

Name: Benedict Uche ANYANWU

Status: Lecturer I

Abridged Profile:

Engr. Ben ANYANWU is currently a Lecturer with the Department of Mechanical Engineering, College of Engineering, Federal University of Agriculture Abeokuta. He is a native of Asaba in Delta State, Nigeria. He holds a B.Eng Degree in Metallurgical and Materials Engineering from Nnamdi Azikiwe University, Awka, Anambra State, Nigeria and a M.Sc. Degree in Mechanical Engineering (Materials Technology Option) from the University of Ibadan, Oyo State, Nigeria. He is currently a Doctoral Student of Mechanical Engineering (Materials Technology Option) at the University of Ibadan, Ibadan, Nigeria.

Ben Anyanwu is a Registered Engineer with the Council for the Regulation of Engineering in Nigeria (COREN) and a Corporate Member, Nigerian Society of Engineers (MNSE). He is also a Professional Member of the Materials Society of Nigeria (MMSN) and International Association of Engineers, among others.

He was among the team of Engineers for Sykes EnergiProjekts Ltd, Ikeja, Lagos, that designed and constructed the 264,000 m³ Capacity Oil Depot for Masters Energy Ltd, Akar Base, Portharcourt; 63,000 m³ Capacity Oil Depot for Ibafor Oil, Epz Free Trade Zone, Calabar and the 63,000 m³ Capacity Oil Depot for Matrix Energy, Ubeji, Warri. He joined the services of the Federal University of Agriculture Abeokuta, in July 2010.

His research interests are in the area of mechanics of non-metallic and metallic materials. It focuses on enhancement or improvement of materials employed in construction / structural and automobile applications, ceramic and glass technology. Minor areas of interest are in cutting fluids formulations and machining, lubrication oils for friction and wear reduction in machine parts, briquette production etc.

Official Email Address: anyanwubu@funaab.edu.ng

Updated CV:

01. PERSONAL DATA

- | | |
|---------------------|--------------------------------|
| i. Name: | ANYANWU Benedict Uche |
| ii. Date of Birth: | 31 st October, 1983 |
| iii. Age: | 37 |
| iv. Place of Birth: | Ibadan |
| v. Sex: | Male |
| vi. Marital Status: | Married |
| vii. Nationality: | Nigerian |

- viii. Town and State of Origin: Asaba, Delta State
- ix. Contact Address: C/O Mechanical Engineering Department,
COLENG, FUNAAB, Abeokuta
- x. Phone Number: +2348035479477.
- xi. E-mail Address: anyanwubu@funaab.edu.ng
- xii. Present Position and Salary Lecturer II (CONUASS 03/03 ₦1,758,636.96)
- xiii. Post on Promotion Lecturer I

02. EDUCATIONAL BACKGROUND

i. Educational Institutions Attended (With Dates)

- a. University of Ibadan, Ibadan, Oyo State, Nigeria. 2014- 2016
- b. Nnamdi Azikiwe University, Awka, Anambra State, Nigeria. 2001-2006
- c. Osadenis High School, Asaba, Delta State, Nigeria. 1994-1999

ii. Academic Qualifications (With Dates)

- a. M.Sc. Mechanical Engineering (Material Technology Option) 2016
- b. B.Eng.(Metallurgical & Materials Engineering) 2006
- c. Senior Schools Certificate Examination (SSCE) 1999

iii. Professional Qualifications (With Dates)

- a. Member, International Association of Engineers (Reg. No: 127231). 2013
- b. Registered Engineer, Council for Regulation of Engineering in Nigeria (Reg. No: R.22807). 2012
- c. Corporate Member, Nigerian Society of Engineers (Reg. No: 26552). 2011
- d. Professional Member, Material Society of Nigeria (Reg. No: P/1120). 2011

iv. Prizes, Honours and Awards.

- a. Tertiary Education Trust Fund (TETFund) Academic Staff Training and Development Grants Award. 2019
- b. FUNAAB Award of Appreciation for outstanding contribution to the success of the 23rd, 24th and 25th Combined Convocation Ceremonies of the University. 2018

03. WORK EXPERIENCE**I. Work Experience Within the University System**

a. Federal University of Agriculture, Abeokuta, Nigeria.

Position: Lecturer II, Mechanical Engineering Department. 29th Sept., 2017 –To Date.

i. Teaching Load (Contact Time – Hours)

Course Code / Title	Units	No. of Lecturers	2016/2017	2017/2018	2018/2019
			Point	Point	Point
MCE 524 / Production Management	3	1	1.5	-	-
MCE 532 / Engineering Materials and Economics	3	3	-	-	1.5
MCE 505 / Tribology	3	1	1.5	1.5	1.5
MCE 318 / Metallurgy I	2	1	1.0	1.0	-
MCE 341 / Engineering Mathematics I	3	2	1.5	1.5	1.5
MCE 315 / Theory of Elasticity	3	1	1.5	-	-
MCE 205/ Fluid Mechanics I	2	1	1.0	1.0	1.0
MCE 102 / Introduction to Mechanical Engineering	1	1	0.5	0.5	-
Total points			8.5	5.5	5.5
Cumulative for 3 years			19.5		
Average Point			6.5		

ii. Students Population (Class Size)

Course Code / Title	Units	No. of Lecturers	2016/2017		2017/2018		2018/2019	
			No of Students	Point	No of Students	Point	No of Students	Point
MCE 524 / Production Management	3	1	40	0.5	-	-	-	-
MCE 532 / Engineering Materials and Economics	3	3	-		-		42	0.5
MCE 505 / Tribology	3	1	40	0.5	42	0.5	41	0.5

MCE 318 / Metallurgy I	2	1	105	1.5	107	1.5	-	-
MCE 341 / Engineering Mathematics I	3	2	265	1.0	270	1.0	272	1.0
MCE 315 / Theory of Elasticity	3	1	3	0.5	-	-	-	-
MCE 205 / Fluid Mechanics I	2	1	455	2.0	465	2.0	505	2.5
MCE 102 / Introduction to Mechanical Engineering	1	1	45	0.5	50	0.5	-	-
Total points				6.5		5.5		3.5
Cumulative for 3 years	15.5							
Average Point	5.17							

- b. Federal University of Agriculture, Abeokuta, Nigeria.
Position: Laboratory Scientist I, Mechanical Engineering Department.
Date: September 16, 2014 –September 28, 2017.
- c. Federal University of Agriculture, Abeokuta, Nigeria
Position: Technologist II, Mechanical Engineering Department.
Date: July 2, 2010- September 16, 2014

II. Previous Work Experience Outside the University System

- a. Sykes EnergiProjekts Ltd, 18B Olorumbe Street, Wemabod Estate, Ikeja, Lagos.
Mobile: 01-7397054, 08034441774, 08026732467.
Position: Ag. Project Engineer
Date: March, 2008 – June, 2010
- b. Abofem Construction Ltd., 60 Matthew Street, Ado-Ekiti.
Position: Asst. Site Supervisor (NYSC)
Date: March, 2007- February, 2008.

04. SPECIAL ASSIGNMENTS / COMMUNITY SERVICE

Departmental Assignments

- i. Examination Officer 2017 – To date
- ii. Course Adviser to 300 Level Students 2018/2019 Session
- iii. Course Adviser to 200 Level Students 2017/2018 Session
- iv. Course Adviser to 100 Level Students 2016/2017 Session

College Assignments

- v. Member, COLENG Equipment Support Committee. 2nd October, 2019 - To Date
- vi. Member, College of Engineering Induction Committee. 2nd October, 2018 - To Date
- vii. Member, College of Engineering Conference Committee. 2nd October, 2018 - To Date
- viii. Member, College of Engineering College Board. October, 2017 – To Date
- ix. Member, College Committee on Examination Results (COCER). Oct., 2017 – To Date

University Assignments

- x. Member, FUNAAB CERECOM July 2016 - December, 2017

Community Service

- xi. Chairman, Tenants in Blocks D1, E1 and F1, Road 3, Mats Estate, Gbonagun, Obatonko, Abeokuta. September, 2014 – October, 2019.
- xii. Member, FUNAAB Staff Football Team. October 2012 – To Date
- xiii. Member COLENG, FUNAAB, Football Team. October 2012 – To Date.
- xiv. Represented COLENG in the Men’s Table Tennis Championship in the FUNAAB Staff Unity Games. October, 2012.

05. TRAINING ATTENDED (With Dates)

- i. A 3-Day Collaborative Academic Resuscitation and Transformation (UI-CART) Project in Science and Technology: Capacity Building Workshop for early Career and Postgraduate Researchers in Science and Technology, held at the Faculty of Science, University of Ibadan, Oyo State, Nigeria from May 14 – 16, 2019.
- ii. A 5-Day Learning Technologies Workshop on the 21st Century Innovative Instructional Methods, Tools and Techniques organized by the African Centre of Excellence in Agricultural Development and Sustainable Environment (CEADESE), FUNAAB on 13th - 17th August, 2018.

- iii. A 2-Day Step-down Capacity Building Workshop for Departmental SIWES Coordinators, FPY Coordinators and College Representatives on Enhancing Work Integrated Education in Nigeria: The Scenario we have, the future we want, organized by the Directorate of Students Industrial Work Experience Scheme (SIWESS), FUNAAB, on 17th-18th July, 2018.
- iv. A 5-Day Training on Data Analysis for Research using SPSS 23 organized by the Advanced Digital Appreciation Programme for Tertiary Institutions (ADAPTI) on 9th – 13th July, 2018.
- v. A 1- Day Capacity Building Workshop for Librarians and Researchers in the University on the use of Science-Direct and Mendeley Database, Organized by the Centre of Excellence in Agricultural Development and Sustainable Environment (CEADESE), FUNAAB, in conjunction with the Nigerian Research and Education Network (NgREN) and Elsevier on Monday, 23rd April, 2018.
- vi. A step-down workshop on “Packaging R&D results and Inventions for the Market” Organized by the Institute of Food Security, Environmental Resources & Agricultural Research (IFSERAR, FUNAAB) in collaboration with the Intellectual Property Technology Transfer Office (IPTTO), FUNAAB, Abeokuta, (2012)
- vii. A 3-Day Mandatory Continuing Professional Education Course for prospective Corporate Members, organized by the Nigerian Society of Engineers (NSE) Head Quarters, Ibadan. (September, 2011)
- viii. A 2-Day Refresher Course for Prospective Corporate Members organized by the Nigerian Society of Engineers (NSE) Abeokuta Branch. (September, 2011)

06. COMMENDATION / APPRECIATION

- i. Vice-Chancellor’s Commendation Letter for diligence and display of high sense of responsibility which led to the success of the 23rd, 24th and 25th combined convocation ceremony. 2017
- ii. Vice-Chancellor’s Appreciation Letter for providing support services to members of the committee on palliative measure on the Camp / FUNAAB Road. 2017
- iii. Dean, College of Engineering Appreciation Letter for support, sacrifice and invaluable contribution towards the success of the Induction / Oath taking ceremony of the 2015/2016 Engineering Graduates. 2017

07. MEMBERSHIP OF PROFESSIONAL BODIES (With Dates)

- i. Member, International Association of Engineers (Reg. No: 127231) 2013
- ii. Registered Engineer, Council for Regulation of Engineering in Nigeria (COREN) Reg. No: R.22807 2012.
- iii. Corporate Member, Nigerian Society of Engineers (Reg. No: 26552). 2011
- iv. Professional Member, Materials Society of Nigeria (Reg. No: P/1120). 2011

08. RESEARCH INTEREST OR COMMISSIONED PROJECTS

- a. Research Completed (with dates)
 - i. Design and Fabrication of a low cost 1200°C Laboratory Electric Muffle Furnace (2019)
 - ii. Strength Characteristics of Cow bone ash-Kenaf Fiber-Palm kernel Shell Composite Brake Pad (2019)
 - iii. Effect of Kenaf Core Fibers (*Hibiscus cannabinus*) as one of the Dispersing Phases in Brake Pad Composite Production (2019)
 - iv. Development of metal matrix composite coatings by thermal spray on ASTM A36 mild steel for improved corrosion resistance performance (2018)
 - v. Effect of Kenaf Fibers on Low Density Fiber Board (Engineered wood) 2018
 - vi. Design, Fabrication and Performance Evaluation of a Low-cost Maize Shelling Machine (2017)
 - vii. Production of briquette using different materials: sawdust, cassava and corn cob (2017)
- b. Research in Progress
 - i. Strength Characterization of Polymers Reinforced with Palm Kernel Shell, Coconut husk and Bone Ash
 - ii. Corrosion Inhibition of 1082 Mild Steel with Lard oil in Alkaline Media
 - iii. Corrosion Inhibition of 1082 Mild Steel with Mango seed / Cashew nut oil in Alkaline Media
 - iv. Corrosion Inhibition of 1082 Mild Steel with Tallow oil in Alkaline Media

09. PUBLICATIONS

A. Articles Published in Learned Journals

- i. **Anyanwu B.U**, O.O. Oluwole, O.S.I. Fayomi, A.O. Olorunnisola, A.P.I. Popoola, S.I. Kuye (2021). Synthesis, corrosion and structural characterization of kenaf nanocellulose on Zn-ZnO-xC_n electrolytic coatings of mild steel for advanced applications. *Case Studies*

in Chemical and Environmental Engineering, 3: 1-5. Publication by Elsevier Ltd.
<https://doi.org/10.1016/j.cscee.2020.100017>

- ii. Kuye, Sidikat I.; Oyeniran, Timothy O.; Adekunle, Nurudeen O.; **Anyanwu, Benedict U.** and Olamide, Olalekan O (2021). Potential of *Manihot Esculenta* (Cassava) Peels for Electricity and Heat Co-Generation in Nigeria. *Nigerian Journal of Materials Science and Engineering*. 11(1): 14 - 19
- iii. O.S.I. Fayomi, A.A. Sode, **B.U. Anyanwu**, A.A. Ayoola, M.O. Nkiko, K.M. Oluwasegun, D.O. Alkhuele & D.E. Ighravwe (2021). Experimental studies and influence of process factor on zinc-nickel based coating on mild steel. *Advances in Materials and Processing Technologies*, Taylor and Francis. DOI: 10.1080/2374068X.2021.1896863
- iv. Salami .O. Ismaila, Olusegun .G. Akanbi, Sarah .O. Oderinu, **Benedict .U. Anyanwu**, Kamal .O. Alamu (2015). Design of Ergonomically Compliant Desks and Chairs for Primary Pupils in Ibadan, Nigeria. *Journal of Engineering Science and Technology*, 10 (1); 35-46. Published by the School of Engineering, Taylors University, Malaysia. ISSN: 1823-4690. <http://jestec.taylors.edu.my>
- v. Olokode O.S, P.O. Aiyedun, S.I. Kuye, **B.U. Anyanwu**, F.T. Owoeye, T.A. Adekoya, and J.N. Nwonah (2013). Optimization of the Quantity of Wood Ash Addition on Kaolinitic Clay Performance in Porcelain Stoneware Tiles. *The Pacific Journal of Science and Technology*, 14 (1): 48-56. Publication of Akamai University, USA. <http://www.akamaiuniversity.us/PJST.html>.
- vi. Olokode O.S, T. A. Adekoya, S.I. Kuye and **B.U. Anyanwu** (2013). Comparison between Kaolin and Quartzitic Clay performance in the Effect of Wood Ash Addition on the Mechanical and other Properties of Porcelainised Stoneware Tiles. *Journal of Natural Sciences, Engineering and Technology, JNSET*, 12: 108-118. Publication by the Federal University of Agriculture Abeokuta.
- vii. Owoeye F.T, O.S. Olokode, P.O. Aiyedun, S.I. Kuye, **B.U. Anyanwu**, H.O. Balogun and J.N. Nwonah (2013). Evaluation of the Efficiency of Ceramic Membrane Pots in Treatment

- of Food Beverages. *The Pacific Journal of Science and Technology*, 14(1): 89-97. Publication of Akamai University, USA. <http://www.akamaiuniversity.us/PJST.html>.
- viii. **Anyanwu B.U**, O.S. Olokode, P.O. Aiyedun, F.T. Owoeye and Y.T. Oyeleke (2012). Potentials of Ukwa Tree (*Sterculiasetigera*) as a source of Raw Material for Pulp and Paper Making. *The Pacific Journal of Science and Technology*, 13(1): 145-151. Publication of Akamai University, USA. <http://www.akamaiuniversity.us/PJST.htm>.
- ix. Olokode O.S, Fakolujo S.O, Aiyedun P.O, Lee W.E, **Anyanwu B.U**, Owoeye F.T (2012). Assessment of Ajebo Abeokuta kaolin clay deposit for potential porcelain stoneware tiles. *Journal of Natural Sciences, Engineering and Technology, JNSET*, 10(2): 90-98. Publication by the Federal University of Agriculture Abeokuta.
- x. Owoeye F.T, O.S. Olokode, P.O. Aiyedun, H.O. Balogun and **B.U. Anyanwu** (2012). Preparation and Characterization of Ceramic Microfiltration Membrane for Water Treatment. *The Pacific Journal of Science and Technology*, 13(2): 28-38. Publication of Akamai University, USA. <http://www.akamaiuniversity.us/PJST.html>.
- xi. Aiyedun P.O, O.S. Olokode, S.O. Fakolujo and **B.U. Anyanwu** (2012). An Evaluation of Strength Characteristics of Osiele Clay. *The Pacific Journal of Science and Technology*, 13(1): 78-82. Publication of Akamai University, USA. <http://www.akamaiuniversity.us/PJST.html>.
- xii. Olokode O.S, Fakolujo S.O, Aiyedun P.O, Jaji Z.O, Owoeye F.T, **Anyanwu B.U** (2012). Experimental Study on the Morphology of Keratin based material for asbestos free brake pad. *Journal of Basic & Applied Sciences*, 8 (2) 302-308. Publication by *SET Publishing*, Washington Crt, Brampton ON, Canada. ISSN: 1814-8085 / E – ISSN: 1927-5129/12. <https://setpublisher.com/downloads/jbasv8n2a08/>

B. Accepted Journals

- xiii. **Anyanwu B.U**, O.O. Oluwole, O.S.I. Fayomi, A.O. Olorunnisola, A. P. I. Popoola, S.I. Kuye. Processing and development of corrosion resistance surface-active thin film nanocellulose composite coatings for mild steel protection. *Protection of Metals and Physical Chemistry of Surfaces*. Name of Publisher: Springer Nature, Switzerland. Date of Acceptance: 4th May, 2021

C. Referred Conference Proceedings

- xiv. **Anyanwu B.U**; Adebomi O. A; O.S. Fayomi; S. I Kuye; U.T. Igba and O.O. Oluwole (2019). Effects of kenaf core and bast fibers as dispersing phases on low density fiberboards (engineered wood). *Journal of Physics: Conf. Series*. Vol. 1378, 022024. Lucy Evans (Eds.) Publication of IOP Publishing Ltd, Bristol, United Kingdom
Available online: doi:10.1088/1742-6596/1378/2/022024.
- xv. **Anyanwu B.U**; G.O. Olayinka; D.T. Ezeokeke; O.S. Fayomi; O.O. Oluwole (2019). Effect of Kenaf Core Fibre (*Hibiscus cannabinus*) as one of the Dispersing Phases in Brake Pad Composite Production. *Journal of Physics: Conf. Series*. Vol. 1378, 042046. Lucy Evans (Eds.) Publication of IOP Publishing Ltd, Bristol, United Kingdom
Available online: doi:10.1088/1742-6596/1378/4/042046
- xvi. Igba U.T, J.O Akinyele, S.O Ehikhuenmen, S.O Oyebisi, P.O Omotainse and **B.U Anyanwu (2019)**. A comparative study on the strength characteristics of Grade 25 and Grade 30 rice husk ash blended cement concrete. *Materials Science and Engineering, Conf. Series*. Vol. 640, 012042. Lucy Evans (Eds.). Publication of IOP Publishing Ltd, Bristol, United Kingdom. Available online: doi:10.1088/1757-899X/640/1/012042
- xvii. Fayomi O.S.I, K.O. Babaremu, I.G. Akande, O. Agboola, **B.U. Anyanwu (2021)**. Potential of bio-wastes in the development of composites for manufacturing application. *Materials Today: Proceedings*, 38 (5). pp. 2353-2357. Manoj Gupta, Paulo Davim (Eds). Publication by Elsevier Ltd.
Available online: <https://doi.org/10.1016/j.matpr.2020.06.539>.

- xviii. **Anyanwu B.U**, D.A Fadare, S.I. Kuye, O.R. Adetunji and P.O. Aiyedun (2018). Formulation of Selected Animal Fats and Vegetable Oils as Potential Metal Cutting Fluids- Part 1: Preliminary Characterization. *Proceedings of the International Conference of Mechanical Engineering, Energy Technology and Management (IMEETMCon)*, University of Ibadan, pp. 78-86. O.O Ajide (Eds).
- xix. **Anyanwu B.U**, Fadare D.A, Adeleke O.A, Olarinre B and Aiyedun P.O (2016). Formulation of Selected Animal Fats and Vegetable Oils as Potential Metal Cutting Fluids in Turning Operation- Part 2: Performance Evaluation. *Proceedings of the International Conference of Mechanical Engineering, Energy Technology and Management (IMEETMCon)*, University of Ibadan, pp. 54 – 69. O.E Simolowo (Eds).
- xx. Adeleke O.A., Fadare D.A., **Anyanwu B.U** and Olarinre B (2016). Evaluation of Energy and Carbon Emission Footprints in Metal Turning Operation. *Proceedings of the International Conference of Mechanical Engineering, Energy Technology and Management (IMEETMCon)*, University of Ibadan, pp.607 – 618. O.E Simolowo (Eds).

10. CONFERENCES ATTENDED (With dates)

- i. A 3- Day International Conference on Engineering for Sustainable World (ICESW-2020), organized by the Department of Mechanical Engineering Covenant University, Canaan Land, Ota, Nigeria, 10-14 August, 2020.
- ii. A 3- Day International Conference on Engineering for Sustainable World (ICESW-2019), organized by the Department of Mechanical Engineering Covenant University, Canaan Land, Ota, Nigeria, 3-8 July, 2018,
- iii. A 3- Day International Conference of Mechanical Engineering, Energy Technology and Management, Organized by the Department of Mechanical Engineering, University of Ibadan, Ibadan, Nigeria. September 7-9, 2018.
- iv. A 3- Day International Conference of Mechanical Engineering, Energy Technology and Management, Organized by the Department of Mechanical Engineering, University of Ibadan, Ibadan, Nigeria. September 4-7, 2016.

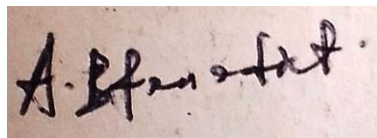
11. EXTRA CURRICULAR ACTIVITIES

- i. Playing Football
- ii. Reading
- iii. Walking

12. REFERENCES

- i. Prof. M.A. Waheed
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Federal University of Agriculture Abeokuta,
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- ii. Prof. B.O. Bolaji,
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Federal University Oye-Ekiti,
Ekiti State, Nigeria.
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- iii. Prof. O.O. Oluwole,
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Oyo State, Nigeria.
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Signature:



Date: 6th April, 2021.

Portrait Picture:

