

CURRICULUM VITAE

A. PERSONAL DATA

1. **NAME:** IGBOKWE, Philomena Kanwulia
2. **MAIDEN NAME:** Enenmoh
3. **NATIONALITY:** Nigerian
4. **GENDER:** Female
5. **POSTAL ADDRESS:** Dept., of Chemical Engineering, Nnamdi Azikiwe University, P.M.B. 5025, Awka, Anambra State.
E-mail: philoigbokwe@yahoo.com and pk.igbokwe@unizik.edu.ng
6. **PRESENT STATUS:** Professor
7. **DEPARTMENT:** Chemical Engineering
8. **FACULTY:** Engineering

B. ACADEMIC AND PROFESSIONAL BACKGROUND

a) Educational Institutions Attended with Dates:

1. Federal University of Technology, Owerri, Nigeria, (1998 – 2004)
2. Higher Chemico – Technological Institute, (now University of Chemical Technology and Metallurgy), Sofia, Bulgaria (1979 – 1984)
3. Institute for Foreign Students, Sofia, Bulgaria, (1978 – 1979)
4. Federal Government Girls’ College, Benin – City (1977 – 1978)
5. St. Maria Goretti Girls’ School, Benin – City (1973 – 1977)
6. St. Bernadette Girls’ Primary School, Boji- Boji, Agbor (1966 – 1972)

b) Academic Qualifications with Dates

1. Ph.D (Chemical Engineering) - 2005
2. M.Sc. (Chemical Engineering), Excellent – 1984
3. West African School Certificate (WASC), Grade one – 1977
4. First School Leaving Certificate (FSLC), Distinction – 1972

c) Distinction and Awards with Dates

1. Federal Government of Nigeria Scholarship tenable in Bulgaria, 1979 - 1984
2. “THTM” ‘82’ Technical Session of Young Engineering, Science and Technology Workers, Plovdiv, Bulgaria, 1982 – First prize
- 3 “THTM” ‘84 Technical Session of Young Engineering, Science and Technology Workers, Plovdiv, Bulgaria, 1984– Second Prize
- 4 “DKMC” Gold Medal (Order of Georgi Dimitrov), Award for Academic Excellence, (Ph.D Candidate), Sofia, Bulgaria, 1984
5. Distinguished Academic Leadership Award of the Nigerian Institute of Industrial Administration, 2007
6. First Female Professor of Chemical Engineering in Nigeria, 2006.
7. Fellow, Nigerian Society of Chemical Engineers, 2012, FNSCHE

d) Employment / Relevant Experience with Dates

1. Chemical Complex “Pharmachim”, Sofia, Bulgaria (July – Oct. 1981) – Industrial Attache
2. Premier Breweries Nig. Ltd (August – Sept., 1982) – Industrial Attache
3. Chemical complex “Pharmachim”, Sofia, Bulgaria (July – October, 1983) – Industrial Attache
4. Department of Chemical Engineering, Kaduna Polytechnic, Kaduna, (1984 – 1985) – Lecturer, NYSC
5. Department of Chemical Engineering Institute for Management and Technology, IMT, Enugu, (1986 – 1987) – Part Time Lecturer
6. Anambra State University of Technology, ASUTECH, (1998 – 1989) – Asst. Lecturer
7. Anambra State University of Technology, ASUTECH, (1998 – 1991) – Lecturer II
8. Anambra State University of Technology, ASUTECH, (1991 – 1995) – Lecturer I
9. Enugu State University of Science and Technology, ESUT, (1992 – 1994) – Lecturer I
10. Nnamdi Azikiwe University, NAU, Awka, (1994) – Lecturer I
11. Department of Chemical Engineering Federal University of Technology, Owerri, (1998 – 2004) – Postgraduate Study
12. Nnamdi Azikiwe University, NAU, Awka, (1995 - 2006) – Senior Lecturer
13. Nnamdi Azikiwe University, NAU, Awka, (2006) – Professor

C. MEMBERSHIP OF PROFESSIONAL BODIES

1. Member, American Chemical Society, (ACS)
2. Member, Nigerian Society of Chemical Engineers, (MNSChE), MO369, 1990
3. Registered Engineer, Council for the Regulation of Engineering in Nigeria (COREN), R5724, 1992
4. Member, Nigerian Institute of Engineering Management (MNIEM), 2004
5. Fellow, Nigerian Institute of Industrial Administration (FIIA), 2007
6. Fellow, Nigerian Society of Chemical Engineers (FNSCHE) 2012

D. SERVICE TO THE UNIVERSITY COMMUNITY AND SOCIETY

1. Academic Adviser, 100 Level – Department of Chemical Engineering, ASUTECH, Enugu, 1988/89
2. Academic Adviser, 200 Level – Department of Chemical Engineering, ASUTECH, Enugu, 1989/90
3. Academic Adviser, 200 Level – Department of Chemical Engineering, ASUTECH, Enugu, 1990/91.
4. Academic Adviser, 200 Level – Department of Chemical Engineering, ESUT, Enugu, 1991/92, 1992/93.
5. Faculty Representative, Senate Research Planning and Grants Committee, 1990/91, ASUTECH, Enugu.
6. Faculty Representative, Ceremonials Committee, 1991/92, ESUT, Enugu
7. Staff Adviser, Christ Ambassadors Students’ Outreach (CASOR), ESUT, 1991 – 1994
8. Staff Adviser, Science Technology Christian Students’ Association, NAU, Awka, 1998
9. Staff Adviser, Ubulu – Uku Federated Students’ Union, NAU, Awka, 1998
10. Staff Adviser, National Association of Delta State Students’ NADESSU, NAU, Awka, 1998 – 2002.

11. Acting Head of Department, Science Technology, NAU, Awka, 1996/97 – 1997/98 Academic Session
12. Member, Committee on Increase in University Revenue, NAU, Awka, 1998
13. Member, Monitoring Committee on the sale of Handouts in the University, (FET), NAU, Awka, 1998
14. Member, Office Space Committee, NAU, Awka, 1998
15. Member, Ethics Committee, NAU, Awka, 1999.
16. Member, U – FEAT, Faculty of Engineering and Technology (NAU, Awka) Accreditation Committee, for accreditation by the Council for the Regulation of Engineering in Nigeria (COREN), 1998
17. Facilitator for the Registration of Faculty of Engineering and Technology Engineers, in the Nigerian Society of Engineers (NSE) and Council for the Regulation of Engineering in Nigeria (COREN), NAU, Awka, 1998
18. Consulting Editor, Environmental Review – A multi – disciplinary Journal for the Environmental Sciences, ISSN 118 – 7190, 1997 – 2003
19. Member, Council for the Regulation of Engineering in Nigeria (COREN) Representative, Curriculum Development Team, Professional Diploma in Chemical Engineering for the National Board for Technical Education (NBTE), Sept. 1998.
20. Member, Council for the Regulation of Engineering in Nigeria (COREN) Accreditation Team to Lagos State University, Faculty of Engineering, Epe, 2000
21. Member, Council for the Regulation of Engineering in Nigeria (COREN) Accreditation Team to University of Uyo, Faculty of Engineering, Uyo, October, 2003.
22. Co-ordinator, Chemical Engineering Laboratories, Nnamdi Azikiwe University, Awka, 2004 – 2008.
23. Examiner, Graduateship Examinations 2004, Nigerian Society of Engineers, 2004
24. Examiner, Graduateship Examinations 2005, Nigerian Society of Engineers, 2005
25. Acting Head of Department chemical Engineering, NAU, 2004/2005 Academic Session
26. Member, Faculty of Engineering and Technology Postgraduate Committee, NAU, 2004 to date
27. Editor, Journal of Engineering and Applied Science, a Multi – disciplinary Journal of the Faculty of Engineering and Technology, NAU, ISSN 1119 – 8109, 2005 – to date
28. Chairman / Member, Faculty of Engineering and Technology Exhibition Committee, NAU, 2005
29. Chairman, Faculty of Engineering and Technology Publicity and Hospitality Committee, 2005.
30. Member, Committee on Re-organisation and Restructuring of Faculty of Engineering and Technology, NAU. Awka, 2005.
31. Chairman, Implementation Committee on the Re-organisation and Restructuring of Faculty of Engineering and Technology, NAU. Awka, 2005.
32. Acting Head of Department of Chemical Engineering, Nnamdi Azikiwe University, Awka, 2004/05; 2005/06.
33. Approved Postgraduate Supervisor (M. Eng. and Ph. D), School of Postgraduate studies, NAU, Awka, 2004 – date
34. Chairperson, Women’s Ministry, Chapel of Glory, Protestant Chaplaincy, Nnamdi Azikiwe University, Awka, 2004 – 2007
35. Approved Postgraduate Supervisor, Department of Chemical Engineering, Nnamdi Azikiwe University, 2005

36. Head of department of Chemical Engineering, Nnamdi Azikiwe University, Awka, 2006/07
37. Facilitator, COREN registration of Engineers in Faculty of Engineering, Nnamdi Azikiwe University, Awka, 2006
38. Member, Faculty of Engineering Accreditation committee, 2004 – 2006
39. Member, Faculty Management Board, Faculty of Engineering, Nnamdi Azikiwe University, Awka, 2004 – 2007
40. Member, Faculty of Engineering Development Committee, 2007 – date
41. Sub – Dean, School of Postgraduate Studies, Nnamdi Azikiwe University, 2008- 2009.
42. Visiting Professor (Sabbatical leave) University of Uyo, Uyo, 2009/2010.
43. Dean, Faculty of Engineering, Nnamdi Azikiwe University, Awka, 2012 - date

E. ACADEMIC LEADERSHIP

- a) Approved Postgraduate Supervisor, Department of Chemical Engineering, NAU, Awka.
 - i) Postgraduate Teaching and Supervision
 - ii) Postgraduate Diploma
 - iii) Master's Programme
 - iv) Doctoral Programme

M.Eng. Projects Supervised

- a) b) Design and Fabrication of a Reactor for Fast Pyrolysis for Production of Biofuel from Cellulosic Feedstock - Obasi Okechuckwu, Reg. No. – 2005216001F
- b) The Use of Castor Oil as a Reactive Monomer for the Synthesis of Flexible Polyurethane Foam- Ogunfeyitimi Olaoluwa, Reg. No. – 2005216002P
- c) Adsorptive Dehydration of Ethanol –Water Mixtures using Starchy Adsorbents – Okewale Akindele Oyetunde, Reg. No. – 2007216002F
- d) Osmotic Membrane Distillation for Deacidification of Palm Wine and Beer – Ejikeme Ebere Monica, Reg. No. – 2007216008F
- e) Design and Development of a Laboratory Process Control Simulation Module for a Batch Reactor – Chukwu Monday M, Reg. No. – 2008216001F
- f) Investigation of Ethyl Esters of Non – Edible Oils (Castor Seed Oil and Rubber Seed Oil) as Corrosion Inhibitors – Undiandeye Jerome Anguel, Reg. No. – 2008216002F
- g) Design and Development of a Laboratory Process Control Simulation Module for a CSTR Reactor – Ojiabo Kenekukwu Theresa., Reg. No. – 2008216007F

Ph.D. Dissertation Supervised

- h) Adsorption and Kinetic Modelling of Heavy Metals Uptake from Wastewater Effluents – Nwabanne, J.T., Reg. No. – 2006217001P
- i) Modeling and Optimization of the Liquid – Phase Esterification of Acetic Acid using Heterogeneous Modified Clay Catalysis – Olebunne, F.L., Reg. No. – 2006217003P

K) Examinership

- i) Graduateship Examinations, Nigerian Society of Engineers 2004 – 2005
- ii) External Examiner, Ph.D and M.Eng., Enugu State University of Science and Technology, Enugu, 2009 – 2012.

iii) External Examiner, M.Sc. University of Nigeria, Nsukka, Department of Industrial Chemistry, 2009.

L) Editorship of Journals

- a. Editor, Journal of Engineering and Applied Science, A Multi – disciplinary Journal of the Faculty of Engineering, NAU, 2005 to date
- b. Consulting Editor, Environmental Review – A multi – disciplinary Journal for the Environmental Sciences, ISSN 118 – 7190, 1997 – 2003.

M) Headship of Department

- a. Acting Head of Department, Science Technology, NAU, Awka, 1996/97 – 1997/98 Academic session.
- b. Acting Head of Department of Chemical Engineering, Nnamdi Azikiwe University, Awka, 2004/05; 2005/06.
- c. Head of Department of Chemical Engineering, Nnamdi Azikiwe University, Awka, 2006/2007, 2007/2008 and 2011/2012.
- d. Sub – Dean, School of Postgraduate Studies, Nnamdi Azikiwe University, Awka, 2008 – 2009.
- e. Dean, Faculty of Engineering, Nnamdi Azikiwe University, Awka, 2012 - date

N. CREATIVE OUTPUT (RESEARCH AND PUBLICATIONS)

a) Books and Monographs

Book and Chapters in Book

1. Mbah, G.O., Igbokwe, P.K., Fundamentals of Chemical Reaction Engineering, Vol., 1; ISBN 978 – 30920-3-0, Enugu, 1998.
2. **Igbokwe, P.K.**, Oguejiefor, G.C., Uzuegbunam, E.N., (Eds.), Chemical Engineering Laboratory Manual for Laboratory Practicals, Department of Chemical Engineering, Nnamdi Azikiwe University, Awka, 2005.
3. **Igbokwe, P.K.**, “Research Methodology” in “Research Methodology, Funding and Management, School of Postgraduate Studies” edited by Ezenwa M. and Nkamnebe A., School of Postgraduate Studies, Nnamdi Azikiwe University, Awka, pp. 1 – 20, 2009.
4. Nwabanne J.T. and **Igbokwe P. K.**, “Kinetics and Thermodynamic Study of Lead(II) Adsorption from Waste water Effluent onto Nipa Palm Nut” in Water: Ecological Disasters and Sustainable Development, LAP Lambert Academic Publishing, Germany, 108 – 126, ISBN: 978-3-8465-0245-7, 2011.

b) Journal Articles / Publications

1. Ilcheva I., Polyanova M., and **Enenmoh P. K.**, Ion-selective determination of Chloride Ions in Technical Na_2SiF_6 , “THTM” ’82 in Proceedings of the 13th Technical session and Symposium of Young Engineering, Science and Technology Workers, “THTM” ‘82’, pp. 32 – 37, Plovdiv, Bulgaria, 1982; (In Bulgaria).

2. Peev, G.A. and **Enemoh P.K.**; optimal Separation of Azeotropic Binary Mixtures by Differential Distillation, in the Proceedings of the 15th Technical Session and Symposium of Young Engineering, Science and Technology Workers, "THTM 84", pp. 286 – 290, Sofia, Bulgaria, 1984; (in Bulgarian)
3. Onukwuli, O.D., Ukwuoma, P.O., **Igbokwe P.K.**, and Aneke, L.E., Production of activated Clay for bleaching red Palm Oil, Journal of the Nigerian Society of Chemical Engineers (JNSChE), vol. 14, no.1&2, pp. 28 – 34, 1995.
4. **Igbokwe P.K.**, and Mbah, G.O., Toxicity Identification and Evaluation of Textile Wastewater Effluents, environmental Review, vol. 1, no.2, pp. 50 – 52, 1997.
5. **Igbokwe, P.K.**, and Oyoh, K.B., Production of Activated Carbon from Coconut Shells, Journal of Chemical Society of Nigeria, vol. 26, no.1, pp. 91 – 94, 2001.
6. Ogbuagu, J.O., and **Igbokwe, P.K.**, Chemical Residue in our Environment: Sources, Transport and Effects, Environmental Review, vol.4 , no. 1, pp. 543 – 553, 2002.
7. **Igbokwe, P.K.**, and Ogbuagu, J.O., Effects of Process parameters on the Yield of Alumina from Indigenous Kaolinitic Clay Deposit, Nigerian Journal of Engineering Research and development, vol. 2, no.2, pp.23 – 26, 2003.
8. Oguagu, J.O., and **Igbokwe, P.K.**, Recinodendron heudelotii, imperata cylindrical, Bambusa vulgaris, hildergardia bacteri and Momordica angustisa pela as Possible Raw Materials for the Paper and Board Industry, Journal of Science and Technology Research, vol.3, no. 1, pp.1 – 6, 2004.
9. **Igbokwe P.K.**, Effiong, E.E., Nwafor O.M.I. and Ngochindo, R.I., Factors Affecting the Transesterification of Palm Olein, Nigerian Journal of Engineering management, vol. 5, no.2, pp. 25 – 30, 2004.
10. **Igbokwe P.K.**, Ogbuagu, J.O. and Nwokolo, S.O., Catalytic Esterification of Stearic Acid using a Local Kaolinitic Clay Mineral, Nigerian Journal of Engineering Research and development, vol. 4, no. 1, pp. 22 – 27, 2004.
11. Okafor, V.N., Nwigbo, S.C., and **Igbokwe P.K.**, Biochemical Treatment of wastewater from a Nigerian Textile Industry, Journal of Engineering and Applied Science, vol. 2, no.2, pp. 108 -114, 2006.
12. Ogbuagu, J.O., and **Igbokwe, P.K.**, Production of Biogas from waste Biomass, International research Journal of Engineering, Science and Technology (IREJEST), vol. 4, no.1, pp. 33 – 40, 2007.
13. **Igbokwe, P.K.**, and Nwokolo, S.O., The effects of some additives on the Performance of acid activated clay, Journal of Science, Engineering and Technology, vol. 14, no.2, pp. 7513 – 7517, 2007.

14. Ogbuagu, J.O., Ezemelu, I. and **Igbokwe, P.K.**, Quality characteristics of plastics products from waste plastic materials, Nigerian Journal of Industrial and Systems Studies, vol. 6, no. 3, pp. 7 – 10, 2007.
15. Ogbuagu J.O., **Igbokwe, P.K.**, and Asuzu, A.C., Characterisation and utilization of Ukpor clay mineral (Kaolin) deposits, Ukpor, Anambra State, Nigeria, Nigerian Journal of Engineering Research and Development, vol. 6, no. 2, pp. 7 – 11, 2007.
16. Nwabanne, J.T., **Igbokwe, P.K.** and Onwuegbuta, G.C., An assessment of the environmental impact of the NNPC mega filling station project at Awka: The case of water quality; Journal of Applied Sciences, 10(4), pp. 7530 – 7538, 2007.
17. **Igbokwe, P.K.**, and Nwokolo, S.O., Factors affecting the yield of α – cellulose from a local grass species – Panicum maximum, Journal of Science, Engineering and Technology (JSET), vol. 15, no. 1, pp. 8074 – 8084, 2008.
18. **Igbokwe, P.K.**, Nnaji, C.A., and Okolomike, R.O., Effect of extraction process variables on triglyceride quality for production of bio-diesel for compression – Ignition Engines, Journal of Engineering, Science and Technology, vol. 15, no. 2, pp. 8191 – 8201, 2008.
19. **Igbokwe, P.K.**, Ugonabo, V.I., Iwegbu, N.A., Akachukwu, P.C., and Olisa, C.J., Kinetics of the catalytic esterification of propanol with ethanoic acid using catalysts obtained from local sources, Journal of Science, Engineering and Technology, (JSET), vol. 15, no. 2, pp. 8137 -8147, 2008.
20. **Igbokwe, P.K.**, Effiong, E.E., Mgbemena C., and Obike I.J., Kinetics of the transesterification of Nigeria Palm and Palm kernel Oils, Journal of Science, Engineering and technology, (JSET), vol. 15, no. 1, pp.7998 – 8003, 2008.
21. **Igbokwe P.K.**, Okolomike, R.O., and Nwokolo, S.O., Zeolite for drying of ethanol – water and methanol – water systems from a Nigerian clay resource, J.Univ. Chem. Technol. Met. (Sofia), vol. 43, no.1, pp.109 -112, 2008 (available on the internet at www.uctm.edu/JUCTM08-1 or www.uctm.edu/journal/2008-1/contents.htm and www.uctm.edu/journal/j2008-1/16Nigeria_109-112.pdf
22. **Igbokwe, P.K.**, Onukwuli, O.D., and Okolomike, R.O, Adsorption of Heavy metals from Aqueous Solutions using Adsorbents from Coconut Shells and Goat Hair, African Journal of Science (AJS), vol. 9, no.1, pp. 2021 – 2029.
23. **Igbokwe, P.K.**, Nwabanne, J.T., and Okafor, V.N., Kinetics of the Catalytic Esterification of stearic Acid with Glycerol using Clay Catalysts, Journal of Applied Science (JAS), vol. 11, no.2, pp.7847 – 7852, 2008.
24. **Igbokwe, P.K.**, Ugonabo, V.I., and Okolomike, R.O., Kinetics of the Dehydrogenation of Ethanol with catalyst from Local Clay Resources, Journal of Applied Sciences (JAS), vol. 11, no. 1, pp. 7580 – 7584, 2008.

25. **Igbokwe, P.K.**, Ugonabo, V.I., Oharandukun, E. and Ochili, A., Characterisation and Use of Catalysts Produced from Local Clay Resources, *Journal of Applied Science*, vol. 11, no. 2, pp. 7551 – 7560, 2008.
26. **Igbokwe, P.K.**, and Ugonabo, V.I., Toxicity Identification, Evaluation of Petrochemical Wastewater Effluents: A case Study of a Petrochemical Industry, *Journal of Applied Science*, vol.11, no. 2, pp. 7765 – 7773, 2008.
27. **Igbokwe, P.K.**, and Ukwuoma, F.O., Safety Evaluation of the Industrial Environment for the Improvement of Occupational Health, *Nigerian Journal of Engineering Management (NJEM)*, vol. 9, no. 1, 2008.
28. **Igbokwe, P.K.**, and Okolomike, R.O., Acid Activated Carbon from Waste Groundnut Shells: Effect of Process variables on Adsorption Characteristics, *World Journal of Biotechnology*, vol. 9, no. 1, pp. 1432 – 1437, 2008.
29. **Igbokwe, P.K.**, Nwabanne J. T., and Okolomike, R.O., Adsorption of Lead and Cadmium from waste water using Coconut shell Activated Carbon, *ANACHEM Journa*, vol.3, no. 1, pp237 – 244,2008
30. **Igbokwe, P.K.**, and Onukwuli, O.D., Production and Characterisation of Castor oil – Modified Alkyd Resin, *Journal of Engineering and Applied Sciences*, vol. 3, no. 2, pp. 161 – 165, 2008 (available on the internet at www.medwelljournals.comandwww.medwelljournals.com/fuutext/jeas/2008/171-175.pdf).
31. Menkiti, M.C., **Igbokwe, P.K.**, Ugodulunwa, F.X.O., and Onukwuli, O.D., Rapid Coagulation Kinetics of Coal Effluent with High Organic Content using blended and Unblended Chitin derived Coagulant, *Research Journal of Applied Sciences*, vol. 3, no. 4, pp. 317 – 323, 2008 (available on the internet at www.medwelljournals.com and www.medwelljournals.com/fulltext/rjas/2008/317 - 323.pdf).
32. **Igbokwe, P.K.**, Effiong, E.E., Opportunities for Development of Bio-diesel for Compression – Ignition Engines in Nigeria, *Nigerian Journal of Engineering Research and Development (NJERD)*, vol.7, no.1, 2008.
33. **Igbokwe, P.K.**, Ugonabo, V.I., Iwegbu, N.A., Akachukwu, P.C., and Olisa, C.J., Kinetics of the Catalytic Esterification of Propanol with Ethanoic Acid using Catalysts obtained from Nigerian Clays, *J.Univ. Chem. Technol.Met. (Sofia)*, vol. 43, no. 3, pp. 345 – 348 (available on the internet at www.uctm.edu/JUCTM08-3 or www.uctm.edu/journal/2008-3/contents.htm and www.uctm.edu/journal/j2008-1/16_Nigeria109-112.pdf).
34. Nwabanne, J.T., and **Igbokwe, P.K.**, Kinetics and Equilibrium Modeling of Nickel Adsorption by Cassava Peel, *Journal of Engineering and Applied Science*, 3(11): 829 – 834, 2008 (available on the internet at www.medwelljournals.com and www.medwelljournals.com/fuutext/jeas/2008/171-175.pdf).

35. Ugonabo V. I. and **Igbokwe P.K.**, Treatment of Wastewater from Vegetable Oil Industry using Modified Laterite Adsorbent, Journal of Engineering and Applied Science, Vol.4, nos 1 and 2, 46 – 51, 2008.
36. **Igbokwe, P.K.**, Olebunne, F.L., Opebiyi, S.O., and Uzundu, F.N., Effect of Silica gel Support on Clay Catalysed Vapour-phase Dehydrogenation of Ethanol, International Journal of Engineering Science, vol. 1, no. 2, 132 – 137, 2009.
37. **Igbokwe P. K.** and Olebunne, F. L., Empirical Modeling And Optimization Of Clay-Catalysed Esterification Using Response Surface Methodology, Journal of Engineering and Applied Science, Vol.6, Nos 1 and 2, 2010.
38. **Igbokwe P. K.** and Olebunne, F. L. and Okolomike R. O., Empirical Modeling of the Vapour-phase Dehydrogenation of Ethanol using heterogenous modified clay catalyst, Journal of Engineering and Applied Science, Vol.6, Nos 1 and 2, 8-10, 2010.
39. Olebunne, F. L; **Igbokwe, P. K.**, Onyelucheya O. E; Osoka, E. C; Ekeke, I. C, Mechanistic Modeling of Clay-Catalysed Liquid-Phase Esterification of Acetic Acid, Journal of Emerging Trends in Engineering and Applied Sciences (JETEAS) 2 (4): 631-635, 2011, www.jeteas.scholarlinkresearch.org
40. Nwabanne, J.T., and **Igbokwe, P.K.**, Preparation of Activated Carbon from Nipa Palm Nut: Influence of Preparation Conditions, Research journal of Chemical Sciences (available on the internet at www.isca.in), vol. 1(6), pp. 53 – 58, 2011.
41. Okewale, A.O., Etuk, B.R., and **Igbokwe, P.K.**, Comparative Studies of Some Starchy adsorbents for the Uptake of Water from Ethanol – water mixtures, International Journal of Engineering and Technology, IJET-IJENS (available on the internet at www.ijens.org), vol.11, no.5, pp. 21 – 31, 2011.
42. **Igbokwe, P.K.**, Olebunne, F.L., and Nwakaudu, M.S., Effect of Activation Parameters on Conversion in Clay – Catalysed Esterification of Acetic Acid, International Journal of Basic and Applied Sciences, IJBAS-IJENS (available on the internet at www.ijens.org), vol.11, no.5, pp. 1 – 8, 2011.
43. Udiandeye, J.A., Okewale, A.O., Etuk, B.R., and **Igbokwe, P.K.**, Investigation of The Use Of Ethyl Esters Of Castor Seed Oil And Rubber Seed Oil As Corrosion Inhibitors, International Journal of Basic and Applied Sciences, IJBAS-IJENS (available on the internet at www.ijens.org), vol.11, no.6, pp.48 - 54,2011
44. Okewale, A.O., Etuk, B.R., and **Igbokwe, P.K.**, Adsorption And Kinetic Modelling Of The Uptake Of Water From Ethanol – Water Systems Using Starchy Adsorbents, International Journal of Engineering & Technology, IJBAS-IJENS (available on the internet at www.ijens.org), vol.11, no. 6, pp. 81 - 91 2011

45. **P. K. Igbokwe**, F. L. Olebunne, On The Catalytic Esterification Of Acetic Acid With Ethanol Using Nigerian Montmorillonite Clay: Effect Of Reaction Variables On Catalyst Efficiency, Journal of the University of Chemical Technology and Metallurgy, 46, 4, 389 – 394, 2011, (available on the internet at www.uctm.edu/JUCTM11-4 or www.uctm.edu/journal/2011-4/contents.htm).
46. Igbokwe P.K.; Olebunne, F. L; Opebiyi, S.O.; Okolomike, R.O. ,Vapour-Phase Dehydrogenation Of Ethanol Using Thermally Activated Kaolinite Catalyst, International Review of Chemical Engineering-Rapid Communications (IRECHE), <http://www.praiseworthyprize.com/ireche.htm> , in press, 2011
47. J. T. Nwabanne and **P. K. Igbokwe**, Kinetic modeling of heavy metals adsorption on fixed bed column, International Journal of Environmental Research, IJER,6(4),945-952, 2012
48. Joseph. T. Nwabanne and **Philomena K. Igbokwe**, Copper(II) Uptake by Adsorption using Palmyra Palm Nut, Advances in Applied Science Research, 2(6):166-175, 2011 [available@www.pellagiaresearchlibrary.com](http://www.pellagiaresearchlibrary.com)
49. J. T. Nwabanne and **P. K. Igbokwe**, Preparation of Activated Carbon from Nipa Palm Nut: Influence of Preparation Conditions; Research Journal of Chemical Sciences, 1(6), 53-58, 2011.
50. Joseph. T. Nwabanne and **Philomena K. Igbokwe** , Thermodynamic and Kinetic Behaviors of Lead(II) Adsorption on Activated Carbon Derived from Palmyra Palm Nut, International Journal of Applied Science and Technology, vol.2 No. 3, 245 – 254, www.ijastnet.com, 2012.
51. Joseph. T. Nwabanne and **Philomena K. Igbokwe**, Kinetics of Equilibrium Study of Lead [II] Adsorption from Aqueous Solution Onto Oil Palm Shell, IREJEST, 9(2), 17-26, 2012
52. Joseph. T. Nwabanne and **Philomena K. Igbokwe**, Breakthrough Curve Studies for the removal of Heavy metals in a Fixed Bed Column, Canadian Journal of Pure and Applied Sciences,6(5), 2009-2016, 2012
53. Joseph. T. Nwabanne and **Philomena K. Igbokwe**, Statistical Optimization Of Production Of Activated Carbon Derived From Oil Palm Empty Fruit Bunch, (in press) International Journal of Current Research,2012
54. Nwabanne and **Philomena K. Igbokwe** , Adsorption Performance of Packed Bed Column for the removal of Lead(II) using Oil Palm Fibre, International Journal of Applied Science and Technology, vol.2 No. 5, 106 – 115, www.ijastnet.com 2012.

55. Joseph. T. Nwabanne and **Philomena K. Igbokwe**, Mechanism of Copper(II) Removal from Aqueous Solution using Activated Carbon prepared from different agricultural wastes, (in press), International Journal of Multidisciplinary Sciences and Engineering, Volume 3, No. 7,46-52, available @www.ijmse.org ,2012
56. Joseph. T. Nwabanne and **Philomena K. Igbokwe**, Comparative Study of Lead(II) Removal from Aqueous Solution using different Adsorbents, International Journal of Engineering Research and Applications (IJERA), 2(4), 1830-1838, 2012
57. Ejikeme Ebere M., Prof. Igbokwe P.K., and Ejikeme P.C.N, Dealcoholisation of Palm Wine using Osmotic Membrane Distillation, International Journal of Multidisciplinary Sciences and Engineering,(IJMSE), Vol. 3, No. 6,26- 32, www.ijmse.org , 2012
58. Nwabanne, J.T and Igbokwe, P.K. Application of Response Surface Methodology for Preparation of Activated Carbon from Palmyra Palm Nut. *N Y Sci J* 2012; 5(9):18-25]. (ISSN: 1554-0200). <http://www.sciencepub.net/newyork>, 2012
59. R.O. Ajemba, **P. K. Igbokwe** and O.D. Onukwuli, Kinetics, Equilibrium, and Thermodynamics Studies of Colour Pigments Removal from Palm Oil using Activated Ukpokor Clay; Archives of Applied Science Research, vol. 4,no. 5, pp 1958 – 1966, 2012. Available online at www.scholarsresearchlibrary.com
60. R.O. Ajemba, V.I. Ugonabo, **P.K. Igbokwe** and O.D. Onukwuli, Analysis of Nitric Acid Activated Ukpokor Clay Structural Transformations and Bleaching properties, Canadian Journal of Pure and Applied Sciences. Vol. 7, no.1, 2013, pp2241- 2250. www.cjpas.net, www.cjpas.org

c) Conference Proceedings and Book of Abstracts

- 1) Onukwuli, O.D., Ukwuoma, P., **Igbokwe, P.K.**, and Aneke, L.E., Printing Ink from Local Raw Materials, Proceedings of the 21st Annual Conference of the NSChE; 6th – 9th Nov., 1991, pp. 113 – 116.
- 2) Onukwuli, O.D., Ukwuoma, P., **Igbokwe, P.K.**, and Aneke, L.E., Effect of Process Variables on the Yields of Oil from Groundnut, Breadfruit, and Palm Kernel, Proceedings of the National Conference on Technological Progress in the Third World Countries, Enugu, 9th – 11th Oct., 1991.
- 3) **Igbokwe P.K.**, Ukwuoma, F.O., Process Optimisation for Energy Management, in the Proceedings of the National Conference on Technological Progress in the Third World Countries, Enugu, 9th – 11th Oct., 1991.
- 4) Onukwuli, O.D., Ukwuoma, P., **Igbokwe, P.K.**, and Aneke, L.E., Production of Activated Clay for Bleaching Red Palm Oil, Proceedings and Book of Abstracts of the 23rd AGM/Annual General Conference on Process Engineering and Industrialisation in Nigeria, NSChE, Warri, 3rd – 6th Nov., 1993, pp.4
- 5) **Igbokwe, P.K.**, and Effiong, E.E., Opportunities for Development of Bio-diesel for Compression – Ignition Engines in Nigeria, Proceedings (on CD – ROM) and Book of Abstracts of the 37th AGM/Annual General Conference on Chemical Engineering and National Energy Processes, NSChE, Enugu, 22nd – 24th Nov., 2007, pp.15

- 6) **Igbokwe, P.K.**, Ugonabo, V.I., Iwegbu, N.A., Akachukwu, P.C., and Olisa, C.J., Kinetics of the Catalytic Esterification of Propanol with Ethanoic Acid using catalysts obtained from Local Sources, Proceedings (on CD – ROM) and Book of Abstracts of the 37th AGM/ Annual General Conference on Chemical Engineering and National Energy Processes, NSChE, Enugu, 22nd – 24th Nov., 2007, pp. 34.
- 7) Ugonabo, V.I., and **Igbokwe, P.K.**, On the Use of Low-cost Modified Kaolinite Adsorbent for Treatment of Vegetable Oil Refining Waste Water Effluent, Proceedings on Interdisciplinary Conference on Chemical, Mechanical and Materials Engineering (World Conference Series with Virtual Participation), hosted by Australian Institute of Energetic Materials in Melbourne, Australia, 7 – 20 Dec., 2009, pp. 157 – 168; www.ausihem.org
- 8) **Igbokwe, P.K.**, and Nwabanne, J.T., Uptake of Heavy Metals from Aqueous Solution: A Comparative Study of Activated Carbons from Waste Biomass, Proceedings on Interdisciplinary Conference on Chemical, Mechanical and Materials Engineering (World Conference Series with Virtual Participation), hosted by Australian Institute of Energetic Materials in Melbourne, Australia, 7 – 20 Dec., 2009, pp. 93 – 101; www.ausihem.org
- 9) **Igbokwe, P.K.**, Olebunne, F.L., Opebiyi, S.O., and Okolomike, R.O., Vapour – Phase Dehydrogenation of Ethanol using Heterogeneous Modified Kaolinite Catalyst, Proceedings on International Conference on Chemical Engineering and Advanced Materials (CEAM), Italy, 2009; <http://www.praiseworthyprize.com/ireche.htm>
- 10) Nwabanne, J.T and Igbokwe, P.K., A Study of fixed bed Adsorption of Heavy Metals on Oil Palm Shell, Proceedings of the Faculty of Engineering Annual Conference on Infrastructural Development and Maintenance in the Nigerian Environment, pp 168 - 178, 2012.

d) Technical Reports

1. **Igbokwe, P.K.**, Differential Distillation of the Heteroazeotropic Binary Systems: Ethyl Acetate – Water and n-Butanol – water, a Technical Report presented for COREN Professional Interview, 1992.
2. **Igbokwe, P.K.**, and Ugonabo, B.C., Waste Recycle; The case of used Rubber Tyres; a technical Report on the Production of Floor Tile Adhesive from Used Rubber Tyres, 1994; a commissioned Report for Jacobon Industries Nig., Ltd., Nkpor – Obosi Rd., Obosi, Anambra State, 1994.
3. **Igbokwe, P.K.**, and Ugonabo, V.I., Production of Latex paints using Modified Cassava Starch Thickener as a Replacement for Hydro ethyl Cellulose, a Technical Report Commissioned by Jacobon Industries Nig., Ltd., Nkpor – Obosi Rd., Obosi, Anambra State, 2007.

e) Designs, Research and Development

1. **Igbokwe, P.K.**, Design of a Laboratory Rectification Column for the Unit Operations laboratory, Department of Chemical Engineering, ESUT, and presented for COREN Professional Interview, 1992.
2. **Igbokwe, P.K.**, Onukwuli, O.D., Oguejiofor, G.C., Development and Fabrication of Laboratory Equipment (Packed Absorption Column, Sedimentation Tank, Vortex

Apparatus) for the Unit Operations Laboratory of the Department of Chemical Engineering, Nnamdi Azikiwe University, Awka, 2005.

F. MAJOR CONFERENCES/SEMINARS/WORKSHOPS ATTENDED

1. FINCOMAT, Enugu, 1990
2. Mid-year Meeting, NSChE, 1990, Enugu
3. National Conference on Technological Progress in the Third World Countries, Enugu, October, 1991
4. 3rd National Engineering Assembly, Benin, 1997
5. Curriculum Development Workshop (Professional Diploma, Post-HND) in Chemical Engineering), NBTE, Kaduna, 14th – 18th Sept., 1998
6. 28th AGM/ANNUAL Conference of the NSChE, 12th – 14th Nov., 1998, Enugu
7. COREN Accreditation Visitation, Lagos State University, Faculty of Engineering, 10th – 14th July, 2000.
8. COREN Accreditation Visitation, University of Uyo, Faculty of Engineering, 13th – 16th October, 2003
9. 1st Annual Workshop/Seminar on Safety in the Chemical Process Industries and Pollution Abatement, NSChE (Anambra, Ebonyi and Enugu States Chapter), Enugu, 10th – 11th December, 2003.
10. 34th AGM and AC, NSChE, Port Harcourt, 25th – 27th November, 2004
11. 14th Engineering Assembly, Abuja, 2005
12. 15th Engineering Assembly, Abuja, July 25th – 26th, 2006
13. Education Trust Fund Capacity Building Workshop for Lectures in Nigerian Universities, Nnamdi Azikiwe University, Awka, September 11 – 13, 2006.
14. 16th Engineering Assembly, Abuja, August 28th – 29th, 2007.
15. Shell Nigeria Exploration and Production Company Deepwater Operations and Challenges Workshop for Nigerian academics, Lagos, 19th November, 2007
16. 37th AGM and AC, NSChE, Enugu, 22nd – 24th November, 2007
17. 17th Engineering assembly, Abuja, September 23rd – 24th, 2008.
18. Interdisciplinary Conference on Chemical, Mechanical and Materials Engineering (World Conference series with Virtual Participation), Australia, December, 7 – 20, 2009.
19. International Conference on Chemical Engineering and Advanced Materials (CEAM), Italy, 2009.
20. Faculty of Engineering Annual Conference on Infrastructural Development and Maintenance in the Nigerian Environment, Nnamdi Azikiwe University, Awka, August 27th – 28th, 2012.
21. 42nd AGM and AC, NSChE, Enugu, 16th – 18th November, 2012

ATTESTATION

I do hereby attest that the information given above is correct.

Signed
Engr. Prof. Philomena K. Igbokwe
February, 2013

