

CYNTHIA CHIKODI DANIEL-MKPUME



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B.ENG. (METALLURGICAL & MATERIALS ENGINEERING)

M.ENG. (METALLURGICAL & MATERIALS ENGINEERING)

Department of Metallurgical and Materials Engineering
University of Nigeria, Nsukka Nigeria

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November 22, 1979

OBJECTIVES:

- To contribute effectively to innovative scientific research, equipment maintenance and development and facilitating maintenance culture in the university, Nsukka community, Enugu State, Nigeria and the world.
- To challenge vibrant minds for collaborative/ interdisciplinary research for optimum result.

QUALIFICATION:

2009 – Date	University of Nigeria, Nigeria, Doctor of Philosophy, Ph.D in view in Mechanical Engineering
2005 - 2009	Nnamdi Azikiwe University, Awka, Anambra State, Nigeria M.Eng (Chemical Metallurgy) in Metallurgical and Materials Engineering
1998 -2003	Nnamdi Azikiwe University, Awka, Anambra State, Nigeria B.Eng (2nd Class Upper Division) in Metallurgical and Materials Engineering
1990 - 1995	Government Secondary School Laranto, Jos, Plateau State, Nigeria. Senior School Certificate (WAECSSC)

RESEARCH INTEREST: Chemical Metallurgy, Thin Films as Corrosion Protection Materials, Mineral Processing, Extraction and Refining of Metals, Metallography and internal features of Materials, Service Properties of Materials, Composite Materials, Refractories Development, Ceramic Engineering, Beneficiation Aluminosilicate-based clays and Nano-Engineering.

POSTGRADUATE WORK EXPERIENCE:

2009 – Date Lecturer II in the Department of Metallurgical and Materials Engineering, University of Nigeria, Nsukka, Enugu State, Nigeria

Job Description:

- Lecturing Materials Science, Mineral Processing, Extractive Metallurgy and Ceramic Engineering
- Research and supervision of students' projects
- Students' Academic Adviser for 2010 Set
- NAMMES Staff Adviser
- Departmental Examination Officer for 2007 Set

2007- 2009 Graduate Assistant in the Department of Metallurgical and Materials Engineering, University of Nigeria, Nsukka, Enugu State, Nigeria

2005-2007 Organized voluntary lecture sessions for year three and year four students of Metallurgical and Materials Engineering, Nnamdi Azikiwe University, Awka on Extraction and Refining of Metals (2006/2007 session).

2004-2005 Government Secondary School, Kagoro, Kaura, Kaduna State. (NYSC)

Experience:

- Teaching senior secondary school students mathematics
- Developing young minds to match their contemporaries in all ramifications via enlightenment seminars

UNDERGRADUATE WORK EXPERIENCE:

2002 National Metallurgical Development Centre (N.M.D.C.) Zaria Road, Jos. (Six Months Industrial Training)

Experience:

- Human Management
- Developing improvised methods
- Equipment Management and Maintenance
- Metallography
- Mechanical Testing of Materials
- Corrosion Engineering
- Foundry Engineering
- Refractories and Ceramic Engineering

RESEARCH:

2009 Development of Alumino-silicate Refractories using some Nigerian Clay Deposits (M.Eng. Thesis)

2004 Investigation into the Refractory Properties of Ogulogu-Olo Clay (B.Eng. project Nnamdi Azikiwe University)

SOCIETY MEMBERSHIP: Nigerian Society of Engineers Metallurgical, Mining and Materials Division (0081), Nigerian Metallurgical Society (**C592**)

PUBLICATIONS:

1. P. O. Offor, B. A. Okorie, F. I. Ezema, V. S. Aigbodion, C. C. Daniel-Mkpume and A. D. Omah (2015): Synthesis and Characterization of Nanocrystalline Zinc Sulphide Thin Films by Chemical Spray Pyrolysis, *Journal of Alloys and Compounds*, 650, pp. 381 – 385
2. Offor P.O, **C .C. Daniel** and B.A. Okorie, 2011. “The Effects of Intercritical Heat Treatments On The Mechanical Properties of 0.14wt%C - 0.56wt%Mn - 0.13wt%Si Structural Steel”, *Nigerian Journal of Technology*, 30 (3): 29 – 34.
3. Offor, P.O, **C .C. Daniel**, S.I. Neife, and N.E. Idenyi, 2011. “Mechanical Properties Of 0.15 Wt%C - 0.37 Wt%Mn - 0.24 Wt%Si Steel Quenched To Room Temperature After Single Phase Austenitization”, *Nigerian Journal of Technology*, 30 (3): 35 – 40.
4. Offor P. O., **Daniel-Mkpume, C. C.** and Obikwelu D. O. N., 2011. “Tensile Properties of Intercritically Normalized 0.14 wt%C Structural Steel” *Journal of Metallurgy & Materials Engineering*. 6(2): 44-48.
5. **Daniel-Mkpume, C. C.**, Offor, P. O., Obiorah, S. M. O., Neife, S.I. & Mkpume, K.N., 2011, “Comparative Studies on the Viability of some Nigerian Clays for Refractories Production.” *Journal of Metallurgy & Materials Engineering*. 6(1): 8-15.
6. **Daniel, C. C.**, Offor P. O. and Obiorah, S. M. 2011. “Blending of Nsu and Ibeku Clays: A Solution Towards The Replacement Of GP 107-3 Refractory Brick in the Metallurgical Industry” *Nigeria Journal of Technology*. 30(2): 67-72.
7. Offor P. O., **C. C. Daniel** and D. O. N. Obikwelu. 2010. “Mechanical Properties of the Intercritically Annealed 0.15wt%C - 0.32wt% Mn steel and Quenched in SAE Engine Oil at Room Temperature.” *Nigerian Journal of Technology*. 29(2): 32-37.
8. Offor P. O., **C. C. Daniel** and D. O. N. Obikwelu. 2010. “Effects of Various Quenching Media on the Mechanical Properties of Intercritically Annealed 0.15wt%C – 0.43wt% Mn Steel” *Nigeria Journal of Technology*. 29(2): 76-81.
9. **Daniel, C. C.**, Nnuka, E. E., Obiorah, S. M. O. & Offor, P. O., 2010, “Industrial Potential of Ibeku Clay Deposit for Aluminosilicate Refractories Production.” *Journal of Metallurgy & Materials Engineering*. 5(1): 20-24.

IVB. CONFERENCES AND LEARNED SOCIETY ACTIVITIES

- (a) Attendance at conference/workshops

1. Obiorah, S. O., Odo, J. U. & **Daniel, C. C.**, Characterization of Ogulogu-Olo Clay Deposit for Industrial Application, 2nd International Conference on Engineering Research and Development Innovations (ICER&2008161), Benin City, 2007.

(c) **Professional Reviews of Papers for Reputable Journals**

TITLE OF PAPERS REVIEWED

JOURNAL

DATE

1. “Effects of Sintering Temperature on the Density and Porosity of Sodium Chloride preforms for open celled aluminium foam manufacturing”, **NIJOTECH, 2012.**
2. “Evaluation of Corrosion Effect of Local Lead-Tin (Pb-Sn) Solders used in Automobile Radiators”, **NIJOTECH, 2012.**
3. “ Effect of Fiber Length on the Physical and Mechanical Properties of Random Oriented Short Banana Fibre /Epoxy Composite”, **NIJOTECH, 2012.**

Conference Papers

- Obiorah, S. O., Odo, J. U. & Daniel, C. C., Characterization of Ogulogu-Olo Clay Deposit for Industrial Application, 2nd International Conference on Engineering Research and Development Innovations (ICER&2008161), Benin City, 2007.

REFEREES:

1. Prof. D.O. Onyejekwe
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University of Nigeria, Nsukka, Nigeria
2. Prof. E.E. Nnuka
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3. Prof. D.O.N. Obikwelu
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4. Engr. S.M. Obiorah
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