S., Agunwamba J.C and Adama, C.J. Mechanistic model for predicting specific energy consumption and throughput of palm nut-pulp separator. *Applied Mathematical Modeling* 2016, (40), 59778-5987.
6. Nwidi, I.C. and Agunwamba, J.C. Comparative Analysis of Some Existing Kinetic Models with Proposed Models in the Biosorption of three Heavy Metals in a Flow-Batch Reactor Using Five Selected Micro-Organisms. *NIJOTECH*, 35(3), 2016, 681 – 685.
7. Odiete, W.E. and Agunwamba, J.C. Effect of Aspect ratio on the oil separation efficiency of conventional oil/water separators. *Int. J. of Science and Engineering Res.* 7(3), 2016. 840 -847.
8. Odiete, W.W. and Agunwamba, J.C. residence Time versus aspect ratio of conventional oil/water separators *Int. J. of Sci. and Engrg. Res.* 32(1), 2016, 16 - 19.
9. Oghenefejiri, B., Nwaogazie, I.L. and Agunwamba, T.C. Exploratory factor analysis and assessment of energy potential of generated solid waste in Nigeria. *Int. J. of Civil Engineering and Technology.* 7(1), 2016, 274 – 289
10. Okonkwo, U.N. and Agunwamba, J.C. Classical Optimization of Bagasse Ash Content in Cement-Stabilized Lateritic Soil. *NIJOTECH.* 35(3), 2016, 481 – 490.
11. Adaba, C.S. and J.C. Agunwamba, Adequacy of Drainage Channels in a Small Urban Watershed in Nigeria. *NIJOTECH*, Vol. 33(4), pp 585 – 594, 2015.
12. Adedokun, T.A. and Agunwamba, J.C. Assessment of Pollution-Induced Dissolved Oxygen Variation in River Challawa. *NIJOTECH.* Vol. 34(3), 616-623, 2015.
13. Godwin, G.; Agunwamba, J.C. and Ugbebor, J.N. Comparison of Noise Pressure Level from Flow Station, Multiple Noise Sources with Federal Ministry of Environment Standard. *J. of Env. Sci., Computer Sci. and Engr. and Tech.* vol. 4(3), 393 – 408, 2015.
14. Godwin, G.; Agunwamba, J.C. and Ugbebor, J.N. Modeling of Noise Variations from Multiple Noise Sources with Distance. *Int. J. on Emerging Tec.* Vol. 6(1): 15 – 28, 2015.

15. Igwe, E.A. and Agunwamba, J.C. Impact of Loading Frequency on Fatigue Life of Flexible Pavements: Case Study of Candle wax Modified Asphalt Concrete Mixtures for Heavy Traffic. *Int. J. Emerging Trends in Engrg. Res.* 3(9), 2015, 94 – 104.
16. Ngene, B.U., Agunwamba, J.C., Nwachukwu, B.U. and Okoro, B.C. Comparing Network Design Approaches in Areal Rainfall Estimate of Nigeria River Basins. *Vol.10 (16), 7033 -7042, 2015.*
17. Ngene, B.U., Agunwamba, J.C., Theophilus, T.I. and Emenike, P.C. Influence of Escarpment on Rainfall Pattern: A case Study of Udi-South Easter Nigeria. *Int. J. Applied Engrg. Researsch.* Vol.10 (15), 35045 – 35049.
18. Ngene, B.U; Agunwamba, J.C., Nwachukwu, B.A and Okoro, B.C. The challenges to Nigerian raingage network improvement res. *J. of Environment and earth Science.* 7(4), 68 -74, 2015.
19. Nwidi, C.I. and Agunwamba, J.C. Selection of Biosorbents for Biosorption of Three Heavy Metals in a Flow-Batch Reactor Using Removal Efficiency as Parameter. *NIJOTECH.* Vol. 3(2, pp 406 – 413, 2015.
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197. Agunwamba, J.C. Environmentally sound manufacturing technology in Nigeria. Proc. of the 1<sup>st</sup> National Conference of NIProd. E., 180-193, 1994.
198. Agunwamba, J.C. Rural water supply: success and failures. In Rural Dev. In Nigeria: Concepts processes and prospects (E.C. Eboh et. al., Ed.) Auto Century Publishing Co. Ltd., 103-118, 1994.

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201. Agunwamba J.C. Stratification of shallow waste stabilization ponds: Markov approach (Accepted for Publication), 1993.
202. Agunwamba, J.C. Waste stabilization pond effluent re-use for irrigation in the less developed countries. J. Agric. Eng. And Tech. 1. 1-12, 1993.
203. Agunwamba, J.C. (1993). Property, sustainable development and environmental technology. Proc. Nigerian Society of Engineers Annual Conference, 90-109, 1993.
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209. Agunwamba, J.C. Dispersion number determination in waste stabilization ponds Water, Air, and Soil Pollution 59, 241-248, 1991.
210. Agunwamba, J.C. Simplified optimal design of the waste stabilization pond Water, Air and Soil Pollution 59, 299-310, 1991.
211. Agunwamba, J.C. Probabilistic variations in ponds Pakistan Academy of Sci. 27(4), 349-359, 1991.
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216. Agunwamba, J.C. and Ademiluyi, J.O. Coagulant mixes using linear programming *Nig. Journal of Engineering* 5(2), 98-102, 1988.
217. Agunwamba, J.C. A Dimensionless Number as an Index of Sludge Dewaterability *J. Engg. for Dev.*, Vol. 1, 1 – 9, 1987.

### **Other publications**

1. Agunwamba, J.C. Herbert Macaulay: Several Faces of the Man, Bezalel Books, Abuja, 2012.
2. Agunwamba, J.C. Life and Times of Engr. Isaac Iweka: The First Igbo Engineer, De-Adroit Innovation, Enugu, 2012.
3. Agunwamba, J.C. Destiny on Trial. Bezalel Books, Abuja, 2011.
4. Agunwamba, J.C. The Poacher's Daughter, Macmillan Nig. Ltd., Ibadan, 2010. ANA/Chevron Prize for Prose on Environmental Issues, 2011.
5. Agunwamba J.C. Faces of Deceits. Bezalel Books, Enugu, 2010.
6. Agunwamba, J. C. How to Fulfill Your Academic Goals. De-Adroit Innovation, Enugu, 2007.
7. Agunwamba, J.C. Anatomy of Pride. Scripture Union (Nig.), 2003.
8. Agunwamba, J.C. How to prosper without Regrets. Scripture Union (Nig.) Press and Books Ltd., Ibadan, 2000.
9. Agunwamba, J.C. I Married an Osu. Joen Publishers, Enugu, 1997.
10. Agunwamba, J.C. Give them a chance (fiction). Macmillan Nig. Ltd, Ibadan, 1993.

### **Technical reports**

1. Agunwamba, J.C., Egbuniwe, N., Ezeokonkwo, and Onyishi, J.S. (2003). Rehabilitation and Expansion of the Wastewater Treatment System at the University of Nigeria, Nsukka. Vice Chancellor's Special Assignment.
2. Agunwamba, J.C., Nwoji, C.U., Nzeh, R.E., Onyishi, J.S., Uzuegbunam, F.O., Osadebe, T.N. and Obileke, C.C. (2003). Cost Proposal on the Proposed Remodelling

of the Vice – Chancellor’s Office / Administration. UNN Governing Council Assignment.

3. Agunwamba, J.C., Nwoji, C.U., Nzeh, R.E., Onyishi, J.S., Uzuegbunam, F.O., Osadebe, T.N. and Obileke, C.C. (2003). Proposed Conversion of Zik’s Flat Stores into a Hostel. UNN Governing Council Assignment.
4. Agunwamba, J.C., Nwoji, C.U., Nzeh, R.E., Onyishi, J.S., Uzuegbunam, F.O., Osadebe, T.N. and Obileke, C.C. (2003). Rehabilitation of Zik’s Flat Hostels. UNN Governing Council Assignment.
5. Thirteen Other Reports relating to EIA, Design of Hydraulic Structures, Sewage and Industrial Wastewater Treatment Plants.

## HONOURS/AWARDS/DISTINCTIONS

### Assessment of candidates for professorial position

The candidate has been invited to assess several persons for professorial positions in many Nigerian universities.

### Dedication

1. Most Punctual Staff Award in the whole Faculty of Engineering, University of Nigeria, Nsukka, 2012.
2. Best Dressed Academic Staff Award, Department of Civil Engineering, University of Nigeria, Nsukka, 2012.
3. Prize in 2011 in appreciation of his contributions to development of his Faculty and as the most accessible Dean the Faculty ever had.
4. Commendation for Dedicated Service, School of Engineering and Engineering Technology, Federal University of Technology, Owerri (During Sabbatical Leave), 2005 – 2006.
5. 48<sup>th</sup> Founders’ Day Vice Chancellor’s Academic Award for excellence performances in the discharge of academic responsibilities in the past four years (2004-2008).
6. Certificate of Dedicated Service, Faculty of Engineering, University of Nigeria, Nsukka, 2004. By the Dean Faculty of Engineering, UNN.
7. Best and Most Dedicated Civil Engineering 3<sup>rd</sup> Year Lecturer, 2004.

## Publications Award, Patents and Scholarship

### Patents

1. PATENTS (From the candidate’s Ph.D student work in Mechanical Engineering).
  - a).Design and Development of Palm Frond, Broom Peeling Machine. NG/P/2014/177.
  - b).Design and Development of a Palm Nut Pulp Separator. NG/P/2014/176.
2. 2011. Chevron Award for the Novel The Poacher’s Daughter. Published by Macmillan Nig. Ltd., 2011.
3. Merit Award for the paper. “Prediction of bacterial population in waste stabilization ponds using multiple depth layer model.” Institution of Engineers, India (1996 - 1997).
4. Chief Sab Ejimofor Scholarship for M.Eng./Ph.D - Chief Sab Ejimofor/University of Nigeria, Nsukka (1986 – 1990).

5. Proficiency Certificate in Mathematics, Olokoro High School, Umuahia (1976 – 1977).

### **Others**

1. South Pillar of Nation Building Award, 2010.
2. Academic Noble International Award, Institute of Industrial Administration, 2008.
3. Honorary Member, Research Board of Advisors, The American Biographical Institute, 2005-2012.
4. Excellence in Service to Education and Humanity award – IEEE – UNNSB.
5. African Achiever Leadership award in recognition of his excellent performance in Africa by Global News, Ghana.
6. Other nineteen awards.

### **Contribution To Knowledge/Academic Recognition**

1. He has contributed significantly to knowledge in the area of dispersion of waste water in rivers and innovations in wastewater treatment, especially through accelerated treatment efficiency by integration of solar radiation and hydraulic jump. He is a member of Research Gate which evaluates the impact, importance and visibility of the publications of scholars online. By November 2015, his publications have been read 1534 times by scholars in Nigeria, USA, India, Japan, United Kingdom and so on and there had been 144 citations of his work.
2. He is a member of Ph.D Review Panel in the Department of Civil Engineering, Institute of Road and Transport Technology, Erode -638 316, South India.

### **Editorship**

1. Editor – in – Chief, Nigerian Journal of Technology, 2006 –
2. Editor, Nigerian Journal of Technology, 1997 – 2006
3. Member, Editorial Board of Journal of Civil and Environmental Systems Engineering, University of Benin, Benin, 2014 –
4. Member, Editor Board of Journal of Water Resources, 2009 –
5. Reviewer for the Nigerian Journal of Technology, Ife Journal of Technology, The Transactions of Nigerian Society of Engineers, Water, Air and Soil Pollution (USA), Water Research (U.K), Environmental Management (USA).
6. Technical Secretary & Editor, First Regional Symposium on Hydrology of Tropical Watersheds, March 16-19, 1997, University of Nigeria, Nsukka.
7. Review Editor, Journal of Engineering Research.

### **Past Ph.D students who are Professors/Associate Professors**

1. J.A. Tanko, Department of Civil Engineering, Federal University of Technology, Yola. Oct. 1, 2012.
2. T.O. Ogwueleka, Department of Civil Engineering, Univeristy of Abuja, Abuja. Prof. Oct 1, 2012.
3. M.A. Bichi, Department of Civil Engineering, Bayero University, Kano. Prof. Oct. 2013.
4. B.U. Okoro, department of Civil Engineering, Federal Univeristy of technology, Owerri. Oct. 1, 2013.

5. B.U. Dike, Department of Civil Engineering, Federal University of Technology, Owerri. Associate Prof. Oct. 1, 2013.
6. B.N. Nwakwojike, Department of Mechanical Engineering, Michael Okpara University, Umudike. Associate Prof. Oct. 1, 2015.

**COMPLETED POSTGRADUATE PROJECTS AND STUDENTS SOLELY OR CO-SUPERVISED:**

The summary of the number of candidates and the institutions involved are first presented followed by the details of the names of candidates, their project topics/theses and years of graduation.

**Students successfully supervised or co-supervised in various Departments and institutions**

S/N	INSTITUTION	DEPARTMENT	PROGRAMME	NO. OF MASTER/STUDENTS SUCCESSFULLY SUPERVISED/CO-SUPERVISED	PERIOD
1	University of Nigeria, Nsukka	Civil Engineering	Ph.D	30	2004 -2016
		Civil Engineering	Masters	72	1996 – 2016
		Mechanical Engineering	Ph.D	5	1996 – 2016
		Mechanical Engineering	Masters	7	2002 - 2006
		Agric And Bio Resources	Ph.D	1	2010
2	Federal University of Technology Owerri	Civil Engineering	Ph.D	10	2006 – 2016
		Civil Engineering	Masters	17	2005 – 2013
3	Bayero University, Kano	Civil Engineering	Ph.D	2	2012
4	Federal University Of Agriculture, Makurdi	Civil Engineering	Masters	2	2015-2016
5	Institution of Petroleum Studies, University of Port Harcourt	Centre for Occupational Health and Environment Safety Engineering	Masters	7	2012 – 2015
6	University of Nigeria, Enugu Campus	Centre For Environmental Management	Ph.D	1	2010 - 2012
			Masters	2	2010 - 2015
7	University of Uyo, Uyo	Civil Engineering	Masters	1	2013 - 2016
			<b>Total</b>	<b>157</b>	

**DETAILS**

**a) UNIVERSITY OF NIGERIA, NSUKKA**

**(i) WATER RESOURCES AND ENVIRONMENTAL ENGINEERING**



## **DOCTOR OF PHILOSOPHY**

1. Ugwu, F.I. (PG/Ph.D/09/51899) Modeling the Biodegradability of Sewage in Ordinary Pit Latrines, 2015.
2. Udeh, N.U. (PG/Ph.D./10/52614) Adsorption Isotherms and kinetic Studies for the Removal of Lead and Cadmium from Aqueous Solution Using Bamboo Carbon, 2016.
3. Gabriel G. (PG/Ph.D/09/50627) Modeling of Noise Variations from Multiple Noise Sources in an Oil Process Plant. 2016.
4. Eze, G.N. (PG/Ph.D/04/35995). Modeling Crude Oil Spread in Aquatic Environment, 2015.
5. Onosakponome, O.R. (PG/Ph.D/12/62858). Modeling WSP with Computational Fluid Dynamics, 2015.
6. Ogarekpe, N.M. (PG/Ph.D/11/59444). Integrated Solar and Hydraulic Pump enhanced Waste Stabilization Pond, 2015.
7. Okonkwo, U.N (PG/Ph.D/09/52509). Optimization of Bagasse Ash Content in Cement-Stabilized Lateritic Soil, 2015.
8. Nwidi, C.I. (PG/Ph.D/10/52519). Kinetics of Biosorption of Three Heavy Metals by Five Selected Microorganisms Species, 2015.
9. Eme, D.B. (PG/Ph.D/09/50843). Predicting Elastic Modulus of Lateritic Soils Stabilized With-Lime Used as Sub-Bases for Flexible Pavements by Method of Indirect Tensile Testing Techniques, 2015.
10. Nwaobakata, C. (PG/Ph.D/09/50846). Evaluation of Pavement Performance Using Local Materials as Fillers in Hot Mix Asphalt for Heavy Traffic, 2015.
11. Ekwulo, E.O. (PG/Ph.D/10/57787). Development of Layered Elastic Analysis Procedure for Prediction of Fatigue and Rutting Strains in Cement-Stabilized Lateritic Base of Low Volume Roads, 2014.
12. Obianyo, J.I. (PG/Ph.D/08/49084). Modeling of Seepage and Evaporation Losses in Sewage Sludge Drying Bed, 2014.
13. Okoloekwe, R.C. (PG/Ph.D/07/43906). Kinetic Models of Electrochemical Advanced Oxidation Process in Water Disinfection, 2014.
14. Ezeilo, Ebelechukwu F. (PG/Ph.D/08/49232). Optimizing the location of multiple waste discharge points in natural streams, 2014.
15. Igwe, E.A. (PG/Ph.D/10/57805). Predicting Stiffness and Pavement Response of Modified HMA Concrete Pavements for different traffic loads and frequencies, 2014.
16. Ajoku, T.O. (PG/Ph.D/09/5061). Optimized Energy Mix Subject to Environmental Impact Constraints, 2014.
17. Ugbebor, N.J. (PG/Ph.D/05/40443). Modeling the Variation of Water Quality of the Oshika Lake, 2012.
18. Nnaji, C.C. (PG/Ph.D/08/49126), Improving Septic Tank Performance by a new rational Design Approach, 2011.
19. Utse, J.T. (PG/Ph.D/08/48316). Modeling the Optimum Conditions for Solar Enhanced WSP, 2011.
20. Dike, C.C. (PG/Ph.D/06/41606). Modeling of Sediment Concentration Distribution and Siltation Prediction in the Niger Delta Canals, Nigeria, 2010.
21. Aho, I.M. (PG/Ph.D/06/41141). Kinetics of Moringa Oleifera Seed Extract and Powder in Water Coagulation and Flocculation process, 2010.

22. Olaniyan, I. O. (PG/Ph.D/07/42569). Ground Water Flow Modelling Using Finite Element Method, 2010.
23. Alayande, A.W. (PG/Ph.D/07/42567) Modelling the Impacts of Urbanization on the River Flooding, 2010.
24. Adibe, T.N. (PG/ Ph.D/07/43632). Modelling Water Resources Allocation in Anambra – Imo River Basin, 2010.
25. Uzoije, A.P. (PG/Ph.D/04/35949). The Kinetics of Dispersion of Crude Oil Through Porous Media, 2008.
26. Dike, B.U. (Ph.D/02/33166). Modelling of One-Dimensional Contaminant Transport in Single and Multilayer Soils, 2007.
27. Tanko, J.A. (PG/Ph.D/00/32171). Design Relations and Cost Optimization of Earth Dams, 2006.
28. Ogwueleka, T.C. (PG/Ph.D/00/32191) Scheduling of Solid Waste Collection Routes, 2005.
29. Ukpong, E.C. (PG/Ph.D/02/33416) Modelling Stratification and Mixing in Waste Stabilization Pond, 2004.
30. Obasi, N.C. (PG/Ph.D/97/24490). The Influence of Off-take Angles and Flow Characteristics on Suspended Sediment Distribution in Bifurcation Channels, 2004.

### **MASTER DEGREE**

31. Oge, S.O. (PG/M.Eng/11/59396). Effects of Disinfectants on Anaerobic Degradation of Sewage using Dettol and Izal as Case Study, 2014.
32. Okah, M.C. (Pg/M.Eng/11/59420) Effect of Addition of Carbide on Sewage Degradation, 2014.
33. Nwankwo, E.J. (Pg/M.Eng/12/63087) A Comparative Analysis between the Performance of Plane Reflector and Off-Axis Parabolic Reflector in Solar Enhanced Waste Stabilization Pond, 2014.
34. Nzeh, R.O. (PG/M.Eng/11/59372). Impact of Land Use on Urban Runoff, 2014.
35. Iwuagwu, A.C. (Pg/M.Eng/09/51280). Characterization of Dredged Soil from Nworie River for Construction Use, 2014.
36. Okoro, C. (Pg/M.Eng/12/63744). Recycling of Plastic Materials for the Production of Ceiling Tiles using Sawdust Reinforcement, 2014.
37. Ikwa, G. B. (Pg/M.Eng/12/62102). Residual Chlorine Decay in Water Distribution Network, 2014.
38. Asogwa, E.O. (Pg/M.Eng/11/59427). Comparative Analysis of Solid Waste Collection in Enugu Urban, 2014.
39. Tenebe, I.T. (PG/M.Eng/11/59376). Effects of Disinfectants on Sewage Degradation using Izal and Dettol, 2013.

40. Ugwuanyi, S.E. (PG/M.Eng/11/59386). Integrated Solar and Hydraulic Jump enhanced waste stabilization pond, 2013.
41. Ikeagwuani, C.C. (PG/M.Eng/10/57282). Stabilization of black cotton soil with sawdust ash and lime for subgrade July, 2013.
42. PraiseGod, E. C. (PG/M.ENG/11/59374). Comparative Analysis of Hospital Waste Management in Calabar Metropolis, 2013.
43. Tenebe, Theophilus (PG/M.Eng/11/59376). Effects of Disinfectants on Aerobic Degradation of Sewage using Dettol and Izal as Case Study, 2013.
44. Ogugua, C. (PG/M.Eng/11/59462) Effect of Baffles on Oil Water Separator Varying the Location, 2013.
45. Ukomadu, K. (PG/M.Eng/11/59404). Effect of Baffles on Oil Water Separator, 2013.
46. Ugwuanyi, Samuel (PG/M.Eng/11/59386). Effect of Solar Reflector and Hydraulic Jump on WSP, 2013.
47. Mwonwuba, Nwanneka (PG/M.Eng/11/59377). Comparative Analysis of Bioremediation of Heavy Metals using Plants and Microorganisms, 2013.
48. Nwakunor, V. E. Recycling of Battery Waste, 2012.
49. Adagba, Terlumum. Comparative Analysis of the Rebound Hammer and Ultrasonic Pulse Velocity in Testing Concrete, 2012.
50. Apebo, N. S. Comparative Analysis of the Compressive Strength of Concrete with Gravel and Crushed Overburnt Bricks as Coarse Aggregate, 2012.
51. Onyekweredike, K.O. (PG/M.Eng/11/59381). Comparative Analysis of Bioremediation of Heavy Metals using Plants and Microorganisms, 2012.
52. Ugwu, E.I. (PG/M.Eng/09/50740) Effect of addition of sodium Hydroxide on cassava wastewater characteristics and degradation, 2011.
53. Onyenjoro, C.H. (PG/M.Eng/09/50935) Modelling the rate of degradation in crude oil polluted sites, 2011.
54. Adaba, C.S. (PG/M.Eng/09/50686) Effects of particle size on biomediation of crude oil polluted sandy soils, 2011.
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**(ii) ENGINEERING MANAGEMENT (Department of Mechanical Engineering, UNN)**

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104. Ozor, P.A. (Pg/Ph.D/09/51978). Application of Artificial Neural Network to Multivariate Industrial Maintenance Systems, 2015.
105. Ekeocha, Rowland T.O. Dynamic Modeling of Machinery Replacement Problems, 2010.

106. Nwankwojike, B.N. (Pg/Ph.D/06/42198). Performance Optimization of a Palm Nut-Pulp Separator Using Response Surface Analysis, 2010.
107. Aniekan Offiong (Pg/Ph.D/93/14357). Development of a Coordinated Maintenance and Replacement Scheduling Programme for Industries, 1996.

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110. Asomugha, S.A. (M.Eng/99/0230). Analysis of Equipment Replacement in the Construction Industry, 2002.
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112. Okon, U.A. (M.Eng/99/0018). Hydrocarbon Flowline Risk Analysis and Integrity Management.
113. Mbanugo, C.E. (M. Eng/99/0019). Decision and Risk Analysis in the Petroleum Industry.
114. Okorodudu, A. (M. Eng/00/0001). Evaluation of Natural Gas Development Option: Benefit – Cost analysis.
115. Audu, J.E. (M. Eng/99/0160). Optimization of Petroleum Products Distribution in Nigeria.

#### **(III) SOIL AND WATER (DEPARTMENT OF AGRICULTURAL ENGINEERING, UNN)**

116. Ugwuishiwu, B.O. (PG/Ph.D/00/28029). Modelling of biogas production with an anaerobic digester, 2010.

#### **OTHERS**

117. Mofor, M.A. (M.Sc/95/21331). Modeling Decision Problem of Yam Buyers in the Nsukka Yam Market. ( unofficial ) Department of Statistics, U.N.N, 1997.

#### **(IV) CENTRE FOR ENVIRONMENTAL MANAGEMENT**

#### **DOCTOR OF PHILOSOPHY**

118. Eneh, O.C. (PG/Ph.D/09/53650). Environmental Health of Crude Lead-and Beryllium oxide – extracts from E-wastes, 2012.

**MASTER DEGREE**

119. Mgbeke, K.I. (PG/M.Sc/08/53513). Solid waste Management through sorting in Enugu Urban, 2013.
120. Menkiti, N.U. (Pg/M.Sc/11/60862). Environmental Impact of Noise Pollution from Household Electricity Generating Sets in Enugu Urban, 2013.

**b) FEDERAL UNIVERSITY OF TECHNOLOGY OWERRI (DEPARTMENT OF CIVIL ENGINEERING)****DOCTOR OF PHILOSOPHY**

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122. Bassey, O.B. (20004149398) Prediction of Coles' and Dip Parameters for the Determination of Channel Vertical Velocity Profiles, 2015
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- C) BAYERO UNIVERSITY KANO (DEPARTMENT OF CIVIL ENGINEERING)**

**DOCTOR OF PHILOSOPHY**

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149. Adedekun, T.A. (SPS/TEC/07/02908). Modeling the effects of industrial effluents on surface water quality of Challawa River, 2012.

**D) UNIVERSITY OF PORT HARCOURT  
CENTRE FOR OCCUPATIONAL HEALTH, SAFETY AND  
ENVIRONMENT, INSTITUTE OF PETROLEUM STUDIES (IPS), UNIPOINT**

150. Oghenevwerote, R.M.G. (COHSE/M.SC/ETM/2013/041). Effect of Heavy Metal Contamination on Water Quality of Ekpan River, Delta State, 2014.
151. Anyanwu, K. N. (COHSE/M.SC/ETM/2012/027). Comparative Analysis of different models for traffic noise prediction, 2013.
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**E) UNIVERSITY OF UYO, UYO  
DEPARTMENT OF CIVIL ENGINEERING**

**MASTERS DEGREE**

159. Abaraogu, Udechukwu John (PG/EG/CV009) Least Cost Optimization of Offshore Oil Spill Clean-up Technologies.

**F) FEDERAL UNIVERSITY OF AGRICULTURE MAKURDI, DEPARTMENT OF CIVIL ENGINEERING**

160. Ekanem, E.J. (M.Eng/11/4520). One-dimensional numerical modelling of Wupa River Water Quality in Abuja, 2015.
161. Iorbo, A.D (M.Eng/3176/09) Impact of Some Geotechnical Properties on soil detachment by rain drop, Sept., 2016.

**Extra-Curricular Activities:** Writing novels, watching movies and studying nature.

**REFEREES:**

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