

CURRICULUM VITAE

IBETO CYNTHIA NKOLIKA

BIODATA

Surname: Ibeto
Other names: Cynthia Nkolika
Sex: Female
Date of Birth: 10th of August, 1982.
Place of Birth: Lagos
State of Origin: Anambra
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EDUCATION

Ph.D	PhD in Chemistry (Analytical Chemistry) at Department of Pure and Industrial Chemistry, University of Nigeria, Nsukka, Enugu State, 2010 .
M.Sc.	Master of Chemistry (Analytical Chemistry) at the Department of Pure and Industrial Chemistry, University of Nigeria, Nsukka, Enugu State, 2007 .
B.Sc.	Bachelor of Industrial Chemistry at the Department of Pure and Industrial Chemistry, University of Ibadan, Oyo State, 2004 .

WORK EXPERIENCE

- ❖ Senior lecturer, Department of Pure and Industrial Chemistry, University of Nigeria, Nsukka. (2016).
- ❖ Research fellow I / Lecturer I, National Centre for Energy Research and Development (NCERD) University of Nigeria, Nsukka. (2012).
- ❖ Research fellow II / Lecturer II, National Centre for Energy Research and Development (NCERD) University of Nigeria, Nsukka. (2009).

- ❖ Assistant Research fellow/ Assistant Lecturer, National Centre for Energy Research and Development (NCERD) University of Nigeria, Nsukka. (2008).
- ❖ Part-time Demonstrator, Department of Chemistry University of Nigeria, Nsukka, 2006-2007.
- ❖ Chemistry Officer, University of Nigeria, Nsukka (National Service), 2004-2005.
- ❖ Industrial Trainee as a chemist in International Institute of Tropical Agriculture, 2001.

MEMBERSHIP OF PROFESSIONAL BODIES

- Associate Member, Royal Society of Chemistry (RSC)
- Member, Chemical Society of Nigeria (CSN)
 - ✚ Co-ordinator Women in Chemistry (Nigeria)
 - ✚ Vice Chairman, Enugu State Chapter- Chemical Society of Nigeria (Enugu-CSN)
- Member, Organization of Women in Science for the Developing World (OWSD)
 - ✚ Vice Chairman, University of Nigeria Nsukka Chapter - Organization of Women in Science for the Developing World (UNN-OWSD)
- Member, Institute of Chartered Chemists of Nigeria (ICCON)
- Technical Secretary (Technical Editor/Journal Manger), Solar Energy Society of Nigeria (SESN)

CONFERENCES ATTENDED WITH PAPER PRESENTATION

1. 10th Anachem Conference, 7th –10th November, 2016.

Plenary Lecture: Ibeto, C.N., Environmental Sustainability and Waste Management.

2. Coal City Chem 2016, UBA Hall of Fame, University of Nigeria Nsukka, 4th -6th July, 2016.

Paper presented: Ibeto, C.N. and Nwuga, C.F. Evaluation of Aliphatic and Total Petroleum Hydrocarbons for Risk Assessment in Soil of Coal Camp, Enugu State, Nigeria.

3. 4th Royal Society of Chemistry Early Career Symposium, Glasgow, United Kingdom. 23rd – 24th June, 2016.

Paper presented: Ibeto, C.N. and Enoch, P., Emission potentials and Fuel properties of Torrefied Lignite and its Blends with Biowastes.

4. 38th Chemical Society of Nigeria, International Conference. International Conference Centre, Plot 900 Herbert Macaulay Way, Garki District, Abuja. 6th to 11th of September, 2015.

Paper presented: Ibeto, C.N. and Ayodele, J.A., Analysis of the Combustion Properties and Performance of Composite Coal-Sawdust and Coal-Corn Cob Briquettes under Simulated Cooking Conditions.

5. 45th IUPAC World Chemistry Congress. BEXCO, Busan, South Korea. August 9-14, 2015.

Paper presented: Ibeto, C.N. and Anisha, M.C., Evaluation of the Fuel Properties and Pollution Potentials of Lignite and Its Blends with Cashew Leaf Litter and Rice Husks.

6. National Solar Energy forum in Abuja, 2015. Reiz Continental Hotel, Central Business District, Abuja FCT, Nigeria. 6th and 7th May, 2015.

Paper presented: Ibeto, C.N., Uzoma C.G. and Ofomatah, A.C., Characterization of Briquettes Produced from Nigerian Sub-Bituminous Coal and Its Blends with Palm Fibre.

7. 15th Annual Conference, Coal City Chem. in Centre for Environmental Management and Control (CEMAC) University of Nigeria Enugu Campus, Enugu State. 29th to 31st of July, 2014.

Paper presented: Ayodele, J.A. and Ibeto, C.N., Comparative study of the carbonization of coal and its blends with saw dust.

8. 1st International Conference and Exhibition of Women in Science and Technology in University of Uyo, 3rd-6th of June, 2013.

Paper presented: Ezema, C. G., Ofomatah, A. C. and Ibeto, C. N., Adsorption of Methylene Blue Dye from aqueous solution by Activated Carbon prepared from Okpara Coal.

9. National Solar Energy forum in University of Benin, 12th - 16th November, 2012.

Paper presented: Ibeto, C. N., Ofoefule, A. U., Ofomatah, A. C. and Ugwuoke, P.E., Bioethanol Production from Acid pre-treated Banana (*Musa Aluminata*) peels.

10. Planet under pressure 2012 – “New Knowledge Towards solutions” held at Excel London, United Kingdom from the 25th to 29th March 2012.

Paper presented: Ibeto, C.N., Okpara, C.G. and Ofoefule, A.U., Renewable Energy Based Water Purification Technologies: A Strategic Means of Alleviating Water Crisis and Global Warming.

11. Joint ICTP-IAEA Advanced School on the Role of Nuclear Technology in Hydrogen-Based Energy Systems. 13 June -18 June 2011. Venue: Adriatico Guest House, Trieste, Italy. Paper presented: Ibeto, C.N., Ofoefule, A.U., Anyanwu, C.N. and Ugwuna, N.E., Feasibility of large scale production and utilization of hydrogen fuel in sub-Saharan Africa.

12. 33rd International Annual conference of Chemical Society of Nigeria in Ogun State Cultural Centre, Kuto, 2010. 20th to 24th of September, 2010.

Paper presented: Ofoefule, A.U., Afuaku, T., Ejikeme, P.M. and Ibeto, C.N., Effect of chemical treatment and waste blending on biogas production from leaf litter of kambal (*Chlorophoral Excelsa*).

13. Provincial Electricity Authority (PEA) and Asian Institute of Technology (AIT) International Conference on Energy and Sustainability Developmental Issues and Strategies ESD in Thailand, 2010. 2nd to 4th of June, 2010.

Paper presented: Ofoefule, A.U. and Ibeto, C.N., Effect of Chemical Treatment on Bambara nut (*Vigna Subterranea*) chaff and its blend with some plant and animal wastes for Biogas Production.

14. National Solar Energy forum in Owerri, 2010. 3rd to 6th November, 2010. Senate building, Federal University of Technology, Owerri.

Paper presented: Ofoefule, A. U. and Ibeto, C. N., Investigation of the biogas production potentials from printing paper waste.

15. National Solar Energy forum in Markurdi, 2009. 2nd to 4th of November.

Paper presented: Uzodinma E.O., Ofoefule, A.U. and Ibeto, C.N., Comparative Study Of Biogas Production From Almond (*Prunus Dulcis*), Avocado (*Persea Americana*) And Kola Nut (*Cola Vera*) Tree Leaf Litters.

16. International Conference of Chemical Society of Nigeria in Bauchi, 2009. 6th to 9th of October, 2009. The Multipurpose Indoor Sports Hall, Bauchi, Nigeria.

Paper presented: Ofoefule, A. U., Eme, E. L., Uzodinma, E. O. and Ibeto, C. N. Comparative Study of the Effect of Chemical Treatments on Cassava (*Manihot utilissima*) Peels for Biogas Production.

17. National Conference of Chemical Society of Nigeria in Enugu, 2008. 26th of June 2008. Conference Hall, Federal Secretariat Complex, Independence Layout, Enugu.

Paper presented: Ibeto, C.N. and Onianwa, P.C., Preliminary study of the physicochemical properties of ground water in some areas of Ibadan.

18. International Conference of Chemical Society of Nigeria in Warri, 2008. 22nd to 25th of September, 2008. The Petroleum Training Institute, Effurun, Delta State.

Paper presented: Okoye, C.O.B. and Ibeto, C.N., Determination of bioavailable metals in soils of three Local Government Areas in Enugu State, Nigeria.

19. International Conference of Chemical Society of Nigeria in Abuja, 2007. 24th to 28th of September, 2007. Merit House/RMRDC Maitama, Abuja Nigeria.

Paper presented: Okoye, C.O.B. and Ibeto, C.N. Analysis of different brands of fruit juice with emphasis on their sugar and trace metal content.

WORKSHOPS/SYMPOSIUM/ASSEMBLY ATTENDED

1. “Joint ICTP-IAEA College on Identification and Assessment of Nationally Appropriate Mitigation Actions (NAMAs) in Energy System Development to Help Combat Climate Change”. International Centre for Theoretical Physics (ICTP), Trieste, Italy from the 5th to 9th of May 2014.

2. The National Solar Energy Forum. University Auditorium, University of Ilorin, Ilorin, Nigeria. 11th to 15th of November 2013.

3. Executive Assembly of the World Energy Council at Monte Carlo, Monaco from the 4th to 8th of November, 2012.

4. 2nd International Workshop on Renewable Energy for Sustainable Development in Africa. Hosted by NCERD, UNN and Italian Agency for New and Renewable Energy Technologies, Trisaia Italy and Energy Commission of Nigeria 2010. 27th to 28th of July, 2010. Reiz Continental Hotel, Abuja, Nigeria.

5. 2nd Mandatory Training Workshop on Wealth Creation: The Chemist approach Hosted by Institute of Chartered Chemist of Nigeria. 2010. 24th and 25th of August, 2010. Zodiac Hotels, Independence Layout, Enugu.

6. 3 day Training Workshop on Application of Renewable Energy Devices and Climate Change Mitigation for rural women and farmers within the South East Zone. Hosted by Energy Commission of Nigeria, The States within the South East Geopolitical Zone and

Children of Farmers Club and other Stake Holders. 28th to 30th of June, 2010. Awka, Anambra, Nigeria.

7. 2-Week Training Programme on Renewable and Clean Energy Technologies. Hosted by the National Centre for Energy Research and Development (NCERD) University of Nigeria Nsukka. 2010. 11th to 25th of February, 2010. NCERD, UNN.

8. 3-Day National Training Workshop on Biofuels for Sustainable Energy development in Nigeria. Hosted by Energy Commission of Nigeria in collaboration with National Research Institute for Chemical Technology. 2009. 22nd to 24th of June, 2009. Narict, Zaria, Nigeria.

9. 1st Mandatory Training Workshop on Principles of Chemical Management and Principles of Environmental Impact Assessment. Hosted by Institute of Chartered Chemist of Nigeria. 21st and 22nd of October, 2008. Oranmiyan Hall, Lagos Airport Hotel, Ikeja Lagos.

10. 2-Day National Symposium on Nuclear Science and Engineering in National Development. Hosted by University of Nigeria, Nsukka. 2008. 1st and 2nd of September, 2008. Princess Alexandra Hall, University of Nigeria, Nsukka.

11. The National Solar Energy Forum. 5th and 6th of November 2008. University of Ibadan Conference Centre. Ibadan, Oyo State, Nigeria.

MEMBERSHIP OF PROFESSIONAL COMMITTEES

- Chairperson Technical Committee, 1st OWSD, UNN Chapter, Annual General Meeting and Scientific Conference. 29th May to 1st June 2017.
- Chairperson, Local Organizing Committee for the 15th Annual Conference, Coal City Chem, in Centre for Environmental Management and Control (CEMAC) University of Nigeria Enugu Campus, Enugu State. 29th to 31st of July, 2014.
- Assistant Secretary, Local Organizing Committee for the 3rd International Workshop on Renewable Energy for Sustainable Development in Africa (IWRESDA, 2012).
- Chairperson, Local Organizing Sub-committee for the National Conference of Chemical Society of Nigeria in Enugu, 2012.
- Secretary, Local Organizing Committee of the Workshop on Training professionals on Energy Demand and supply project in Nigeria, 2011.
- Member, Local Organizing Committee for the 2nd International Workshop on Renewable Energy for Sustainable Development in Africa (IWRESDA, 2010).

- Member, Local Organizing Committee for the Chemical Society of Nigeria, Enugu Chapter Conference, 2010.

SOME GRANTS/SCHOLARSHIPS

1. Schlumberger Faculty for the Future Fellowship, Netherlands, March 26th, 2015.
2. Travel Award for Chemists from Under-represented Countries to attend the IUPAC - 2015 (IUPAC 45th World Chemistry Congress and IUPAC 48th General Assembly) held in Busan, Korea, August 9-14, 2015.
3. Analytical Chemistry Trust Fund, Developing World Scholarship, United Kingdom, October 24, 2014.

LIST OF PUBLICATIONS

JOURNAL ARTICLES

1. **Ibeto, C.N.**, Ayodele, J.A. and Anyanwu, C.N. (2016): Evaluation of pollution Potentials and Fuel Properties of Nigerian Sub-Bituminous Coal and its blends with Biomass. *J. Mater. Environ. Sci.* 7 (8) (2016) 2929-2937.
IMPACT FACTOR (SCIMAGO): 0.48
2. **Ibeto, C. N.**, Anisha, M. C. and Anyanwu, C. N. (2016): Evaluation of the Fuel Properties and Pollution Potentials of Lignite Coal and Pellets of its Blends with Different Biowastes. *American Chemical Science Journal.* 14(1): 1-12.
3. Anyanwu, C.N., **Ibeto, C.N.**, Ezeoha, S.L. and Ogbuagu, N.J. (2015): Sustainability of cassava (*Manihot esculenta* Crantz) as industrial feedstock, energy and food crop in Nigeria. *Renewable Energy*, 81:745-752.
IMPACT FACTOR (ISI-JCR): 3.476
4. **Ibeto, C.N.**, Okoye, C. O. B. and Ofoefule, A. U. (2014): Bio-ethanol Production from Thermally Pretreated Corn Chaff and Cassava Waste Water. *International Research Journal of Pure & Applied Chemistry*, 4(2): 227-233.
5. Okoroigwe, E.C., **Ibeto, C.N.** and Ezema, C.G. (2014): Experimental Study of anaerobic digestion of dog waste. *Scientific Research and Essays.* Vol 9 (6): 121-127.
IMPACT FACTOR (SNIP): 0.74
6. Anyanwu, C. N., **Ibeto, C. N.**, Eze, S. and Ezeoha, S. L. (2013): Present and prospective energy use potentials of selected agricultural wastes in Nigeria. *Journal of Renewable and Sustainable Energy* 5, 032703: 1-13.
IMPACT FACTOR (ISI-JCR): 1.149

7. Anyanwu, C.N., Mbajiorgu, C.C., **Ibeto, C.N.** and Ejikeme, P.M. (2013): Effect of reaction temperature and time on neem methyl ester yield in a batch reactor. *Energy Conversion and Management*.74: 81–87.

IMPACT FACTOR (ISI-JCR): 4.380

8. Marcus, A. C., Okoye, C. O. B. and **Ibeto, C. N.** (2013): Bioaccumulation of Trace Metals in Shellfish and Fish of Bonny River and Creeks around Okrika in Rivers State, Nigeria. *Bull Environ Contam Toxicol*, 90:708-713. DOI 10.1007/s00128-013-0992-9.

IMPACT FACTOR (ISI-JCR): 1.255

9. Ofoefule, A. U., **Ibeto C. N.** and Ugwuamoke, I. E. (2013): Determination of Optimum Catalyst Concentration for Biodiesel Yield from Coconut (*Cocos nucifera*) Oil. *International Research Journal of Pure & Applied Chemistry*. 3(4): 357-365.

10. Ofoefule, A.U., **Ibeto, C. N.**, Okoro, U. C. and Onukwuli, O. D. (2013): Biodiesel Production from Tigernut (*Cyperus esculentus*) Oil and Characterization of its Blend with Petro-diesel. *Physical Review & Research International*. 3(2): 145-153.

11. **Ibeto, C.N.**, Okoye, C.O.B. and Ofoefule, A.U. (2012): Comparative Study of the Physicochemical Characterization of Some Oils as Potential Feedstock for Biodiesel Production. *ISRN Renewable Energy*. Volume 2012, Article ID 621518, 1-5. doi:10.5402/2012/621518.

12. **Ibeto, C.N.** and Onianwa, P.C. (2011): Preliminary Study of the Impact of Poor Waste Management on the Physicochemical Properties of Ground Water in some areas of Ibadan. *Research Journal of Environmental Science*. 5 (2): 194-199. ISSN 1819-3412 / DOI: 0.3923/rjes.2011.194.199.

13. **Ibeto, C.N.**, Ofoefule, A.U. and Ezeugwu, H.C. (2011): Fuel Quality Assessment of Biodiesel Produced from Groundnut Oil (*Arachis Hypogea*) and its Blend with Petroleum Diesel. *American Journal of Food Technology*. 6(9): 798-803. ISSN 1557-4571/DOI: 10.3923/ajft.2011.798.803.

IMPACT FACTOR (SCIMAGO): 0.48

14. **Ibeto, C.N.**, Ofoefule, A.U., Agbo, K.E. (2011): A Global Overview of Biomass Potentials for Bioethanol Production- a Renewable Alternative Fuel. *Trends in applied sciences research*. 6(5):410-425. ISSN 1819-3579. DOI:10.3923/tasr.2011.410.425.

15. **Ibeto, C.N.**, Ofoefule, A.U. and Ezugwu, H.C. (2011): Analytical methods for quality assessment of biodiesel from animal and vegetable oils. *Trends Applied Sci. Res.*, 6: 537-553. 10.3923/tasr.2011.537.553. <http://scialert.net/abstract/?doi=tasr.2011.537.553>.

16. **Ibeto, C. N.**, C. G. Okpara, C. N. Anyanwu, I. S. Eze and G.O. Unachukwu (2011): Distribution of Heavy Metals Concentration in Some Sub-Bituminous Coal Samples from Nigeria. *J. Chem. Soc. Nig*. 36(2): 95-101.

17. Ofoefule, A.U., Nwankwo, J. I., **Ibeto, C. N.** and Ezeh, M.I. (2011): Comparative study of the biogas production potentials of plaintain peels and its blends with some animal wastes. *Nigerian Journal of Solar Energy*. 22: 156-162.
18. Ugwu, J.N., Okoye, C.O.B. and **Ibeto, C.N.** (2011): Studies on impact of highway emission and atmospheric depositions on the lead, cadmium and nickel concentrations of cassava flour. *Journal of Ecological Risk Assessment. An International Journal*, 17(2): 478 – 488.
IMPACT FACTOR (ISI-JCR): 1.096
19. Okpara, C.G., Oparaku N.F. and **Ibeto, C.N.** (2011): An overview of water disinfection in developing countries and potentials of renewable energy. *Journal of Environmental Science and Technology*. 4 (1): 18-30. ISSN 1994-7887 / DOI: 10.3923/jets.2011.18.30.
IMPACT FACTOR (SCIMAGO): 0.32
20. Oparaku, N.F., Mgbenka, B.O. and **Ibeto, C.N.** (2011): Waste Water Disinfection Utilizing Ultraviolet Light. *Journal of Environmental Science and Technology*. 4 (1): 73-78. ISSN 1994-7887 /DOI:10.3923/jest.2011.73.78.
IMPACT FACTOR (SCIMAGO): 0.32
21. Okoye, C. O. B., Aneke A.U., **Ibeto, C. N.** and Ihedioha, J.N. (2011): Heavy Metals Analysis of Local and Exotic Poultry Meat. *International Journal of Applied Environmental Sciences*. ISSN 0973-6077 Vol. 6, No 1. pp. 49-55.
22. Okoye, C.O.B., **Ibeto, C.N.** and Ihedioha, J.N. (2011): Preliminary studies on the characterization of orange seed and pawpaw seed oils. *American Journal of Food Technology*. 6(5): 422-426. ISSN 1557-4571. DOI:10.3923/ajft.2011.422.426.
IMPACT FACTOR (SCIMAGO): 0.48
23. Okoye, C. O. B., **Ibeto, C. N.** and Ihedioha, J. N. (2011): Assessment of heavy metals in chicken feeds sold in south eastern, Nigeria. *Advances in Applied Science Research*, 2 (3):63-68.
24. Ofoefule, A.U., Ejikeme, P.M., **Ibeto, C.N.** and Afuaku, T. (2011): Effect of chemical treatment and waste blending on biogas production from leaf litter of kambal (*chlorophoral excelsa*). *International Journal of the Physical Sciences* 6(34): 7811 - 7815, DOI: 10.5897/IJPS11.405. ISSN 1992 – 1950.
IMPACT FACTOR (SNIP indicator): 0.98
25. **Ibeto C. N.** and Okoye C. O. B. (2010): Elevated Levels of Lead in Blood of Different Groups in the Urban Population of Enugu State, Nigeria. *International Journal of Human and Ecological Risk Assessment. Human and Ecological Risk Assessment: An International Journal*, 16(5): 1133 — 1144. DOI: 10.1080/10807039.2010.512257. <http://dx.doi.org/10.1080/10807039.2010.512257>.
IMPACT FACTOR (ISI-JCR): 1.096
26. **Ibeto, C.N.**, Okpara, C.G. and Oparaku N.F. (2010): Comparative Study of Renewable Energy based disinfection methods for Developing countries. *Journal of Environmental Science and Technology*. 3(4): 226-231. ISSN 1994-7887.
IMPACT FACTOR (SCIMAGO): 0.32

27. **Ibeto, C.N.** and Okoye, C.O.B. (2010): High levels of heavy metals in blood of the urban population in Nigeria. *Research Journal of Environmental Sciences*. 4 (4): 371-382. ISSN 1819-3412.

28. Ofoefule, A.U., Eme, E.L., Uzodinma, E.O. and **Ibeto C.N.** (2010): Comparative Study of the Effect of Chemical Treatments on Cassava (*Manihot utilissima*) Peels for Biogas Production. *Scientific Research and Essays* Vol. 5(24): 3808-3813.

IMPACT FACTOR (SNIP indicator): 0.74

29. Okoye, C.O.B., Ugwu, J.N. and **Ibeto, C.N.** (2010): Characterization of rural water resources for potable water supply in some parts of South-eastern Nigeria. *J. Chem. Soc. Nig.* 35(1): 83-88.

30. **Ibeto C. N.** and Okoye C. O. B. (2009): Elevated Cadmium Levels in Blood of the Urban Population in Enugu State Nigeria. *World Applied Sciences Journal*. 7 (10): 1255-1262, 2009. ISSN 1818-4952.

31. Okoye C.O.B. and **Ibeto C.N.** (2009): Analysis of different brands of fruit juice with emphasis on their sugar and trace metal content. *Bioresearch Journal*. 7 (2): 493-495.

CONTRIBUTIONS TO BOOKS

32. **Ibeto, C.N.**, Okoye, C.O.B., Ofoefule, A.U. and Uzodinma, E.U. (2012): Analysis of Environmental Pollutants by Atomic Absorption Spectrophotometry. In: *Spectrophotometry*. Intech Publishers, 2: 25-50.

33. Ofoefule, A.U., Uzodinma, O. and **Ibeto, C.N.** (2011): Waste Water: Treatment Options and its Associated Benefits. *Waste Water - Evaluation and Management*. Intech Publishers 22: 432-446.