ING. PROF. PRINCE YAW ANDOH

E-Mail:	pyandoh.coe@gmail.com; pyandoh.coe@knust.edu.gh
Phone #:	024-223-5674; 020-096-0067
Contact Address:	College of Engineering KNUST, Kumasi
Marital Status:	Married with three (3) children
Date of Birth:	15th December, 1964

AREA OF RESEARCH: Prediction and Control of Machining–induced Damage of composite Laminates.

CERTIFICATES: Ordinary level in Science, Advance Level in Science, BSc (Engineering), MSc (Mechanical Engineering) and PhD (Mechanical Engineering)

ACADEMIC BACKGROUND

University of Science and Technology-Kumasi, Ghana
1991 Bachelor of Science in Agricultural Engineering.
Honors: Second Class, Upper Division

North Carolina A&T State University- Greensboro, USA

2001 Master of Science in Mechanical Engineering

North Carolina A&T State University- Greensboro, USA

2005 Doctor of Philosophy in Mechanical Engineering

TEACHING and RESEARCH INTERESTS:

1. My interest in teaching undergraduate and postgraduate courses in Mechanical Engineering includes Design, Manufacturing and Applied Mechanics. My expertise covers a broad range of teaching of undergraduate courses in Mechanical Engineering including Basic Mechanics, Strength of Materials, Design of Machine Elements, Design Projects, Introduction to Finite Element Methods, Introduction to CAD-CAM, Facility Design and postgraduate courses in Mechanical Engineering such as Finite Element Analysis, Solid Modeling, Advanced Manufacturing Process, Stress Analysis and Dynamics.

2. My primary research interests include modeling, identification and control of mechanical and manufacturing systems, tribology of manufactured surfaces, and integration of design and manufacturing. Also to develop a methodology for constructing low cost small scale wind turbines using low cost materials consisting of recycled plastics and bamboo or coconut fiber reinforcement for rural communities and developing countries. Specifically, my work has included:

   i. The development of quantitative parameter for characterization, a model for prediction and control of delamination area for composite laminates, 2001 to date.

ii. The development of factorial design for the planning, conducting, analyzing and interpreting experiments so that a sound and valid conclusions can be drawn efficiently, and economically, 2003 to date

iii. The development of factorial design for the planning, conducting, analyzing and interpreting experiments so that a sound and valid conclusions can be drawn efficiently, and economically, 2003 to date

iv. Designing a facility layout for small scale palm oil processing factory, 2008 to date C. Characterization of recycled plastics for structural applications and Ghanaian bamboo species/coconut fiber, 2014 to date

v. Development of composite material consisting of recycled plastics matrix with bamboo/coconut fiber reinforcement, 2014 to date

vi. Construction, testing, monitoring production and structural integrity of low cost wind turbines using bamboo or coconut fiber reinforced recycled plastic blades and wood or scrap metal gearing, 2014 to date

vii. Evaluation and development of biomechanical model analysis of Ramp-Induced vibration exposure level for a pregnant woman and gravid human uterus commuting along roads In Ghana, 2016 to date

PROFESSIONAL EXPERIENCE

1. Professor: Kwame Nkrumah University of Science and Technology, Kumasi, August, 2023 to Date

2. Associate Professor: Kwame Nkrumah University of Science and Technology, Kumasi, August, 2016 to July 2023

3. Senior Lecturer: Kwame Nkrumah University of Science and Technology, Kumasi, October, 2011 to July, 2016

4. Adjunct Lecturer: Mechanical Engineering Department, School of the Engineering, Kumasi Polytechnic, September, 2007 to June, 2009

5. Lecturer: Kwame Nkrumah University of Science and Technology, Kumasi, September, 2005 to September, 2011

6. Graduate Teaching & Research Assistant: North Carolina A&T State University, September, 1999 to May, 2005

7. Mathematics Tutor (Senior Superintendent): Kaneshi Secondary Technical School, Kaneshi, January, 1997 to August, 1999

8. Science/Mathematics Tutor (Superintendent): Juabeso Senior Secondary School, Juabeso, November, 1992 to December, 1996

9. Maintenance/Workshop Engineer Ministry of Food and Agriculture, Sekondi, Ghana, November, 1991 to August, 1992

10. Mathematics Tutor: Sefwi Wiawso Secondary School, Wiawso, November, 1986 to July, 1987

RESPONSIBLITIES AND POSITIONS HELD

(a) Ghana Education Service, Second Cycle

I have taught in Juabeso Senior Secondary School, Juabeso (1992 to 1996) and Kaneshi Secondary Technical School, Kaneshi (1997 to 1999), for the past seven years. My expertise covers a broad range of teaching of science subjects including Mathematics, Physics and Chemistry.

I have also served on the following positions in the Juabeso Senior Secondary School, Juabeso and Kaneshi Secondary Technical School, Kaneshi at various periods:

i. Head, Science Department, Juabeso Senior Secondary School, Juabeso, April, 1993 to December, 1996

ii. Senior House Master, Kaneshi Secondary Technical School, Kaneshi, August, 1998 to June, 1999

(b) University

I have taught in Mechanical Engineering Department, College of the Engineering, Kwame Nkrumah University of Science & Technology from September 2005 to date. My expertise covers a broad range of teaching of undergraduate courses in Mechanical Engineering including Basic Mechanics, Strength of Materials, Machine Elements Design, Finite Element Methods, Aerospace Structures and Materials, Quality Control, Assurance and Selection and CAD-CAM, as well as the Mechanical Engineering Laboratory Experiments including Strength of Materials Experiments and Technical Preparation Experiments and graduate courses in Mechanical Engineering such as Finite Element Analysis, Solid Modeling, Advanced Manufacturing Process, Stress Analysis, Quality Assurance and Dynamics. I served as Academic Tutor since 2005.

Much of the period from my appointment to date has been devoted to excellence in research and lecturing. I readily accept duties and deliver according to the best of my ability. My research and teaching activities produce some benefits to the university.

I have served as the Transport Engineer of the University from March, 2008 to October, 2010. I have overseen the day-to-day administration of the Transport Department and also coordinated the work of the sections within the department with assistance from the sectional heads in the execution of my duties. I have sought permission from the Vice Chancellor through the Registrar to employ drivers and mechanics and also transferred drivers from or to colleges and units within the university. I also controlled all the university vehicles and power to re-allocate the vehicles to colleges, faculties,

departments and units through the approval from the Vice Chancellor. I have served as technical advice on selection and purchasing of University vehicles and vehicle parts.

I have served as a representative (as a Transport Engineer) from the Transport Department on the following board and committees:

i. Board Member, KNUST Welfare Services Board

ii. Committee Member, Transport Organization Management Committee, KNUST, Kumasi

iii. Committee Member, Security Services Management Committee, KNUST, Kumasi

iv. Committee Member, Congregation Planning Committee, KNUST, Kumasi

v. Committee, Member, Sub-committee to review the Guidelines and policy for the use and maintenance of the university vehicles

vi. Committee member, to investigate alleged stolen Toyota Hilux pick up belonging to Engineering Guest house.

I have been the lecturer-in –charge of organizing vacation training for students at the department of Mechanical Engineering of the College of Engineering from November 2007 to July 2014. On accepting this assignment, I have organized eight-week industrial attachment of manufacturing plants for the Mechanical Engineering students every year.

I have been the lecturer-in –charge of organizing vacation training for students at the College of Engineering from April 2015 to July 2017 and re-appointed from 2019 to 2021. On accepting this assignment, I have organized eight-week supervised industrial attachment in manufacturing plants for the Engineering students in the College every year.

I have served as a college representative (College of Engineering) to the Central Undergraduate Admissions Committee, September 2015 to 2018.

I have also served on the following positions in the department of Mechanical Engineering and the College of Engineering at various periods

i. Departmental Field Trip organizer November 2012 to July 2014.

ii. Departmental Vacation Training Coordinator, November 2007 to July 2014.

iii. Sectional Head, Applied Mechanics and Automobile, August, 2012 to July 2017

iv. Departmental Postgraduate Coordinator, August 2015 to 2017.

v. College Internship Coordinator, April 2015 to July 2017.

vi. Head, Department of Mechanical Engineering, August 2017 to July 2018

vii. College Industrial Liaison Officer/ Internship Coordinator, August 2019 to December 2021.

viii. Head, Department of Mechanical Engineering, January 2022 to Date

I have served as a committee chairman in the Department of Mechanical Engineering and the College of Engineering on the following boards/committee at various periods:

1. Committee to discuss future directions of the Mechanical Engineering top up programme, December 2013

2. Committee to draw up modalities for use and renting out of Mechanical Engineering Department's new minibus, December 2013.

3. Research committee to study a map out strategies for effective research activities within the department, October 2014.

4. College Transport Committee to provide for an effective management of the fleet of vehicles in the college, January 2015.

5. College Vacation Training Committee, April, 2015 to date.

6. Departmental Select Committee to study the application and provide a written report on your appointment as an Assistant Lecturer; May, 2016.

7. College of Engineering Welfare Scheme Committee, September 2017

8. College Vacation Training Committee, April 2019 to December 2021.

9. Committee to determine the fee for MPhil Mechanical Engineering Top-Up programme, June 2020

10. Committee to review BSc Mechanical Engineering and BSc Mechanical Engineering Top-Up programme, June 2020

11. Committee to interview postgraduate applicants for the 2020/2021 academic year, August 2020

12. College Construction Project Committee, October 2020 to date

I have served as a committee member in the Department of Mechanical Engineering, College of Engineering and the University on the following boards/committee at various periods:

1. Board member, College of Engineering Board, KNUST, Kumasi, 2006-2008

2. Board member, Faculty of Mechanical and Agricultural Engineering Board, KNUST, Kumasi, 2006-2008

3. Committee to investigate alleged examination malpractice in first semester examination, 2006/2007 academic year

4. College Career Fair committee to successfully organize the 2012 Career Fair, January 2012.

5. Committee to consider off-loading of certain service courses from Mechanical to Materials and Agricultural Engineering Departments, January 2014.

6. Committee to review Fifteen- Month Masters Programme in Marine Engineering and Mechanical handling, January 2015.

7. Committee to prepare the Department's programmes for accreditation, September 2015.

8. Departmental Select Committee to review the transcript of students and recommend candidates for placement or otherwise in the Department, March, 2015.

9. Departmental Select Committee to study the application and provide a written report on your appointment as an Assistant Lecturer; February 2015.

10. Members of the Department Budget Committee to prepare and monitor Departmental operational budget for the Department of Mechanical Engineering, KNUST., November 2016

11. Committee to interview to assess the qualification and experience of an applicant to be appointed for the position of Senior Lecturer, October 2018.

12. Committee to investigate allegations of misconduct against students on three committees, February 2019 and March 2019

13. Committee to review MPhil Mechanical Engineering and MSc Mechanical Engineering (IDL) programme, June 2020

14. College Awards and Career Fair Planning Committee, June 2021

15. Committee to develop a curriculum for MSc/MPhil Welding Engineering at the College of Engineering, July 2020

16. Committee to enhance the capabilities of the solar energy applications laboratory for testing products to standards, September 2020

(c) National

I have moderated examination questions for the Mechanical Engineering Department, School of the Engineering, Kumasi Polytechnic, (2011). The courses include the following: Manufacturing Technology, Mechanics of Machines, Installation and Maintenance, Material Technology, Strength of Materials Machine Design, Instrumentation and Measurement, Metrology, Production Planning and Control and Instrumentation and Control

I have moderated examination questions for the NAPTEC, (2012). The courses include the following: Manufacturing Technology, Mechanics of Machines, Installation and Maintenance, Material Technology, Strength of Materials Machine Design, Instrumentation and Measurement, Metrology, Production Planning and Control and Instrumentation and Control.

I have also served in the following capacities

1. Moderator of Examinations for NABTEX, 2010 to 2012.

2. Moderator of Examinations for All Nations University College, 2013 to date.

3. External Assessor, Appointments/Promotion Board, University of Education, Winneba, September, 2013.

4. Research Reviewer, Journal of Science and Technology (JUST), 2014 to date.

I have served as External Examiner, Department of Mechanical and Electrical Technology, University of Education, Winneba, January, 2015 to date and Assistant Examiner, West Africa Examination Council, November, (WAEC), 2015 to date.

I have also served as member of the Automotive Industry Working Group to review the Automotive Industry Concept Note and Policy Road Map, March, 2016 to date.

I have also served as a panel member in the Assessment of B. Sc. Mechanical Engineering Programme at Ashesi University College, Berekuso, Eastern Region in their application charter.

I have also served as External Assessor and Moderator for the following Universities

1. Department of Mechanical Engineering, Kumasi Technical University Kumasi, February 2017 to date.

2. Department of Mechanical and Automotive Technology Education, University of Education, Winneba, Kumasi Campus, Kumasi, 2020 to 2022

I have also served as External Assessor for the promotion of Senior Members in different Universities

I have also served as a panel chair in the Assessment of Mechanical Engineering Programme in different Universities.

I have also served as a panel member in the Assessment of Mechanical Engineering Programme in e different Universities.

RESEARCH WORKS

i. The Study of Environmental Implication on Annum Valley Irrigation Project-Final Year Project (July 1991).

ii. Development of A Quantitative Parameter for Non-Destructive Evaluation of Laminated Composite Parts -Master's Thesis (December 2001).

iii. Monitoring and Control of Delamination in the Drilling of Carbon/Epoxy Composite Laminates-Doctoral Dissertation (May, 2005)

PUBLICATION ARISING OUT OF RESEARCH

1. Godwin Kafui Ayetor, Frank Kwabena Nyarko & Prince Yaw Andoh, 2024, Achieving Cost Parity for Battery Electric Vehicles in Africa: a case study of *Ghana*, The International Journal of Transportation Research Vol 16, Issue 2 (2024) Pages 144-156, Received 03 Oct 2022, Accepted 10 Jan 2023, Published online: 15 Jan 2023

2. Francis Davis, Prince Yaw Andoh, Yesuenyeagbe A. K Fiagbe & Albert Kweku Atsu, 2023, Optimization of gas tungsten arc welding parameters for welding of super duplex stainless steel using factorial design**,** Cogent Engineering, Volume 10, 2023 -Issue 1, Article: 2216870, Received 13 Jan 2023, Accepted 06 May 2023, Published online: 15 Jun 2023. https://doi.org/10.1080/23311916.2023.2216870

3. Joseph Nyumutsu, Anthony Agyei-Agyemang, Prince Yaw Andoh, Peter Oppong Tawiah, & Benjamin Atribawuni Asaaga The Potential of Sawdust and Coconut Fiber as Sound reduction Materials, Journal of Applied Engineering and Technological Science Vol 4(2) 2023: 734-742 734 2345, Received: 04 June 2022, Revised: 02 February 2023, Accepted : 05 February 2023

4. Tettehfio, E. O., Setiawan, A., Kustiawan, I., & Andoh, P. Y. (2023). Exploring disruptive power: Acceptance of digital technologies in mechanical engineering education among Ghanaian technical university teachers. *Journal Pendidikan Vokasi*, *13*(3), 223-231. https://doi.org/10.21831/jpv.v13i3.63606

5. **P. Y. Andoh,** C. K. K. Sekyere, K. O. Amoabeng, and D. E. K. Dzebre, 2022**,** Performance Assessment of a Solar Powered Egg Incubator with a Backup Heater, Al-Qadisiyah Journal for Engineering Sciences, Vol.15(2) 2022 113–121

6. **P.Y., Andoh,** F Davis, and G Adablah, 2022, Selection of Optimum Pouring Conditions for Improvement of Aluminum Alloy Castings in Ghana, Journal of Science and Technology, Vol. 41, No. 2 (2022), pp 1 – 17

7. **P. Y. Andoh,** L. D. Mensah, D. E. K. Dzebre, K. O. Amoabeng, C. K. K. Sekyere**, 2022,** Investigating the Failure of Leaf Springs in Automobile Suspension on Ghana Road**,** Journal of Applied Engineering and Technological Science, Vol 4(1) 2022: 1-15**,** Received: 28 November 2021, Received 16 April 2022, Revised: 08 June 2022, Accepted: 08 June 2022

8. **P. Y. Andoh, K. O.** Amobeng, C. K. K. Sekyere, and D. E. K. Dzebre**,** 2022**,** Performance Analysis of a Mechanical System to Break and Separate Palm Nut-Fibre **Cake**, Journal of Applied Engineering and Technological Science, Vol 4(1) 2022: 24-31**,** Received: 16 April 2022, Revised: 08 June 2022, Accepted: 28 June 2022

9. **P. Y. Andoh,** G. K. K. Ayetor, K. O. Amoabeng, M. N. Sackey, 2022, Assessment of Automobile Engines Rebuilt At Local Artisan Workshops In Ghana, Journal of Applied Engineering and Technological Science, Vol 3(2)

10. 2022: 53-66, Received: 28 November 2022, Revised: 10 May 2021, Accepted: 11 June 2022

11. **P. Y. Andoh**, C. K. K. Sekyere, L. D. Mensah and D. E.K. Dzebre, 2021, Forecasting Electricity Demand In Ghana with the Sarima Model, Journal of Applied Engineering and Technological Science, Vol 3(1) 2021: 1-9, Received: 27 October 2021, Revised: 04 December 2021, Accepted: 16 December 2021

12. **P. Y. Andoh**, E. O. A. Acheampong, A. Agyei-Agyemang and P. O. Tawiah, 2021, Optimizing the Weight Clogged of a Vibrating Screen during Miming Operation, Journal of Science and Technology, Vol. 39, Nos. 1 & 2 (2021), pp10 -23, http://dx.doi.Org/ l 0.4314/just.v39i1.2

13. **P. Y. Andoh**, A. Agyei-Agyemang, P. O. Tawiah, C. K. K. Sekyere, and C. M. Asante, 2021, Development of Composite Material for Wind Turbine Blades, Journal of Applied Engineering and Technological Science, Vol 2(2) 2021: 139-150, Received: 01 April 2021, Revised: 09 June 2021, Accepted: 09 June 2021

14. **P. Y. Andoh,** C. K. K. Sekyere, G. K. K. Ayetor, M. N. Sackey, 2021, Fabrication and Testing of a Low-Cost Wind Turbine Blade using Bamboo Reinforced Recycled Plastic, Journal of Applied Engineering and Technological Science, Vol 2(2) 2021: 125-138, Received: 01 April 2021, Revised: 09 June 2021, Accepted: 09 June 2021

15. G.K. Ayetor, Innocent Mbonigaba, M.N. Sackey and **P.Y. Andoh**, 2021, Vehicle regulations in Africa: Impact on used vehicle import and new vehicle sales, Transportation Research Interdisciplinary Perspectives 10 (2021) 100384, Contents lists available at ScienceDirect, journal homepage: www.elsevier.com/locate/trip

16. Akowuah, E., Ampofo, J. and **Andoh, P. Y**., 2019, Evaluation of Ramp Induced Vibration Exposure Level for a Pregnant Woman Commuting along Urban Roads in Ghana, African Journal of Applied Research, Vol. 5, No. 1 (2019), pp. 60-73, http://www.ajaronline.com, http://doi.org/10.26437/ajar.05.01.2019.05, ISSN: 2408-7920

17. Akowuah, E., **Andoh, P. Y**. and Ampofo, J, 2019, Development of Biomechanical Model and FEA Modal Analysis Of The Gravid Human Uterus Exposed To Ramp-Induced Vibration, African Journal of Applied Research, Vol. 5, No. 1 (2019), pp. 46-59, http://www.ajaronline.com, http://doi.org/10.26437/ajar.05.01.2019.04, ISSN: 2408-7920

18. M. K. Boadu, **P. Y. Andoh**, A. Agyei-Agyemang and P. O. Tawiah, 2017, Model for the Prediction and Optimization of Flaws and Material Removal Rate during Machining of Shafts in Ghana, Journal of Science and Technology, Vol. 37, No. 3 (2017), pp32 -45, http://dx.doi.Org/ l 0.4314/just.v37i3.4

19. Larbie, A.T., **Andoh, P.Y**., and Ampofo J., 2017, An Evaluation of the Impact of Public-Private Partnership on Vehicle Inspection in the Greater Accra Region of Ghana, African Journal of Applied Research, Vol. 3, No. 2 (2017), pp. 44-57, http://www.ajaronline.com, http://doi.org/10.26437/ajar.03.02.2017.04, ISSN: 2408-7920

20. Braimah, S. R., Kukurah, J.D., and **Andoh, P. Y.,** 2017, Optimization of Lemon Grass Oil Extraction Process using Factorial Design Technique, African Journal of Applied Research, Vol. 3, No. 1 (2017), pp. 95-105, http://www.ajaronline.com, ISSN: 2408-7920

21. Tawiah, P. O., **Andoh P. Y.**, Agyei-Agyemang A., "Characterization of Recycled Plastics for Structural Applications ", International Journal of Science and Technology, June, 2016 Vol. 5(6), pp. 259-267, ISSN 2049-7318

22. **Andoh P. Y.,** Tawiah, P. O., Agyei-Agyemang A. "Characterization of the Mechanical Properties of Ghanaian Bamboo for Structural Applications ",

23. International Journal of Science and Technology, May, 2016 Vol. 5(5), pp. 228241, ISSN 2049-7318

24. Akowuah, E., and **Andoh, P. Y**., "Effect of Speed Ramps on Fire Tender and Service Delivery: A Case Study of the Central Region, Ghana", African Journal of Applied Research (AJAR), www.ajaronline.com, March 2016, Vol.3(3), pp 69-81 ISSN 2408-7920

25. Braimah, S. R., **Andoh, P. Y**., Tawiah, P. O., "Designing a Mechanical System that will be used to Extract and Separate Lemon Grass Oil", International Journal of Science and Technology, March, 2016 Vol. 5(3), pp. 1-11, ISSN 2049-7318

26. Akowuah, E., Ampofo, J., **Andoh, P. Y**, "Effect of Speed Ramps on Pregnant Women: Case Study along Kumasi-Cape Coast Road", African Journal of Applied Research (AJAR) www.ajaroniline.com, (October 2015), Vol.2(2), pp 19-30, ISSN 2408-7920

27. F. Davis, **P. Y. Andoh**, M.N. Sackey, S. P. Owusu-Ofori, "Assessment of Friction Between a Rolling Cylindrical Element and a Deformable Flat Surface", Journal of Science and Technology, August, 2014, Vol., 34(2), pp. 26-34

28. Agyei-Agyemang, G.Y. Obeng, **P.Y. Andoh,** "Experimental Evaluation of the Attenuation Effect of a Passive Damper on a Road vehicle bumper", World Journal of Engineering and Technology, August, 2014, Vol., 2, pp. 192-200, Published Online August 2014 in SciRes. http://www.scrip.org/journal/wjet; http://dx.doi.org/10.4236/wjet.2014.23021

29. T. Alhassan, **P. Y. Andoh,** P. Owusu-Ansah and J. A. Frimpong, "Relationship between Vehicle Manufacturers Recommended Tyre Pressure and Tyre Pressure Used by Vehicle Owners" Research Journal of Applied Sciences, Engineering and Technology, March, 2014, Vol. 7(12): pp. 2496-2501, ISSN: 2040-7459; e-ISSN: 2040-7467 © Maxwell Scientific Organization, 2014

30. **P.Y. Andoh**, F. Davis and Y.A.K. Fiagbe, "Monitoring Of Carbon Dioxide Production in a Carbonated Beverage Company using Factorial Design Technique", International Journal of Scientific & Technology Research, October 2013, Vol. 2, Issue 10, pp. 13-19, ISSN 2277-8616

31. **P.Y. Andoh,** Y.A.K. Fiagbe, F. Davis, S. Asaana, "A Mathematical Model To Predict The Quantity Of Defective Bottles In An Automated Bottle Washer Using Factorial Design Technique", International Journal of Scientific & Technology Research, October 2013, Vol. 2, Issue 10, pp. 56-62, ISSN 22778616

32. **P.Y. Andoh**, F. Davis, Y.A.K. Fiagbe, T. Alhassan, "Tyre Pressure Model for Predicting Fuel Consumption of Vehicles on Ghana Roads ", International Journal of Scientific & Technology Research, September 2013, Vol. 2, Issue 9, pp120-124, ISSN 2277-8616

33. S. D. Oduro, T. Alhassan, P. Owusu-Ansah and **P. Y Andoh,** "A Mathematical Model for Predicting the Effects of Tyre Pressure on Fuel Consumption", Research Journal of Applied Sciences, Engineering and Technology June, 2013, Vol. 6(1): pp. 123-129, ISSN: 2040-7459; e-ISSN: 2040-7467© Maxwell Scientific Organization, 2013

34. **P. Y. Andoh**, F. Davis, J. Antonio, "Prediction of a Delamination Area During Drilling of Carbon Composite Laminates Structures", Journal of Science and Technology, August, 2011, vol. 31, no. 2, pp.120 – 134.

35. **P. Y., Andoh**, W. A., Agyare, J Dadzie, Selection of an Ideal Mesh Size for the Cracking Unit of a Palm Kernel Processing Plant, Journal of Science and Technology, December, 2010, vol. 30, no. 3, pp.109 – 118.

36. **P. Y. Andoh**, F. Davis, S. Owusu-Ofori, "Development of a Control Strategy for Monitoring the Delaminating Damage in Drilling of Carbon Composite Laminates", Journal of Science and Technology August, 2010, vol. 30, no. 2, pp. 142-156

37. **P. Y. Andoh**, F. Davis, J. Antonio, "Effect of Cutting Parameters on Acoustic Emission Signal Response during Drilling of Laminated Composites", Journal of Science and Technology, December, 2007, vol. 3, no. 27, pp.98 – 106.

38. F. Davis, S. P. Owusu-Ofori, **P. Y Andoh**, L.E. Ansong, "Quasi-Automatic Monitoring System for Turning Operation Using Acoustic Emission Signal Response and Factorial Design Method", Journal of Science and Technology, December, 2007, vol. 3, no. 27, pp.107 – 121.

39. **P. Y. Andoh**, and S.P. Owusu-Ofori, "A Quantitative Parameter for Non Destructive Evaluation of Drilled Laminated Composite Parts", Transaction of North America Manufacturing Research Institution of SME, Charlotte, June, 2004.

-Conferences

i. S. M. Sackey, **P. Y. Andoh,** F. Davis, S. P. Owusu-Ofori", An Overview of Practical Statistical Methods for Evaluating Quality Characteristics", 7th College of Engineering Research Retreat (CERR 7), Koforidua, eastern Region, Ghana July 21-24, 2009, pp. 21-26.

ii. S. P. Owusu-Ofori, F. Davis, **P. Y. Andoh**, S. M. Sackey, "Time Series Models for Dynamic Analysis of Product Quality", 7th College of Engineering Research Retreat (CERR 7), Koforidua, Eastern Region, Ghana July 21-24, 2009, pp. 1420.

iii. F. Davis and **P. Y. Andoh**, "Effects of Turning Variables on Acoustic Emission's Energy Response using Factorial Design Method", 7th College of Engineering Research Retreat (CERR 7), Koforidua, Eastern Region, Ghana July 21-24, 2009, pp. 1-13.

iv. **P. Y. Andoh**, S.P. Owusu-Ofori, J. Sankar, "Acoustic Emission Measurements to determine the Effects of Boundary Conditions on Drilling of Polymeric Composites", ICCE/10, New Orleans, July 2003, pp 849-850.

v. **P. Y. Andoh**, S.P. Owusu-Ofori, J. Sankar, "A Parameter for Characterization of changes in Structural Integrity of Composite Laminates", ICCE/9, San Diego, July 2002, pp. 25-26.

vi. **P. Y. Andoh,** "The Importance and Strategic Method of Irrigation in Ghana", submitted to Ministry of Food and Agricultural in February 1992

REFERENCE

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Dr. Jerome Antonio, Mechanical Engineering Department
Kwame Nkrumah University of Science and Technology, Private Mail Bag, Kumasi