**CURRICULUM VITAE**

**Name** Ezeonu, Stella Ogochukwu

**Date of Birth** 30th September, 1970

**Sex** Female

**Marital status** Single

**State of origin** Anambra state

**Nationality** Nigeria

**Contact Address** Department of Physics and Industrial Physics,

Nnamdi Azikiwe University,

**EDUCATION**

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1. Nnamdi Azikiwe University, Awka 2009

Ph.D in Physics/Electronics

Dissertation: Solar Powered Ultrasonic and Sonic Bird Repellers

1. Nnamdi Azikiwe University, Awka 1998

M.Tech in Physics/Electronics

Thesis: Design and Construction of an Ultrasonic Rodent Repeller

1. University of Nigeria, Nsukka 1992

B.Sc (Hons). Second class (Upper Division) in Physics/Education

1. Federal college of Education, Okene 1989

NCE with Double distinction in Physics and Biology

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**ACADEMIC HONOURS AND AWARDS**

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1. Class Valedictorian, Department of Physics, Federal college of Education, Okene.
2. Class Valedictorian, Department of Biology, Federal college of Education, Okene.
3. College PRIZE AWARD WINNER for the Best Graduating student, Department of Physics, Federal college of Education, Okene.
4. College PRIZE AWARD WINNER for the Best Graduating student, Department of Biology, Federal college of Education, Okene.

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**WORKING EXPERIENCE**

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**2017 - Professor,** Department of Physics and Industrial Physics,

Nnamdi Azikiwe University, Awka

**2010 – 2017** Reader, Department of Physics and Industrial Physics,

Nnamdi Azikiwe University, Awka

**2007- 2010** Senior lecturer, Department of Physics and Industrial Physics,

Nnamdi Azikiwe University, Awka

**2004- 2007** Lecturer I, Department of Production Technology,

Nnamdi Azikiwe University, Awka

**2001- 2004** Lecturer II, Department of Production Technology,

Nnamdi Azikiwe University, Awka

**2000- 2001** Assistant Lecturer, Department of Production Technology,

Nnamdi Azikiwe University, Awka

**1999- 2000** Graduate Assistant, Department of Production Technology,

Nnamdi Azikiwe University, Awka

**1996 -1999** Physics Teacher, Community secondary school, Ndiowu

**1993- 1994** Physics Teacher, Community Secondary School, Adoka, Benue State

(NYSC)

**RESEARCH EXPERIENCE**

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**Research Interest**

* Electronics
* Solar Energy
* Material Science

**ACADEMIC LEADERSHIP QUALITIES**

Appointed Editor, Journal of Innovative Research in Engineering and Sciences (JOIRES)

Appointed External Examiner for Msc, Dept of Physics, Ebonyi State University, Abakaliki

**Appointed** External Examiner, Admiralty University of Nigeria

**PROFESSIONAL SERVICE/SPECIAL RECOGNITION**

Sept 1,2016: Appointed Member, Interview Panel Committee (by unsolicited invitation) for the recruitment of all categories of **academic staff** for the proposed **Admiralty University of Nigeria** (a collaborative institution between the Nigeria Navy and Universitas Foundation Cyprus)

**ADMINISTRATIVE EXPERIENCE**

**2019 -** present HOD, Physics/Industrial Physics Dept.

2017 (25th May-23rd June) Acting Director, Pre-Science Programme

2016/2017 Member Lecture Monitoring Committee for the Faculties of

Biosciences and Physical Sciences

2016 - present Member Inaugural lecture committee

2015 (16th Oct-6th Nov) Acting Director, Pre-Science Programme

2014- present Deputy-Director, Pre-Science Programme

2007- 2009Member, Certificate Verification Committee

2002-2007 Member, Task Force for placement of students for Industrial

Attachment

2002-2007 SIWES Co-Ordinator, Dept. of Production Technology

**CONTRIBUTION TO UNIVERSITY/SOCIETY**

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2014 - present Treasurer, Material Science and technology society. Anambra state

chapter

2013 – 2017 Anambra state Co-ordinator, Organization of Women in Science for the

Developing world (OWSDW), Eastern Region

2007- 2009Member, Certificate Verification Committee

2002-2007 Member, Task Force for placement of students for Industrial Attachment

2002-2007 SIWES Co-ordinator, Dept. of Production Technology

2002- 2011 SIWES Supervisor

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**WORKSHOPS ATTENDED**

1. Nnamdi Azikiwe University postgraduate Research Workshop for Staff and Students of Postgraduate School 22nd Jan – 1st Feb, 2018
2. Nnamdi Azikiwe University postgraduate Research Workshop for Staff and Students of Postgraduate School 31st Oct – 4th Nov, 2016
3. 15th Regional College on Modeling, Simulation and Optimization organized by the Institute of Mathematical Sciences, Accra at the University of Cape Coast Ghana. 29th April- 10th May 2013.
4. 14th Regional College on Modeling, Simulation and Optimization organized by the Institute of Mathematical Sciences, Accra at the University of Cape Coast Ghana. April 2012.
5. 13th Regional College on Modeling, Simulation and Optimization organized by the Institute of Mathematical Sciences, Accra at the University of Cape Coast Ghana. 1st -7th May, 2011
6. 12th Regional College on Modeling, Simulation and Optimization organized by the Institute of Mathematical Sciences, Accra at the University of Cape Coast Ghana. 18th-24th April 2010.
7. National Workshop on Solar Cell Design, Processing and Modeling organized by the National Centre for Energy Research and Development, Nsukka in collaboration with University Centre of Excellence for Photovoltaic Research and Education, Georgia institute of Technology USA. Feb, 26th- 2nd march 2007.
8. ICTP-INFN Microprocessor Laboratory (ICTP-KNUST) Regional Micro Electronic Workshop on FPGA and VHDL for Research and Training in Africa. Jointly organized with Kwame Nkrumah University of science and technology, Kumasi, Ghana. July 25th-5th August, 2005.
9. UNESCO Africa Regional Workshop on Active Learning in Optics and Photonics. Held on 15th -19th Nov, 2004 at the University of Cape coast, Ghana
10. National Training Workshop on Photovoltaic Technology Applications held in November, 2001 at the University of Nigeria Nsukka

**Membership of Professional bodies**

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Member, Solar Energy Society of Nigeria

Member, Nigerian Institute of Physics

Member, Organization of Women in Science for the Developing world (OWSDW)

Member, Material Science society

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**CONFERENCE PAPERS**

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1.Ogonnaya E.C, Ikenga A.O, **Ezeonu S.O**, and Nweze C.I (2019). Electrical and

Structural Properties of Polysyrene/graphite Composite by Direct Mixing Method. 42nd

annual conference of Nigeria Institute of Physics held between Nov 18- 22, 2019 at

Federal University of Technology, Owerri.

1. **Ezeonu S.O**, and Nweze C.I Ogonnaya E.C, (2018). Electrical and Structural Properties of Polysyrene/MWCNT Composite by Direct Mixing Method. 3rd African (International) conference on Nanotechnology to Energy, Environment, Agriculture and Health held between 15th- 21st July, 2018 at the University of Nigeria Nsukka
2. Ihueze, C. C., Okafor, E. C. and **Ezeonu, Stella** (2012). “Optimal Design of Natural Fibers Composite Strengths Employing Archimedes Principle’’, ASME, IMECE, 9-15th Nov, 2012, HOUSTON TEXAS, USA
3. **Ezeonu, S.O** (2011). Solar Powered Ultrasonic Bird Repeller. A paper presented at the International Conference on Renewable energy Organized by the centre for Non- Conventional energy Resources at th University of Rajasthan, Jaipur, India between 17th-21st January,2011
4. Nwokoye A.O.C, Okonkwo G.N **Ezeonu, S.O** (2009).Design, Construction and Experimental investigation of a Natural Circulation Pressure Type (thermosiphon) Solar Water Heater. Alternative Energy 2009 International Conference at FUTO Owerri.
5. Okoye A.C, Eboatu,A.N & **Ezeonu, S.O** (2009). Utilization of Solid Waste for Electrcity Generation. A panacea to Poor Energy Supply and Waste Management in Nigeria. Waste-Summit 2009, Abuja, Nigeria.
6. Nwokoye A.O.C, **Ezeonu, S.O** & Aneke T.O (2008). Microcontroller Based Water Tank Filling SystemWith Digital Display Level. A paper presented at the 31st Annual Conference of Nigeria Institute of Physics held at the Federal University of Technology, Owerri. Oct 15th-18th
7. Nwokoye A.O.C, **Ezeonu, S.O** & Chukwu. O(2008). The Design, Construction and Characterization of Automatic Voltage (AVR)Special Voltage Range of 90V-260V with a constant output voltage. A paper presented at the 31st Annual Conference of Nigeria Institute of Physics held at the Federal University of Technology, Owerri. Oct 15th-18th
8. Nwokoye A.O.C, Ezenwaka Laz, Ike C.U & **Ezeonu, S.O** (2007). Experimental Investigation and Analysis of System Performance for a Radioactive Heat Transfer Mechanism of Solar Cover and Absorber Plate. A paper presented at the national energy forum 2007 conference
9. **Ezeonu, S.O** & Shuaibu U.F **(2006).** Design and construction of an intelligent transistor analyzer. A Paper Presented at the International Conference of Micro and Nanotechnologies at the University Mouloud Mammeri Tizi-ouzou, Algeria.
10. Okeke C.E, Nwokoye A.O.C, **Ezeonu, S.O** and Ebuzor N.U **(2006).** TheApplication of Solar Drying Technology to Various Agricultural Produce. A paper presented at the National Solar Energy Forum 2006 Conference.
11. Nwokoye A.O.C, **Ezeonu, S.O,** Akuda B.S & Eze U.C (2006) Development, Performance and Rate of Loss of Moisture of Various Products Using Rockbed Solar Dryer. A paper presented at the National Solar Energy Forum 2006 Conference.
12. Dioha, I.J, **Ezeonu, S.O,** Sambo A.S, Birnin Kebbi, A.M and Tunga U.S(2005). Investigation of the Effects of Temperature on Biogas Production from Poultry Droppings and Neem Tree Leaves. A paper presented at the National Solar Energy Forum 2005 Conference.
13. Birnin Kebbi, A.M, Dioha, I.J, Tunga U.Sand **Ezeonu, S.O** (2005). Effects of temperature on biogas production from rice husks and cow dung. A paper presented at the fourth annual conference of science association of Nigeria.
14. Nwokoye A.O.C, **Ezeonu, S.O** & Ike C.U **(2005)**. Performance, analysis, evaluation and efficiency of integrated solar dryer with three drying chambers. A paper presented at the 28th Annual Conference of Nigeria Institute of Physics at Obafemi Awolowo University, Ife.
15. **Ezeonu, S.O,** Eboatu,A.N & Dioha, I.J (2003). Kinetic studies of biogas production from different substrates and the identification of methanogenic bacteria involved. A paper presented at the national solar energy forum 2003 conference.
16. **Ezeonu, S.O** (2002). Radiation Risks from Electronics Appliances – Health Perspective and Implication for Women. A paper presented at the 3rd International Conference of

National Association for Women Academics

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**CONFERENCE PROCEEDINGS**.

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1. Nwokoye A.O.C, Okonkwo G.N & **Ezeonu, S.O** (2009). Experimental Performance of a Natural Circulation Pressure Type (Thermosiphon) Solar Water Heater and Measurements of Various Temperature Values and Water Flow Rate. Proceedings of the national conference of the solar energy forum 2009.Pp 32-38
2. Birnin Kebbi, A.M, Dioha, I.J, Tunga U.Sand **Ezeonu, S.O** (2006). Effects of temperature on biogas production from rice husks and cow dung. Proceedings of the national conference of the solar energy forum 2006. Pp 152-157.
3. Nwokoye A.O.C, & **Ezeonu, S.O,** Akuda B.S & Eze U.C **(2006)**. Development, Performance and Rate of Loss of Moisture of Various Products Using Rockbed Solar Dryer. Proceedings of the national conference of the solar energy forum 2006. Pp 146 Proceedings of the national conference of the solar energy forum 2006. Pp 146-151.

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**JOURNAL PAPERS**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Ndeche K. C and **Ezeonu S.O** (2021). Implementation of coulomb counting method for estimating the rate of charge of lithium -ion battery. *Physical science international journal,* 25 (3): 1-8
2. Ijeoma Cynthia Onyia, **Stella Ogochukwu Ezeonu**, Dmitri Bessarabov and Kingsley Onyebuchi Obodo (2021). Density functional theory studies of transition metal doped Ti3N2 MXene monolayer. *Computational Materials Sciences*, 197, 110613

3. K. O. Obodo, a G. Gebreyesus,\*b C. N. M. Ouma, c J. T. Obodo,d **S. O. Ezeonu**,

D. P. Raif and B. Bouhafsg (2020) Controlling the electronic and optical properties

of HfS2 mono-layers via lanthanide substitutional doping: a DFT+U study*. RSC Adv*

(10): 15670-15676

1. K.O Obodo, C, N,M Ouma, G. Gebreyesus, J. T. Obodo **S.O Ezeonu** and B. Bouhafs (2019). DFT + U studies of the electronic and optical properties of ReS2 mono-layer doped with lanthanide atoms. *Mater. Res. Express* (6) 106307
2. **Ezeonu S.O,** Ogonnaya E.C and Nweze C.I (2019). Electrical and Structural Properties of Polysyrene/graphite Composite by Direct Mixing Method*. Journal of Advance in Physics Theories and Applications****,*** 81:11-15
3. **Ezeonu S.O** andOgonnaya E.C (2019). Preparation and Properties of Polystyrene/MW-CNT Composites. *Journal of Basic Physical Research* 9. (2): 17-24
4. **S.O Ezeonu** , S.OEzennaya and Aghanwa Sunny (2017). Design, Analysis and Implementation of 0.5KVA Uninterruptible Power Stabilizer. *Physical Science International Journal* 13 (4): 1-25
5. R.U Arinze, A.N Eboatu, H.N Okoye, P.U Ofora, **S.O Ezeonu** and L.N ogbodo (2015). Enhancing the Electrical and Thermal Conductivities of Polystyrene. *African Journal of Basic and Applied Sciences* 7 (2): 113-115
6. C.I Nweze, **S.O Ezeonu**, D Eguonu, J. Ahaneku & C. Udeze (2015). Effect of Applied Voltage on the Optical Properties of ZnS Thin Film Deposited on ITO Glasses Using Electrodeposition Method. *Journal of Multidisciplinary Engineering Science and Technology (JMEST)2(6):* Germany
7. Christian Nweze**,** Masood Akhtar, Mohammed Malik, Paul O’Brien **& Ezeonu Stella** (2015)**.** Effect of Temperature on the Iron Sulphur Ratio of Pyrite Deposited By Aerosol Assisted Chemical Vapour Deposition Method. *Physical Science International Journal, 5 (2):115-122.* USA
8. Aghanwa Sunny & **Ezeonu Stella** (2014). Design and Fabrication of Gas Pressing Iron. *Journal of Multidisciplinary Engineering Science and Technology (JMEST), 1(5):82-89*. Germany
9. Christian Nweze **& Ezeonu Stella (2014).** Optical properties of Semiconducting Pyrite Deposited by Aerosol Assisted Chemical Vapour Deposition (AACVD) Method**.** *Advances in Physics Theories and Application, 34: 21-29.* USA
10. **Ezeonu S.O** & Ogonnaya E.O (2013). Construction and Installation of Solar Powered Borehole for a Primary Health Centre. *Journal of Innovative Research in Engineering and Sciences*, 4(3): 491-494.available online at [www.grpjournal.org/Journal/Category/JOIRES.aspx](http://www.grpjournal.org/Journal/Category/JOIRES.aspx)
11. **Ezeonu S.O**, Okonkwo G.N & Nweze C.I (2013). Investigating the Photovoltaic Behaviour of Light Emitting Diode (LED). *International Journal of Research and Reviews in Applied Sciences* (USA) Vol 15(3): 347-358
12. **Ezeonu S.O**, Amaefule D.O & Okonkwo G.N (2012). Construction and Testing of Ultrasonic Bird Repeller. *Journal of Natural sciences Research* (USA), 2(9) : 8-17 Available online at [www.iiste.org](http://www.iiste.org)
13. Okonkwo G.N & **Ezeonu S.O** (2012). Design and Installation of a mini hydro electric power plant. *Scholarly Journal of Engineering Research*, 1(1): 11-15. Available online at http://www.scholarly-journals.com/SJER
14. **Ezeonu S.O &** Okonkwo G.N (2012). A Microcontroller-based Digital Lock with Alarm System. *Journal of Applied Sciences,*15(1) : 10267-10275.
15. Okoye A.C, Eboatu A.N & **Ezeonu S.O** (2011). Utilization of Solid Waste for Electricity Generation. A panacea to Poor Energy Supply and Waste Management in Nigeria. *Nigerian Journal of Solar Energy*, **22**: 120-129.
16. **Ezeonu S.O &** Okonkwo G.N (2011). Construction and Testing of Electrophoresis Power Supply. *Journal of Applied Sciences Research* (Jordan), 7(4): 457-460
17. Okonkwo G.N & **Ezeonu S.O** (2011). Fabrication and Evaluation of a Prototype Centrifuge. *Journal of Applied Sciences Research* (Jordan), 7(4): 461-464
18. **Ezeonu S.O,** Okonkwo G.N & Uchegbune R.E (2010). Microprocessor Controlled Transistor Analyzer. *Journal of Research in Physical Science*, 6 (2): 96-102.
19. **Ezeonu S.O,** Amaefula D.O & Okonkwo G.N (2010). An Environmentally Friendly Solar Powered Ultrasonic and Sonic Bird Repeller for Rice Farm Applications. *Nigerian Journal of Solar Energy*, **21**: 28-32.
20. **Ezeonu S.O,** Onukwuli T.C, Muogbana L.O & Okafor T.C **(**2009). Design and Implementation of a Smart Card-based Billing System for Petroleum Dispenser. *Nigeria Journal of Physics*, **21**(1): 89-94
21. **Ezeonu S.O &** Shuaibu U.F (2008). Design and Construction of an Intelligent Transistor Analyzer. *African Physical Review (*Italy), **2** (Special Issue): 40-41.
22. Nwokoye A.O.C, **Ezeonu, S.O** & Amah A .N (2008). Function and importance of Automatic Voltage Regulator (AVR) with a Constant Output Voltage. *Journal of Engineering and Applied Sciences,* **4** (1&2): 58-61
23. **Ezeonu S.O,** Okeke S.S.N, Nwokoye A.O.C & Okafor T.C **(2008)**. Preliminary investigation on the bioacoustics effects on birds. *Natural and Applied Science Journal* , **9** (3): 344-348
24. **Ezeonu S.O,** Nwokoye A.O.C, Ike C.U & Emeh S.E (2008). The Design and Construction of the Field Effect Transistor Analyzer. *Natural and Applied Science Journal*, **9** (2): 237-242
25. Okeke C.E, Nwokoye A.O.C, **Ezeonu S.O** and Ebuzor N.U **(2007). The** Application of Solar Drying Technology of Various Agricultural Produce. *Nigerian Journal of Solar Energy*, **18**: 16-26.
26. Nwokoye A.O.C, **Ezeonu S.O** & Ike C.U **(2006)**. Performance, analysis, evaluation and efficiency of integrated solar dryer with three drying chamber. *Nigeria Journal of Physics* **17**: 257-267.
27. **Ezeonu S.O,** Nwokoye A.O.C, & Okoye A.C (2006). Review of Cell Phone Radiation: The Health Implications. *Natural and applied science journal*, **7** (1&2):131-143.
28. **Ezeonu S.O,** Eboatu,A.N & Dioha, I.J (2005). Daily Biogas Production from Different Substrates and the Identification of Methanogenic Bacteria Involved. *Nigerian Journal of Solar Energy*, **15**: 81-84.
29. Okeke S.S.N & **Ezeonu S.O** (2004). Design, Construction and Characterization of an Ultrasonic Rodent Repeller. *Journal of Applied Sciences*, **8**: 4536 - 4543.
30. Okeke S.S.N & **Ezeonu S.O** (2003). Techniques for the generation of ultrasound – A Review. *Natural and Applied Science Journal*, **5** (1&2): 128 - 138

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**BOOKS**

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1. **Ezeonu S.O** (2013) “**Laser Soldering”** in “Materials Science-Advanced Topics” edited by Yitzhak Mastai. InTech Publishers Croatia
2. **Ezeonu, S.O (2006).** Introduction to Laser Technology. Rex Charles and Patrick Ltd, Nimo, Nigeria. 124pages.
3. Nwokoye A.O.C, & **Ezeonu, S.O (2005).** Intermediate Electronics and Circuit Theory. Rex Charles and Patrick Ltd, Nimo, Nigeria. 215pages