

Adeola Olapeju OYELADE

Science Research Building,

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Room 261,

University of North Texas

Denton

TX 76203

EDUCATION

University of North Texas, Denton Texas

- Graduate Student **Jan 2015 – Till date**
 - ❖ Fabrication of novel aromatic-boroncarbide based thin films using PECVD and characterization by XPS, UPS and ellipsometry
 - ❖ Theoretical calculation using DFT to predict and back up experimental data from PECVD of aromatic-boron-carbide films
 - ❖ Metal (Ru, Co & Cu) film deposition on sapphire by PVD and characterization by XPS, AFM and ellipsometry

University of Lagos, Nigeria

- B.Sc. (Hons) Chemistry (Second Class Upper Division) **Jan 2008**

PROFESSIONAL EXPERIENCE

Honeywell Flour Mills Plc, Apapa, Lagos (Laboratory Analyst) **Sept 2011 – Dec 2014**

- Determination of the quality of wheat before milling
- Quality assurance tests on other raw materials and additives
- Determination of the quality of end-products (Flour both white and brown, Semolina and Wheat meal) at the different stages of the milling process and after milling.
- Determination of the quality of the outputs of the finished products by test-baking of the flour and pasting of the Semolina and wheat meal.

Honeywell Flour Mills Plc, Apapa, Lagos (Management Trainee) Oct 2010 - Sept 2011

Nigerian Breweries Plc, Iganmu, Lagos (Laboratory Analyst) March 2008 – August 2010

- Determination of the quality of products during and after production
- Determination of the quality of raw materials received in the brewery
- Determination of the quality of water used for production

PCI Paints Limited, Orile Lagos (Internship) September 2006 – October 2006

- Determination of the quality of paints during and after production
- Preparation of laboratory size paints

SKILLS

- Proficient in the use of Microsoft office (Excel, Word, PowerPoint)
- Flare for analysis and problem solving
- Excellent verbal and communication skills
- Ensures quality standards are met
- A strong team player with leadership and motivating skills
- Shows enthusiasm for goals and career commitment
- Adapts to changing demands, conditions and environment
- Strong interpersonal skills

PUBLICATIONS

- Dong, B.; Oyelade, A.; Nandagopal, N.; kelber, J.A. Aromatic-doped boron carbide films formed by PECVD of metacarborene and aniline or pyridine: Chemical and electronic structure. *Surface & Coatings Technology* 314 (2017) 45–50
- Dong, B.; Oyelade, A.; kelber, J.A. Carborane-based polymers: a novel class of semiconductors with tunable properties. *Phys. Chem. Chem. Phys.*, 2017, 19, 10986
- B. Dong, E. Echeverria, A. Oyelade, D. Converse, J. Silva, J.M. Rimsza, J. Du, M.S. Driver, Benjamin Hayworth, Nan Shao, Yi Gao, Wai-Ning Mei, P.A. Dowben, J.A. Kelber. Chemical and electronic structure of composite films deposited by plasma-enhanced chemical vapor deposition from orthocarborene and pyridine source compounds. *Journal of Electron Spectroscopy and Related Phenomena* 223 (2018) 21–28
- E. Echeverria, G. Peterson, B. Dong, S. Gilbert, A. Oyelade, M. Nastasi, J.A. Kelber, P.A. Dowben. Band Bending at the Gold (Au)/Boron Carbide-Based Semiconductor Interface. *Z. Phys. Chem.* 2018

PRESENTATIONS

- American Vacuum Society, Texas chapter meeting, (2017); *Aromatic/carborane films- Structure and Charge Transport*
- American Vacuum Society, Texas chapter meeting, (2016); *Aromatic/Boron Carbide Composites: Emerging Materials for Neutron Detection and More*