Thursday, November 10

Technical Session 1: Catalytic/Synthetic Chemistry & Engineering

8:00:00 AM
Catalysis of the Aza-Diels-Alder Reaction by Hydrogen and Halogen Bonds
Vincent de Paul Nzuwah-Nziko

8:15:00 AM
New Perspectives in Iridium-Catalyzed C-H Borylation
Alex Kosanovich

8:30:00 AM
The Redox Auxiliary Promoted [3,3]-Sigmatropic Rearrangement of 3-amino-1,5-Hexadienes
Chinenyeze Nwankwoal

8:45:00 AM
A Novel Method for Synthesis of OMC and M-OMC for PEM Fuel Cell Pt-electrocatalyst
Dereje Worku

9:00:00 AM
Discovery of Novel Cationic-Cobalt(I) catalyst for hydrofunctionalization.
Stanley Jing

9:15:00 AM
Adsorption and Catalytic Decomposition of Dimethyl Methylphosphonate on Metal Oxide Surfaces
Kim Huynh

9:30:00 AM
Effect of Early Transition-Metal Carbides as a Support for Low Loading Noble Metals in Direct Ethanol Fuel Cells
Olabode Ajenifujah

9:45:00 AM
Brønsted Acid Catalyzed SN1-Type Reaction via Unsymmetrical 2-Azaallyl Cation
Mirza Ardellan Saputra
Technical Session 2: Analytical: Chemical Characterization

8:00:00 AM
Environmental Forensics: Molecular Insight into Chemical Degradation of Carbon Compounds in Aquatic Systems
Amy McKenna

8:15:00 AM
Multiplexed and Direct Analysis of Malaria Biomarkers by a 3D Microfluidic Paper-based Device
Sierra Jackson

8:30:00 AM
Total Glycosphingolipid Analysis Using UPLC-MS/MS: Comparison of Different Column Chemistries
Rodell Barrientos

8:45:00 AM
Microaspiration CE-ESI-MS for In situ Tracking of Metabolism in Single Embryonic Cells of the Xenopus (Frog) Embryo
Rosemary Onjiko

9:00:00 AM
Charge Storage Mechanisms of High Surface Area Carbides and Nitrides for Supercapacitors
Abdoulaye Djire

9:15:00 AM
Deducing The Physisorb, Electron And Proton Transfer Processes On Sial Catalytic Surfaces From Epr/ENDOR Measurements Using The Antioxidant Carotenoid
Sefadzi Jay-Agbozo

9:30:00 AM
Active-State CB1 Receptor Model Used as a Synthetic Cannabinoid Probe
Maria Muhammad

9:45:00 AM
Algal Crop Protection Utilizing Integrated Pest Management through Early Detection via Mass Spectrometry and Identification of Pathogens and Predators using qPCR/HRMA
Robert Pomeroy
Technical Session 3: Polymers and Nanoscience

8:00:00 AM
ORMOCHALCs: Organically Modified Chalcogenide High-Refractive Index Polymers
Darryl Boyd

8:15:00 AM
Site Selective Nucleation and Growth of Gold Nanoparticles on the Pore Structures of a Virus
Candace Benjamin

8:30:00 AM
Improving Poly Lactic Acid (PLA) Thermal and Mechanical Properties Using Lignin Coated Cellulose Nano Crystals (L-CNCs)
William Simmons

8:45:00 AM
Synthesis and Characterization of Emissive Eumelanin-Inspired Poly(arylenevinylene) Block Copolymers
RaiAnna Arscott Hopson

9:00:00 AM
The effects of side chain engineering on optoelectronic properties of electrochromic conjugated polymers
Melony Ochieng

9:15:00 AM
Solid-State Garnet Polymer Composite Electrolyte for Flexible Batteries
Marcus Carter

9:30:00 AM
Quantifying Polycation-Membrane Interactions from Experiment and Theory
Alicia McGeachy

9:45:00 AM
Plasma Effect on Polymer Surfaces
Kenia Colin
Technical Session 4: Biochemistry & Chemical Biology

8:00:00 AM
Mechanisms of Packaging of Bunyaviridae Viral Genomes by N Protein
Shanai Brown

8:15:00 AM
A Unified Mechanism for the Prebiotic Synthesis of Nucleobases from HCN
Sofia Walton

8:30:00 AM
Cationic Polypeptoids: Potential as Vehicles for Nonviral Gene Delivery
Jessica Simpson

8:45:00 AM
Mixed-valency Diiron Center in HD-GYP Phosphodiesterase Required for Cyclic-di-GMP Hydrolysis
Elizabeth Ndontsa

9:00:00 AM
Insight on Thiopurines and their antimetastatic effects via Rac1 inactivation
Hope Gloria Umutesi

9:15:00 AM
Chemically Amending Protein Alkene/Alkyne Functionalities for Catalyst-Free Click Reaction
Keturah Odoi

9:30:00 AM
Harm-reduction tobacco products inhibit osteogenesis by altering kinase signaling response to oxidative stress
Lauren Walker

9:45:00 AM
Chemical modulation of cystathionine gamma lyase/hydrogen sulphide system in mammalian cells
Fidelis Ndombera
Technical Session 5: Analytical: Spectroscopy Characterization

10:15:00 AM
Surface Enhanced Raman Spectroscopy (SERS) Evaluation of Medicines Containing Diphenhydramine
Latevi Lawson

10:30:00 AM
Characterization of Antioxidants in Coffee as Influenced by brewing Techniques
Arnold Jele

10:45:00 AM
An automated droplet-based µChopper resolves small fluorescence differences and enables measurement of single-cell fatty acid uptake
Jean Negou

11:00:00 AM
Classification Of Bacteria By Surface Enhanced Raman Spectroscopy And Principal Component Analysis
Stacy Jones

11:15:00 AM
Nonlinear Multi-Photon Laser Wave-Mixing Spectroscopy for Sensitive Detection of Environmental and Biomedical Applications
Jean Sebastien Pradel

11:30:00 AM
Investigation of PAH Photochemistry in Octanol using Reaction Progress Monitoring
Sharon L Neal

11:45:00 AM
Food Purity Analysis of Adulterated Natural Oil (neem and flaxseed oil) Compositions by FTIR Spectroscopy and Partial Least-Squares Regression
Brianda Elzey
Technical Session 6: Engineering - Process and Chemical

10:15:00 AM
Study Of Glycerol For Use As Renewable Biomass Fuel In Iron-Ion/Glycerol Redox Flow Battery
James Akrasi

10:30:00 AM
Anion effects on the Structure and Ion Transport Properties of Surface-Tethered Poly(Ionic Liquids)
Ian Njoroge

10:45:00 AM
Applications of Shear Thickening Fluids(STF) for Transtibial Prostheses
Jehnae Linkins

11:00:00 AM
Influence of Zeolite 4A/SiO2 on the Transport Behavior of O2, N2, CO2 and CH4 through Polydimethylsiloxane Nanocomposite Membrane
Emmanuel Ogbole

11:15:00 AM
Pseudocapacitance for Early Transition Metal Nitrides in Protic Ionic Liquid Electrolytes
Jean Yves Ishimwe

11:30:00 AM
Miniature device for molar mass analysis by combination of SAW and capacitance sensor
Thisara Walpita

11:45:00 AM
Pay attention to mixing for successful process research, development and scale-up
Victor Atiemo-Obeng
Technical Session 7: Computational Chemistry 1

10:15:00 AM
Paraphenylene Based Ruthenium (II) Polypyridyl Polymers: Computational and Processing Studies
Jamel White

10:30:00 AM
Proton-coupled Electron Transfer in [C5H5N·(H2O)n = 3,4]−
Kaye Archer

10:45:00 AM
Nature of π-Stacking Interactions of Aromatic Nitro Compound Derivatives on Boron Nitride Nanosheets
Christopher Copeland

11:00:00 AM
Chlorophenols Sorption On Multi-Walled Carbon Nanotubes: Dft Modeling And Structure-Property Relationship Analysis
Marquita Watkins
Technical Session 8: Organic Chemistry: Synthesis and Characterization

1:45:00 PM
**Toward the Total Synthesis of Amphidinolide C**
Daniel Akwaboah

2:00:00 PM
**Diazot-Heteroatom Insertion/Conia-Ene Cascade: The Synthetic Blueprint to Building Spirocores**
Arianne Hunter

2:15:00 PM
**Synthesis and characterization of the gelation properties of a Series of peracetylated disaccharide triazoles**
Ifeanyi Okafor

2:30:00 PM
**A Modular Approach Toward Chondroitin Sulfate Oligosaccharides**
Josette Wilkes

2:45:00 PM
**Synthesis of A3B-type Phthalocyanine Analogues and Their Biological Evaluation.**
Elizabeth Okoth

3:00:00 PM
**Synthesis of disaccharides via acid-catalyzed activation of a 4-aryl-3-butenylthioglycoside glycosyl donor**
Kristina Deveaux

3:15:00 PM
**Brønsted Acid-Catalyzed Disaccharide Formation Using Thioglycosides**
Rashanique Quarels
Technical Session 9: Nanoscience

1:45:00 PM
**Measuring ultrafast dynamics of single ZnO nanostructures by Ultraviolet femtosecond Kerr-gated wide-field fluorescence microscopy**
Jolie Blake

2:00:00 PM
**Organometallic Halide Perovskites in Photovoltaic Devices: Perspectives and Prospects**
Trishelle Copeland-Johnson

2:15:00 PM
**Deposition of porphyrins within alkanethiol nanostructures prepared with particle lithography**
Ashley Taylor

2:30:00 PM
**Capturing fast processes in live cells with 3D Multi-resolution microscopy**
KevinWelsher

2:45:00 PM
**ALD-Functionalized Plasmonic Nantennas: Toward Single-Molecule Investigations of Photocatalysis**
StephanieJean

3:00:00 PM
**Electrospun Tri-layer Nanofiber Composite Membranes for H2/Air Fuel Cells**
DevonPowers

3:15:00 PM
**Selective detection of protein homologues by outer membrane protein G nanopore**
BibYang
Technical Session 10: Chemistry: Analytical Characterization

1:45:00 PM
Ratiometric Fluorescence Detection of Hydroxyl Radicals Using Binary Cyanine-Based NanoGUMBOS
Mingyan Cong

2:00:00 PM
Controlling Chemical Vapor Transport Synthesis Of Bismuth Telluride Nanosheets On Mica Substrates
Quentarius Moore

2:15:00 PM
In vitro manipulation of stimuli-responsive liposomal contents release potentially activated by overexpressed hNQO1 in cancer cells
Huy Nguyen

2:30:00 PM
Combining Gas Chromatography, Gas Chromatography Mass Spectrometry and Principal Component Analysis to Facilitate Complete Detection and Identification of Fire Accelerants
A BakarrKanu

2:45:00 PM
Investigation of materials Through Scanning Probe Microscopy
Marisa Richardson

3:00:00 PM
Preparation of Highly Fluorescent Environmentally Persistent Free Radical Surrogates: Surface Modification of Silica-coated Upconversion Nanoparticles with Nickel Oxide
Ansonia Badgett

3:15:00 PM
Nanoscale Patterning of Proteins: Toward Biosensor Development
Zachary Highland

3:30:00 PM
Cyclopropanes and Cyclobutanes as Precursors for Chemical Diversity
Raynold Shenje

3:45:00 PM
Organic Synthesis of Fluorescent Cyanine Dyes and their Precursors
Jahnn Drigo

4:00:00 PM
Tetrahedral Intermediate for a nonlinear optical chromophore of tetracyanoquinodimethane
Nneamaka Ndukwe

4:15:00 PM
Post-Synthetic Modification of Drug Candidates via C-H Functionalization
Stacy Fosu
4:30:00 PM
**Microwave Synthesis and Analysis of Heptamethine Cyanine Dyes**
Tijesunimi Odebode

4:45:00 PM
Maria Martin
Technical Session 12: Bio-inspired Materials, Polymers and Nanoscience

3:45:00 PM
Mechanochemical Remodeling: From New Reactions to Adaptive Materials
Stephen Craig

4:00:00 PM
Endothelial Glycocalyx and Cancer Metastasis: The effect of Glycosaminoglycans on 4T1 Breast Cancer Cell Attachment to the Endothelium
Solomon Mensah

4:15:00 PM
Elucidating Bacterial Interactions in the Vaginal Microbiome Using Microfluidic Droplet Technology
Corinen Jackman

4:30:00 PM
Synthesis of Biodegradable Polycarbonate Nanostructures with Selective Lysis against Gram Positive Bacteria
Alekhya Nimmagadda

4:45:00 PM
Nonlinear Optical Imaging of Liver Cancer Cells Using Plasmon Coupled DNA-Mediated Gold Nanoprism Assembly
Jasmine Burrell

5:00:00 PM
Cellular Sorting and Concentration in a Direct-Current Insulator-Based Dielectrophoretic Microchannel
Ezekiel Adekanmbi

5:15:00 PM
Design and Fabrication of Polymeric Tissue Scaffolds by 3-D Printing
Myischionna Hunter
Technical Session 13: Analytical II: Chemical Separations and Characterization

3:45:00 PM
Electrochemically Modulated Extraction of Neodymium
Shannon Anderson

4:00:00 PM
Lectin affinity chromatography and Immunextraction as a tool to study the effect of glycosylation on drug binding property of Alpha1- acid Glycoprotein
Kenan Dzide

4:15:00 PM
Optimizing High Throughput Sieving Electrophoresis of Proteins Using Silica Colloidal Crystals
Tamika Ragland

4:30:00 PM
Capillary Electrophoretic Enzyme Assay of Acetyl Coenzyme A Carboxylase
Thu Nguyen

4:45:00 PM
Gradient Enhanced Fluidity Liquid Chromatography of Oligosaccharides and Simple Sugars
Raffeal Bennett

5:00:00 PM
Improved Protein Separations Using Cationic Polyacrylamide Gel Electrophoresis with Ionic Liquid Surfactants
Punprabhashi Vidanapathirana

5:15:00 PM
Alterations in metabolism pathways of late-stage Alzheimer’s disease mice using the quantitative proteomics technique cPILOT
Christina King
Friday, November 11

Professional Technical Session 1: University Scientists and Their Advancements in Research and Development

9:00:00 AM
**Development of a Practical Hydroamination Transform for use in Complex Synthesis**
Martin Tabor

9:15:00 AM
**Stimuli-responsive materials: from photoinduced charge carriers in metallopolymers to temperature sensitive drug delivery depots**
Darlene Taylor

9:30:00 AM
**Organic Dye Based Turn-On Sensors for Metal Ions and Nerve Gas Mimics in Organic Media**
Fasil Abebe

9:45:00 AM
**Microwave Induced Thermal Gradients in Multiphase Systems**
Alvin Kenned

10:00:00 AM
**Light Activation of a Ruthenium(II) Caged Antimicrobial**
Robert Garner

10:15:00 AM
**Dual-Marker Isolation and Characterization of Pancreatic Ductal Adenocarcinoma Circulating Tumor Cells via EpCAM- and CD44- based Immunomagnetism**
Rhonda Jack

10:30:00 AM
**Spectroscopic Investigation of Metal Ion Interactions with Cellulose Nanofibrils**
Todd Coolbaugh

10:45:00 AM
**Designing Superhalogens: Insights and Predictions from Electron Propagator Theory**
Vince Ortiz

11:00:00 AM
**Photochemical activation of metastable H2 in the universe**
William ackson
Professional Technical Session 2: Recent Advancements in Government Research

9:00:00 AM
High-Temperature, High-pressure Viscosity Reference Fluid Search: Status
Isaac Gamwo

9:15:00 AM
Synthesis of nanoinks using novel precursors for advanced Direct Write applications
LaRico Treadwell

9:30:00 AM
Flux Syntheses and Structural Characterization of Cu(I)-M(V) Oxide Semiconductors
Nacole King

9:45:00 AM
Extracting Rare Earth Elements from Coal Ash by Reactive Grinding
Murphy Keller

Award Session: Henry McBay Outstanding Educator Award Session - STEM Education

9:30:00 AM
STEAM Education as Activism - Social Implications of Black Productivity in Agriculture, Chemistry, Biochemistry, and Related Disciplines
Ashley Oyirifi

9:45:00 AM
How Do Student's Experience aPproject-Based Lab?
Nikita Burrows

10:00:00 AM
Training Effective Communication to Prepare Future STEM Leaders in Chemistry
Danielle Watt

10:15:00 AM
Gateway science pathways for STEM majors at Duke University
Canelas Canelas

10:30:00 AM
African American Female Engineering Students Persistence in Stereotype Threatening Environments: A Critical Race Perspective
Stacie Gregory

10:45:00 AM
Diversity in a Summer International REU Program: Issues and Strategies
Terence Nile
Overcoming Resistance: Integrating Guided Inquiry Methods into the Traditional Lab Construct at Three Greatly Differing Laboratory Environments
Colleen Taylor

Successful Interventions for STEM Scholars
Aliecia McClain

Process Oriented Guided Inquiry Learning (POGIL) - The fundamentals
Tricia Shepherd

Formation of a NOBCChE and ACS Chapter
Josley Pierre-Louis
Technical Session 21: Computational Chemistry 2

8:00:00 AM
Composite Electron Propagator Methods: Application to C60, Benzo[a]pyrene and Mg-octaethylporphyrin
Manuel Diaz-Tinoco

8:15:00 AM
Designing Superhalogens: Insights and Predictions from Electron Propagator Theory
Vincent Ortiz

8:30:00 AM
Reorganization Energies, Ionization Potentials, and Electron Affinities of 4-([2,2'-bithiophene]-5-yl)pyridine and 4-[5-(furan-2-yl)thiophen-2-yl] pyridine
Alva Dillon

8:45:00 AM
Using the ITTM model with Replica Exchange Molecular Dynamics Simulations to Analyze Alkali-Metal-Water Clusters: Structures, Interactions and Vibrational Frequencies
Achombom (Jude) Tunyi
Technical Session 14: Biochemistry

9:00:00 AM
PH-Dependence Of Kinetic Parameters Of E109Q And H40A Mutants Of F420-Dependent Glucose-6-Phosphate Dehydrogenase From Mycobacterium Tuberculosis
Mercy Oyugi

9:15:00 AM
Bioethanol production by fermentation of ionic liquid hydrolyzed lignocellulosic biomass using genetically engineered Zymomonas mobilis
Mercy Ampaw-Asiedu

9:30:00 AM
Towards Rapid Inhibitor Screening And Mechanistic Evaluation Of TB Sikimate Kinase: Targeted Intrinsic Protein Fluorescence
Rene Fuanta

9:45:00 AM
Mechanism of Multidrug Resistant Efflux Pumps
Abigail T. Ntreh

10:00:00 AM
Analysis of the Binding Affinity, Thermodynamic Properties and Determinations of Propanil and Bromoxynil Herbicide Concentrations in Human Serum Albumin Using Fluorescence Spectroscopy
Eric Appah

10:15:00 AM
Homogeneous Thermofluorimetric Assays for Measuring Both Second Messenger Signaling and Hormone Secretion
Juan Hu

10:30:00 AM
Development of DC-SIGN Probes for Identification of Gut Microbial Species
Chariesse Ellis

10:45:00 AM
Structural Characterization of Bat Coronavirus HKU9 non structural protein 3 - M domain
Pamlea Brady

11:00:00 AM
Blood Coagulant Factor XiII Cross-Links Reactive Glutamines In Disordered Regions Of Fibrinogen Ac
Kelly Njine Mouapi

11:15:00 AM
Optimizing the Protein Yield of TsrM, a Class B Radical SAM Methylase
Brianne Jones

Technical Session 15: Environmental Science & Engineering
9:00:00 AM
**The Development Of Calixarene Complex For The Adsorption Of Multi-Heavy Metal Cations**
Kai Guo

9:15 AM
**Uranyl Sensing Using 2-Quinoxalinol Salen Ligands**
Maya West

9:30:00 AM
**Application of Environmental Pill for Remediating Surface Water**
Niya King

9:45:00 AM
**Crop Protection Utilizing Integrated Pest Management through Early Detection and Identification of Pathogens and Predators**
Alexia Moore

10:00:00 AM
**Utilizing SO2/CO and SO2/CO2 Mixing Ratios to Determine the Effective Oxidative Strength of the Wintertime Atmosphere on SO2**
Jaime Gree

10:15:00 AM
**Carbon Capture with Polyethylenimine (PEI) Functionalized Titanate Nanotubes**
Melisa Stewart

10:30:00 AM
**Isolation And Identification Of The Phytochemicals From The Leaf Etract Of Tabernaemontana Longipes**
Simira Carothers

10:45:00 AM
**Fabrication of Ultra-Filtration Membrane to Mitigate Organic Fouling During Water Treatment.**
Efosa Igbinigun

11:00:00 AM
**Hydraulic fracturing fluid and pyrite surface reactions of selected biocides: dazomet and DBNPA**
Nizette Consolazio

11:15:00 AM
**Quest for the Greener Boom: Accessing Explosive High-Nitrogen Cocrystals**
Rosalyn Kent

11:45:00 AM
**The Effect Of Different Extraction Techniques And Solvent System On The Antioxidant Activity Of Pyrus Pyrifolia Fruit Peel Extracts**
Priyesh Dwivedi
Technical Session 16: Bio-inspired II - Materials, Polymers and Nanoscience

1:30:00 PM
Chemical Modification of Functionalized Polyhydroxyalkanoates via “Click” Chemistry: A Proof of Concept
Samuel Nkrumah-Agyeefi

1:45:00 PM
Diversifying the Chitin Economy: Different Sources of Biomass for Chitin Extraction and Biomaterial Formation
Ezinne Achinivu

2:00:00 PM
Electroactive Polymeric Nanofibers as Active Component in Biosensors
Genefine Sapateh

2:15:00 PM
Effects of Metal Ions on the Antimicrobial Properties of Silver Nanoparticles
Chartanay Bonner

2:30:00 PM
Comprehensive mutagenesis on yeast cytosine deaminase to increase its sensitivity for 5-fluorocytosine for suicide-gene therapy
Tiana Warren

2:45:00 PM
Artificial Photosynthesis: Modulation of Photo-induced Events in Palladium Porphyrin-Fullerene Donor-Acceptor Systems
Christopher Otara bondi

3:00:00 PM
Exploring Advanced Amphiphilic Arylazopyrazole Molecular Photo-switches for Fabrication into Micellar Hydrophobic Drug Carriers with an Advantageous Photo-Triggered Delivery
Stefan Cooper

3:15:00 PM
Experimental Studies of Jamming in Colloidal Systems using Confocal Microscopy
Eru Kyeyune-Nyombi
Technical Session 17: Biochemistry and Chemical Biology

1:30:00 PM
Analysis of DNA damage induced by mono-functional quinone methide intermediates
Blessing Deeyaa

1:45:00 PM
Pharmacological investigations of angiotensin II type 1 receptor blockers reveal effective physiological concentrations in the eye after administration via drinking water
Ralph Hazlewood

2:00:00 PM
Structural and Biochemical Analysis of Bat-CoV HKU9 C Nonstructural Protein 3 Domain
Robert Hammond

2:15:00 PM
The Ferrous Iron (Fe2+) Effect on Prebiotic Phosphorylation of Nucleosides
Mischael Daniel

2:30:00 PM
The Intersection between Mentoring, Microbiome, and Mannose Binding C-Type Lectins
Charnell Long

2:45:00 PM
Pauline Serrano

3:00:00 PM
Molecular design and biological evaluation of disulfide-masked prochelation strategies targeting iron in malignant cells
Eman Aka

3:15:00 PM
Biochemical Studies of a Capsule Producing Glycosyltransferase from Neisseria meningitidis
Pumtiwitt McCarthy

3:30:00 PM
Selective molecular recognition using acyclic cucurbiturils
Sandra Zebaze Ndendjio

3:45:00 PM
Harnessing Cyclic AMP Signaling for Bone Regenerative Engineering
Guleid Awale
Technical Session 18 Inorganic Material and Synthesis (InOrgMatSyn)

1:30:00 PM
Gold Nanoparticle-Based Dynamic Light Scattering Assay for Selective and Sensitive Detection of Cadmium
Janine Wiley

1:45:00 PM
Small gold nanoparticles interfaced to electrodes through molecular linkers: A platform to enhance electron transfer and increase electrochemically active surface area
Jaclyn Kellon

2:00:00 PM
Investigating the use of some Pt-group inorganic compounds for biological applications
Regina Akhimie

2:15:00 PM
Visual Detection of Degraded Glutathione Peptides via the Prevention of Gold Nanoparticle Dipole-Dipole Interactions
Monique Farrell

2:30:00 PM
Alkali-Metal Capped Cerium(IV)-Imido Complexes
Lukman Solola

2:45:00 PM
Syntheses And Binding Studies Of Novel Trisamine-Based Thiosemicarbazide Receptors For Anions
Corey Johnson

3:00:00 PM
Cage Opening Of The Carborane Ligand, Closo-O-(1-SCH3)C2B10H11 By Triosmium Carbonyl Cluster Complexes
Joseph Kiprotich

3:15:00 PM
Synthetic and Structural Comparisons Between Group 14 Dithiolato Metalenes and First Row Transition Metal Dithiolato Complexes
Jade Pratt
Technical Session 19: Functional Materials, Electrochemistry, Nanoscience (FMEN)

1:30:00 PM
High Capacity, Long Cycling Lithium Iron Phosphate (Lifepo4) Electrode Fabrication For Lithium Ion Battery.
Venroy Watson

1:45:00 PM
Keratin Films as a Substrate for Hair Dye Studies
Tova Williams

2:00:00 PM
Investigation of Rheological and Cure Kinetics Graphite/Graphene dispersed in Phenylethynyl Terminated Imide Resins.
Lionel Cross

2:15:00 PM
Inhibiting Interfacial Recombination Events in Dye Sensitized Solar Cells using Self-Assembled Bilayers
Omotola Ogunsolu

2:30:00 PM
Enhancing Solution Processed Solar Cell Photocurrents via Plasmonic Nanoparticles
Ebuka Arinze
Technical Session 20: Medicinal Chemistry, Pharmacology, Pharmaceutical chemistry. (MCPPC)

1:30:00 PM
Design and Synthesis of Potential CXCR4 Modulators
Theresa Gaines

1:45:00 PM
Discovery And Characterization Of Aryl Isonitriles As A New Class Of Compounds Versus Methicillin- And Vancomycin-Resistant Staphylococcus Aureus
Kwaku Kyei-Baffour

2:00:00 PM
Investigation of Clickable Peptidic-BODIPY Conjugates
Tyrsai Williams

2:15:00 PM
Synthesis Of Indole-Based Allosteric Hiv-1 Integrase Inhibitors
Janet Antwi

2:30:00 PM
Late-stage C-H Functionalization of Phyllanthusmin Natural Products
Chido Hambira

2:45:00 PM
NanoGUMBOS: Tunable Nanomaterials for Biomedical Applications
Isiah Warner