

CURRICULUM VITAE

1. Name NYIOR Geoffrey Bem
2. Date and Place of Birth: 19/08/1964 at Uyoo –Nanev
3. Nationality: Nigerian
4. L.G.A.: Kwande
5. Permanent Home Address: C/o St Ann’s Parish, Adikpo, Benue State.
6. Present Address: Dept. of Mechanical Engineering, Federal University of Agriculture, Makurdi.
7. Email/GSM No. gbnior2003@yahoo.co.uk;
08037015479
8. Marital Status: Married.
9. Number and Ages of Children: 5 Children- 12,10,8,6 & 3 years respectively.
10. Current Rank and Salary: Professor, CONUASS 7/6

11. Educational Institutions Attended with Dates:

- i) Ahmadu Bello University, Zaria 2004 – 2008
- ii) Ahmadu Bello University, Zaria 1990 – 1995
- iii) Ahmadu Bello University, Zaria 1983 – 1987
- iv) School of Basic Studies, A.B.U., Zaria 1982 – 1983
- v) Mt. St. Gabriel’s Sec. Sch., Makurdi 1976 – 1981
- vi) St. Ann’s Primary Sch., Adikpo 1971 – 1976

12. Academic Qualifications Obtained with Dates:

- i) PhD Metallurgical Engineering, Ahmadu Bello University, Zaria – 2008
- ii) M.Sc. Metallurgical Engineering, Ahmadu Bello University, Zaria - 1995

- iii) B.Eng. Metallurgical Engineering, Ahmadu Bello University, Zaria – 1987
- iv) IJMB A' Level, School of Basic Studies, Ahmadu Bello University, Zaria – 1983
- v) General Certificate of Education (GCE), Mt. St. Gabriel's Sec. Sch., Makurdi – 1981

13. Working Experience

- i) Professor, Federal University of Agriculture, Makurdi, 2014 to date
- ii) Professor, Ahmadu Bello University, Zaria, 2013 - 2014
- iii) Visiting Researcher on Sabbatical leave, National Metallurgical Development Center, Jos, 2011 - 2012
- iv) Reader, Ahmadu Bello University, 2010
- v) Senior Lecturer, Ahmadu Bello University, Zaria, 2007 – 2010
- vi) Lecturer I, Ahmadu Bello University, Zaria, 2001 – 2007
- vii) Lecturer II, Ahmadu Bello University, Zaria, 1995 – 2001
- viii) Asst. Lecturer, Ahmadu Bello University, Zaria, 1989 – 1995
- ix) Physics/Mathematics Teacher, St Francis Sec. Sch. Ikot-Ataku, Eket (NYSC), 1987-1988
- x) Student Industrial Work Experience Scheme I, Makeri Smelting Company, Jos, 1985
- xi) Student Industrial Work Experience Scheme II, Nigerian Spanish Engineering Company, Kano, 1986

14. TEACHING EXPERIENCES

a. UNDERGRADUATE TEACHING

COURSES TAUGHT/EXAMINED

- i. Material Science ,
- ii. Mechanical Metallurgy 1
- iii. Mechanical Metallurgy II
- iv. Fundamentals of Materials Testing
- iv. Metallurgical Analysis II
- v. Mechanical Working of Metals I
- vi. Mechanical Working of Metals II

b. POST GRADUATE TEACHING

- i. Advanced Metal Working
- ii. Fracture Mechanics and Failure Analysis
- iii. Experimental Techniques (Stress Analysis)
- iv. Environmental Impact Assessment
- v. Advanced Structure and Properties of Materials
- vi. Advanced Composite Materials
- vii. Advanced Phase Transformation
- viii. Advanced Powder Metallurgy

c. **POSTGRADUATE SUPERVISION:**

- i. Aigbodion Victor Sunday (Ph.D/ENG/10949/2007-2008) Development of Al-Cu-Mg/Bagasse Ash Particulate Composites, Completed 2010
- ii. Isah, Lawrence Anthony (Ph.D/ENG/01886/2006-07), Evaluation of Mahogany (Khaya) Seed Oil as Austempering Medium for the Austempering of Ductile Iron – 2011
- iii. Alemaka, Emmanuel (Ph.D/Env. Des/17310/2007-08), Design and Fabrication of Foot Bellows for Glass Bead Making Furnace - 2015
- iv. Oghenevweta, Erhuvwu Joseph (M.Sc/ENG/04812/2008-2009), The Potentials of Maize Stalk Ash as Reinforcement in Polymer Matrix Particulate Composite – 2012
- v. Gaminana, Jimoh Ohinoyi (M.Sc/ENG/05396/2006-07), Evaluation of Tribological Characteristics of Neemseed and Tigernut Oils for Industrial applications – 2011
- vi. Yakubu, Onimisi Hassan (M.Sc/ENG/12822/2010 -2011), Effect of Iron and lubrication on edge cracking propensity in cold-rolled commercial Aluminium alloy 8011 – 2015
- vii. Olaleye Jamiu Olaniyi (M.Sc/ENG/11585/2010-2011), Suitability of some fatty acid based oils in drilling operation of plain carbon steel – 2016
- Viii. Oji Ochea Emmanuel (M.Sc/ENG/14068/2010-2011), Failure Analysis of locally produced grinding plate used in gold ore beneficiation process – 2015
- ix. Nwabufoh Micheal Nebolisa (M.Sc/ENG/01731/2010-2011), Development and characterization Al-Cu-Mg/periwinkle ash particulate composite for wear applications – 2016
- X. Tile Joseph, The Development and Evaluation of Some Properties of Raffia palm fibre/groundnut shell particulate/epoxy hybrid Composite - 2018

16. ADMINISTRATIVE DUTIES UNIVERSITY/FACULTY/DEPARTMENT

- | | | |
|-------|---|------------------------|
| i | Member Budget Monitoring Committee, University of Agriculture, Makurdi | 2017 – |
| li | Chairman Senate Standing Committee on Examination Results, University of Agriculture, Makurdi | 2015 - |
| lii | Member University of Agriculture Makurdi Senate | 2014 – |
| iv. | Dept'l Rep. Fac. Standing Committee | 2012 – 2013 |
| v. | Member University housing allocation committee | 2004- 2006 |
| vi. | Departmental SIWES Officer | 1997-2002, 2007 - 2011 |
| vii | Departmental Examination Officer | 1998 – 2005 |
| viii. | Departmental Registration Officer | 1991-1994 |

17. PROFESSIONAL SERVICE / HONOUR SOCIETIES

Fellow, Nigerian Metallurgical Society (MNMS)

Member, Nigerian Society of Engineers (MNSE)

Registered Engineer (COREN)

18. COMMUNITY/NATIONAL SERVICES

a. UNIVERSITY/INSTITUTE/CENTRE/FACULTY/DEPARTMENT

- i Associate Editor (Engineering/Technology) Journal of Agriculture, Science and Technology (JAST), 2017 –

- ii Member Selection Board for the appointment of Bursar for University of Agriculture Makurdi, 2017

- iii Chairman, Metallurgical & Materials Engineering Dept'l Staff Welfare Committee, 2007 to 2013

- iv Chairman, Metallurgical & Materials Engineering Department's Linkages Committee, 2008 to 2012

- v.. Associate Editor Nigerian Journal of Engineering, 2007 to 2014

b. OTHERS

- i. Secretary, Club 95, Zaria, 1995- 1999; 2004 - 2007

- ii Member COREN Accreditation Panel to the Engineering Programmes of University of Uyo, Uyo, Akwa Ibom State, 6th - 10th May, 2012

- iii. Member COREN Accreditation Panel to the Engineering Programmes of Landmark University, Umo Aran, Kwara State, 28th November – 2nd December 2012.

- iv. External Examiner for postgraduate theses in the Department of Mechanical Engineering, University of Uyo, Akwa Ibom State, 2015, 2016 and 2017
- v External Examiner for postgraduate theses in the Department of Industrial Design, Ahmadu Bello University, Zaria, 2015, 2016 and 2018
- vi. External Assessor for Professorial promotion for the Department of Mechanical Engineering, Nnamdi Azikiwe University, Awka, 2015 and 2017.
- Vii Member NUC AD-HOC Accreditation Panel for evaluation of undergraduate degree programmes in Engineering at Kwara State University, Malete, 20 – 24 March 2016
- Viii Member NUC AD-HOC Accreditation Panel for evaluation of undergraduate degree programme in Mechanical Engineering at the Niger Delta University, Wilberforce Island, Amassoma, 31st May – 2nd June 2017
- ix Member NUC AD-HOC Accreditation Panel for evaluation of undergraduate degree programme in Mechanical Engineering at the Akwa Ibom State University, Ikot Akpaden, 20th May – 22nd May 2018

19. PUBLICATIONS

a PEER REVIEWED JOURNALS

- i. **NYIOR G.B.**, and Dauda E.T. (2000): Evaluation of Vegetable Oils as Lubricants in Deep-drawing Operations, *Nigerian Journal of Engineering*, Vol.8, No.2: P84 – 89. Faculty of Engineering, Ahmadu Bello University, Zaria.

- ii. **NYIOR G.B.** and Dauda E.T. (2001): Evaluation of some vegetable oils as lubricants in cold extrusion of steel, *Science forum- Journal of Pure and Applied Sciences*, Vol.4, No.1: P106 – 112. School of Science & Science Education, Abubakar Tafawa Balewa University, Bauchi, Nigeria.
- iii. **NYIOR G.B.** and Dauda E.T. (2002): Effect of Varying Stress Amplitude on the fatigue resistance of Aladja ST60-0 Steel, *Nigerian Journal of Engineering*, Vol.10 No.1, pp131 – 136. Faculty of Engineering, Ahmadu Bello University, Zaria, Nigeria.
- iv Dauda E.T.; **NYIOR G.B.**; Oloche O.B. & Mudiare E. (2004): The effect of nitric acid in phosphating mild steel components, *The Nigerian Journal of Research and production*, Vol.4, No.3, pp39-43, March 2004. Enugu State University of Science and Technology, Enugu.
- v. Dauda E.T.; **NYIOR G.B.**; Mohammed R.A. (2005): Quenching effects of water and brine on the hardening properties of plain carbon steels, *The Academic Forum*, Vol. 9, No. 4, pp 98-101. Faculty of Engineering and Technology, Nnamdi Azikiwe Univesity, Awka
- vi. **NYIOR G.B.**; Enegele, P.O., Dauda E.T.; Mohammed R.A. (2006): Improving some mechanical properties of aluminium bronze via siliconizing, *Journal of Engineering and Technology*, Vol. 1, No. 1, pp 37-44, Faculty of Technology, Bayero University, Kano.
- Vii **NYIOR G.B.**, Oyinlola A.K., Oloche O.B., & Hassan S.B. (2006): An evaluation of reinforcing steel bars produced by Universal Steel Company, Lagos – Nigeria, *The Anchor- journal of general studies*, Vol. 1, No. 1, pp 102 – 107, Division of General Studies, University of Abuja.
- Viii **NYIOR G.B.**, Oyinlola A.K., Hassan S.B., & Aponbiede O. (2006): An evaluation of reinforcing steel bars produced by Federated Steel Company, Otta – Nigeria, *International journal of Science & Laboratory Technology*, Vol. 6, pp 39 – 44, Glass Technology, Department of Industrial Design, Ahmadu Bello University, Zaria
- ix **NYIOR G.B.**; Oyinlola A.K.; Oloche O.B. & Hassan S.B. (2007): An investigation into some properties of reinforcing steel bars manufactured by Nigeria Spanish engineering company, Kano, *Journal of Engineering and Technology*, Vol. 2, No. 2, pp 1 – 6. Faculty of Technology, Bayero University, Kano.

- x Hassan S.B., Dauda E.T, **NYIOR G.B.** & Mohammed R.A. (2007): Evaluation of local vegetable oils as quenchants for hardening process in grey cast iron, *Journal of Applied Science, Engineering and Technology*, Vol. 7, No.2, pp 13-21.
- xi. Hassan S.B., Mohammed R.A., **NYIOR G.B.**, Dauda E.T. (2008): The effect of nickel additions on microstructure and mechanical properties of as-cast and austempered ductile cast iron, *Nigerian Journal of Engineering*, Vol. 14 No. 1, 26-33
- xii V.S. Aigbodion, S.B. Hassan, T. Ause and **G.B. NYIOR** (2010): Potential Utilization of Solid Waste (Bagasse Ash), *Journal of Minerals & Materials Characterization & Engineering*, Vol. 9, No. 1, pp67 – 77.
- xiii Aigbodion V.S., Hassan S.B., **NYIOR G.B.**, & Ause T. (2010): Effect of Bagasse ash reinforcement on the wear behaviour of Al-Cu-Mg/Bagasse ash particulate composites, *Acta Metallurgical Sinica*, Vol. 23, No. 2, pp 81-89, www.amse.org.cn.
- Xiv E.T Dauda, S.B. Hassan, O. Aponbiede, **G.B. Nyior**, & R.A. Mohammed (2010) The Assessment of Microstructure and Hardness Characteristics of Some Welded Low Carbon Steels, *Nigerian Journal Of Engineering*, Vol. 17, No. 1, pp 67- 73.
- Xv P.A. Ihom, **G.B. Nyior**, M.U. Suleiman, & G.Z. Ibrahim, (2011) Improving Surface Hardness of Steel Using Rice Husk Waste, *Nigerian Journal of Tropical Engineering*, Vol. 7, No. 2, pp 107- 115
- xvi Hassan, S.B., Oghenevweta E.J., & **Nyior G.B.**, (2011) Physical and Thermal Behaviour of Maize Stalk Ash Particulate/Polyester Composites, *Journal of Metallurgy and Materials Engineering*, Vol. 6. No. 1, pp 41 - 48
- xvii P.A. Ihom, **G.B. Nyior**, & M. Ambayin (2012) Surface Hardness Improvement of Mild Carbon Steel Using Arecaeae Waste Flower Droppings, *The Pacific Journal of Science and Technology*, Vol.13, No.1, pp 133 – 138.
- xviii Ihom P.A., Suleiman U., Mohammed D., & **Nyior G.B.**, (2012) Impact of Swelling Indices of Sokoto Clays on the Moulding Properties of the Clays in Sand Mixtures, *Journal of Minerals & Materials Characterization and Engineering*, Vol. 11, pp 1050 – 1054.
- xix Ihom P.A., Suleiman M.U., **Nyior G.B.** & Ogbodo J. (2012) Precipitation Hardening Characteristics of Aluminium Matrix – Glass Reinforced Composite, *Novus Journal of Analytical Innovations*, Vol.1, No. 3, pp 10 – 18.

- xx Ihom P.A., **Nyior G.B.**, Alabi O.O., Anbua E.E., Ogbodo J. & Segun S. (2012) Solid Waste Management: The Use of Broken Waste Bottles as Reinforcement Agent for Aluminium Matrix Composite, *International Journal of Science and Technology*, Vol. 1, No. 10, pp 546 – 551
- xxi Ihom A. Paul, **Nyior, G. Bem**, Nor- Iv, Justine, Segun Solaogun, Ogbodo Joy (2012) Evaluation of the Corrosion Resistance of Aluminium Alloy Matrix/2.5% Particulate Glass Reinforced Composite in Various Media, *International Journal of Science and Technology*, Vol. 1, No. 10, pp 560 – 568
- xxii Ihom A.P., **Nyior G.B.**, Nor I.J., Ogbodo N.J., (2013), Investigation of Egg Shell Waste as an Enhancer in the Carburization of Mild Steel, *American Journal of Materials Science and Engineering*, Vol. 1, No. 2, pp 29 – 33
- xxiii S.B. Hassan, J.E. Oghenevweta, **G.B. Nyior**, V.S. Aigbodion (2013), The effect of Vacuum Carbonisation of Waste Maize Stalk on the Thermal Resistance of Polyester/Maize Stalk Particulate Composites, *Plastic and Polymer Technology (PAPT)*, Vol. 2, Issue 3, pp 68 - 76
- xxiv J. E. Oghenevweta, V. S. Aigbodion, **G. B. Nyior**, F. Asuke (2016) Mechanical properties and microstructural analysis of Al-Si-Mg/carbonized maize stalk waste particulate composites. *Journal of King Saud University – Engineering Sciences*, 28, 222 - 229
- xxv **Nyior, G.B.**, Aye, S.A. and Tile, S.E. (2018) Study of Mechanical Properties of Raffia Palm Fibre/Groundnut Shell Reinforced Epoxy Hybrid Composites. *Journal of Minerals and Materials Characterisation and Engineering*, 6, 179 – 192
- xxvi J. M. Tile, **G. B. Nyior**, M. S. Sidi (2018) Mechanical Properties of Al-Mg-Si/Groundnut Shell Particulate Composite. *American Journal of Engineering Research*, 7, 5, 247 – 252
- xxvii **Nyior, G. B.** and Mgbeahuru E. C. (2018) Effects of Processing Methods on Mechanical Properties of Alkali Treated Bagasse Fibre Reinforced Epoxy Composite. *Journal of Minerals and Materials Characterisation and Engineering*, 6, 345 - 355

b. CONFERENCE PROCEEDINGS

- i Dauda E.T., Obi A.I and **NYIOR G.B.** (2000), Effects of Zinc on the mechanical properties of cast brass, p. 119-121, *Proceedings 23rd annual conference of Nigeria Institute of Physics*, A.B.U., Zaria.

- ii **NYIOR G.B.**, Dauda E.T. & Mohammed R.A. (2008): Metal recycling – an under tapped goldmine in Nigeria, pp 86 – 88, *Proceedings of the 25th Nigerian Metallurgical Society's Annual Conference, Akure*
- iii Hassan S.B., Aigbodion V.S., Dauda E.T., **NYIOR G.B.** & Mohammed R.A. (2008): The effect of thermal ageing on microstructure and mechanical properties of Al-Si-Fe/Mg alloys, *Proceedings of the 7th Annual Congress of the Materials Society of Nigeria.*
- iv **Nyior G.B.**, Dauda E.T. & Mohammed R.A. (2011) Building the Capacity of the Metallurgical & Materials Sub-sector to meet the Challenges of Contributing to the Growth of Nigeria's Industrial Sector, *Proceedings of the 27th Annual Conference of the Nigerian Metallurgical Society, pp 41-43*
- v Ambayin M.N., Ihom A.P. & **Nyior G.B.**, (2011) The Challenges of Research in the Metallurgical and Materials Sector in the 21st Century Nigeria, *Proceedings of the 27th Annual Conference of the Nigerian Metallurgical Society, pp 149-155*
- vi **Nyior, G.B.**, Dauda E.T., Mohammed R.A., (2012), Effect of the State of Steel Plants on the Quality of Steel Reinforcing Bars in Nigerian, *Proceedings of 28th Annual Conference of the Nigerian Metallurgical Society, pp 148 – 152*
- vii Tile J.M., **NYIOR G.B.**, Gundu D.T. (2016), Effect of Melon Seed Oil Lubricant on Extrusion Load, Hardness and Microstructure of Cold Extruded Aluminium Alloy, *Proceedings of the Nigerian Metallurgical Society's Annual Conference, Kaduna*, pp. 133 – 136

c. PAPERS PRESENTED AT WORKSHOPS/SEMINARS

- i. Resource person at training workshop on *Rolling Technology and Roll pass Design* for engineers of Jos steel rolling company by IAN Associates Nig. Ltd , Kaduna, 5th – 8th September, 1996, Jos.
- ii. Resource person at a training workshop on *Metallurgical Appraisal for Foundry and Welding Technicians*, organized by IAN Associates Nig. Ltd., Kaduna, for Tri Systems Nig. Ltd., Kaduna, 16th – 19th November, 1999, Kaduna.

- iii. Resource Person at a training workshop on *Foundry and Welding Techniques and Composite Materials*, organized by Funyi Ventures Limited, Kaduna, for Centre for Automotive Design and Development, Zaria, 5th – 9th October 2009, Zaria
- iv. **Nyior G.B.** (1994). The extrudability of Aladja ST60-2 structural steel using local vegetable oils as lubricants. A postgraduate seminar presented at the Department of Metallurgical Engineering, Ahmadu Bello University, Zaria. 25th March 1994.
- v. **Nyior G.B.** (2007). Suitability of locally produced reinforcing steel bars in the construction industry (I), First seminar on PhD dissertation presented at the Department of Metallurgical Engineering, Ahmadu Bello University, Zaria, 23rd July, 2007.
- vi. **Nyior G.B.** (2007). Suitability of locally produced reinforcing steel bars in the construction industry (II), Second seminar on PhD dissertation presented at the Department of Metallurgical Engineering, Ahmadu Bello University, Zaria, 6th August, 2007.
- vii. **Nyior G.B.** (2011). Research – the importance, process and principles, presented at an in-house seminar at the National Metallurgical Development Center, Jos, June 23, 2011

20. REFEREES AND ADDRESSES

- i. Professor Abugh Ashwe
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Department of Mechanical Engineering,
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- ii. Professor S.B. Hassan,
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