



Curriculum Vitae

Faculty Name: Paul Orleans Biney **Work Address:** P.O. Box 519; MS 2525
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Position Title: Professor

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| Education: | Degree and Area of Study | Institution Name | Degree Date |
|------------|------------------------------|--------------------------------------|--------------|
| | Ph.D. Mechanical Engineering | University of Houston | August, 1987 |
| | M.S. Mechanical Engineering | Oklahoma State University | May, 1980 |
| | B.Sc. Mechanical Engineering | University of Science and Technology | May, 1976 |

| Teaching Experience | Position Title | Institution Name | Position Dates (Beginning and End) |
|---------------------|---|--|------------------------------------|
| | Professor, Mechanical Engineering Department Director of FAST Center & Associate Director of CFD Institute | Prairie View A&M University | 2003– <i>present</i> |
| | Department Head | Prairie View A&M University | 1995– <i>present</i> |
| | Associate Professor | Mechanical Engineering Dept, Prairie View A&M University | 1994-1997 |
| | Assistant Professor | Mechanical Engineering Dept, Prairie View A&M University | 1991-1993 |
| | Assistant Professor | Mechanical Engineering Dept, Prairie View A&M University | 1987-1991 |
| | Visiting lecturer | Mechanical Engineering Dept, Prairie View A&M University | 1984-1987 |

Professional Publications:

1. "Experimental and Theoretical Investigation of Ignition Temperature and Vapor Explosion of the Aluminum-Water Reaction", Paul O. Biney and Kevin Lee, Proceedings of ICONE26, 2018 26th International Conference on Nuclear Engineering, July 22-26, 2018, London
2. "Extraction and characterization of triglycerides from coffeeweed and switchgrass seeds as potential feedstocks for biodiesel production; Grace Armah-Agyeman, Michael Gyamerah, Paul O Biney and Selamawit Woldesenbet; Journal of the Science of Food and Agriculture, DOI: 10.1002/jsfa.7649, 2016
3. "Effects of extended surfaces on temperature distribution inside a fixed bed biofuel pyrolysis batch reactor", Kamau Tillmutter, Paul O. Biney. Submitted for publication in the Proceedings of the ASME 2015 International Mechanical Engineering Congress & Exposition (IMECE 2015), November 13-19, 2015, Houston, Texas
4. "Collaboration between IT and Academics for Successful Assessment", Felecia M. Nave, Charlene Stubblefield, Paul Biney, James Palmer, Michael Nojeim and Rahim Quazi, 2015 AAC&U Centennial Annual Meeting, 01/21-01/24/2015, Washington, DC.

5. “Kinetics of the pyrolysis of arundo, sawdust, corn stover and switch grass biomass by thermogravimetric analysis using a multi-stage model”; Paul O. Biney, Michael Gyamerah, Jiacheng Shen, Bruna Menezes. *Bioresource Technology* 179 (2015) 113–122.
6. “Design of Auger Type Bioreactor for Pyrolysis of Plant Biomass”, Senior Design project final report, Mechanical Engineering Department, Prairie View A&M University, 2009
7. “Dispersion of aminoalkyl-silyl ester or amine alkyl-phosphonic acid Side wall functionalized Carbon Nanotubes in silica using sol-gel processing” *Mater. Lett.* 2007 *doi. 10.1016/j.Mat.let.2007.07.030*
8. Screening Tests for Candidate Cryogenic Tank Materials, 2004 HighTemple Workshop, Sacramento, CA.
9. “Thermal Effects on the properties of Epoxy and Polyimide Adhesive Bonded Graphite/Bismaleimide Composites”, *Journal of Advanced Materials*, Vol. 35, No. 2, April 2003, Society for the Advancement of materials and process Engineering.
10. Cure Optimization of IM7/5250-4 Prepregs Under Field Repair Conditions, 46th International SAMPE Symposium, May 6-10, 2001.
11. Study on the Thermal and Hygrothermal Behaviors of Epoxy and Polyimide Adhesives, 46th International SAMPE Symposium, May 6-10, 2001.
12. Butuk, N.K., Biney, P., and Huque, Z, 1998, “Development of a Reduced Chemical Mechanism for Combustion Simulations of Ramjet/Scramjet Engines” *_Central States Section of the Combustion Institute: Combustion Fundamentals and Applications-* Lexington, Kentucky,