4TH Annual Gilbert Ogonji Science Symposium

AGENDA

Thursday, September 22, 2016

8:00 AM - 8:30 AM  REGISTRATION AND CONTINENTAL BREAKFAST

8:30 AM - 9:00 AM  WELCOME

Dr. Jamal Uddin, Chair, 4th Annual Gilbert Ogonji Science Symposium
Department of Natural Sciences and Center for Nanotechnology
Coppin State University (CSU)

Room 120  GREETINGS

Dr. Maria Thompson, President, Coppin State University
Dr. Beverly Downing, Interim Provost & VP of Academic Affairs, CSU
Mr. Douglas Dalzell, Vice President of Institutional Advancement, CSU
Dr. James Takona, Dean, College of Arts & Sciences and Education, CSU
Dr. Mintesinot Jiru, Chair, Department of Natural Sciences, CSU
Ms. Carrie Stockwell, Senior Manager, Corporate Relations, Constellation

9:00 AM – 10:00 AM  KEYNOTE SPEAKER
Room 120  Joseph R. Lakowicz, Ph.D.
Director, Center for Fluorescence Spectroscopy
Professor, University of Maryland School of Medicine, Baltimore, MD

Abstract: The Revolution in Biotechnology was made Possible by Fluorescence Technology

10:00 AM - 10:45 A.M.  TECHNICAL SESSION

Room 104  Biotechnology of Extremophiles: Bioengineering Nanoparticles for Biomedical Applications

Dr. Shiladitya DasSarma
Professor, Department of Microbiology & Immunology
University of Maryland School of Medicine, and Institute of Marine and Environmental Technology, Baltimore, MD

Abstract: Biotechnology of Extremophiles: Bioengineering Nanoparticles for Biomedical Applications
10:00 AM - 10:45 A.M.  **TECHNICAL SESSION**

Room 105  
**Dr. Richard B. Thompson**  
Associate Professor, Biochemistry and Molecular Biology  
Dept. of Biochemistry and Molecular Biology  
University of Maryland School of Medicine, Baltimore, MD

**Abstract:** Zinc and Copper in Biology: New Roles and Opportunities

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10:45 A.M. - 11:30 AM  **TECHNICAL SESSION**

Room 104  
**Dr. Joshua Singer**  
Associate Professor, Department of Biology  
University of Maryland College Park, MD

**Abstract:** From Synapse to Circuit: Studies of the Mammalian Retina

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Room 105  
**Dr. Marie-Christine Daniel**  
Associate Professor, Department of Chemistry and Biochemistry  
University of Maryland Baltimore County (UMBC), Baltimore, MD

**Abstract:** Multifunctional Gold nanoparticles for Clinical Imaging, Targeting and Therapeutic Use

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11:30 A.M. - 12:15 PM  **TECHNICAL SESSION**

**Dr. Alvaro Molina-Cruz**  
Staff Scientist  
Laboratory of Malaria and Vector Research, NIAID  
National Institutes of Health (NIH), Annapolis, MD

**Abstract:** Malaria parasite evasion of the mosquito immune system and adaptation to different vectors around the world

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Room 105  
**Dr. Ru-ching Hsia**  
Associate Professor  
Department of Neural and Pain Sciences  
University of Maryland, Baltimore, MD

**Abstract:** Electron Microscopy Advances Biomedical Research

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12:15 PM – 1:00 PM  **LUNCH**  
Health & Human Services Building 3rd floor Atrium
STUDENT ORAL PRESENTATIONS

Room 104
1:10-1:30 P.M.
Ms. Mariah Benjamin (Mentor: Dr. Kavita Hegde)
CSU Graduate BS in Biology

Abstract: Biochemical, morphological and gene expression modulation induced by oxidant challenge to the neural retina: possible prevention by pyruvate.

Room 105
1:10 – 1:30 P.M.
Ms. Janette North (Mentors: Dr. Mintesinot Jiru and Dr. Tatiana Roth)
CSU Graduate, Federal Communications Commission, Johns Hopkins, & CSU Collaboration Research Fellow

Abstract: Socioenvironmental Factors Contributing to the Degradation of the Baltimore City Water Supply; Its Effects on Aquatic Ecosystems and Public Health and Possible Solutions to the Problem

Room 120
1:10 – 1:30 P.M.
Mr. Shamsuddin Khan (Mentors: Dr. Jamal Uddin and Dr. William Ghann)
CSU Junior, Major: Computer Science

Abstract: Porphyrin-based Dye Sensitized Solar Cell

Room 104
1:30 – 1:50 P.M.
Mr. Kazim Ackie (Mentor: Dr. Fred Nesbitt)
CSU Senior Biology Major

Abstract: Measurement of the Raman and FTIR spectrum of Avigan

Room 105
1:30 – 1:50 P.M.
Ms. Telia Parker (Mentor: Dr. Hany F. Sobhi)
CSU Senior, Major: Biology & Chemistry

Abstract: Synthesis and Spectroscopic Characterization of Carnitine and Acylcarnitines by Electrospray Ionization– Liquid Chromatography Mass Spectrometry

Room 120
1:30 – 1:50 P.M.
Mr. Aleksander Everett (Mentor: Dr. Wieslaw Grebski)
Penn State University, Junior, Major: Engineering

Abstract: Designing of Zero-Energy and Zero-Carbon Passive Building

Room 104
1:50 – 2:10 P.M.
Ms. Carentxa Goede (Mentor: Dr. Tulio Chavez-Gil)
CSU Senior, Biology & Chemistry Major

Abstract: Synthesis, Electrochemistry, and Spectroscopic Studies of Metallofluorene-Porphyrins
STUDENT ORAL PRESENTATIONS

Room 105
1:50 – 2:10 P.M.
Dr. Ashley Queen (Mentor: Dr. Fred Nesbitt)
CSU Alumna, Adjunct Instructor, Howard University, Washington, DC

Abstract: Characterization of BRACA1 variants of unknown clinical significance in breast cancer

Room 120
1:50 – 2:10 P.M.
Sandesh Baral, Jarred Scott, Kiandre Byrd, Kyle McFarlane, Korey McFarlane, Corey Jackson (Mentors: Dr. Guevarra, Dr. William Ghann and Dr. Jama Uddin)
Bluford Drew Jamison High School, Baltimore, MD

Abstract: Fabrication of Dye Sensitized Solar Cell Using Natural Dye from Raspberry Fruit

Room 104
2:10 – 2:30 P.M.
Mr. Chisomaga R. Madufor (Mentor: Dr. Tulio Chavez-Gil)
CSU Senior, Major: Biology & Chemistry

Abstract: Functionalized Metallo-fluorine-Porphyrins: Synthesis, Spectroscopy, and Electrochemical Characterization

Room 105
2:10 – 2:30 P.M.
Mr. Edward Emerson (Mentor: Dr. Jamal Uddin)
CSU Junior, Major: Sports Medicine

Abstract: Cyanine Dyes as Photosensitizers for Dye Sensitized Solar Cells

2:30 PM – 3:15 PM
TECHNICAL SESSION

Room 104
Dr. Nicholas R. Magliocca
Assistant Research Professor
National Socio-Environmental Synthesis Center (SESYNC)
University of Maryland

Abstract: Synthesis in Socio-Environmental Research: Methodological Patterns, Challenges, and Guidelines

Room 105
Dr. Bryant C. Nelson
Staff Research Chemist
National Institute of Standards and Technology (NIST), Gaithersburg, MD

Abstract: Whole Organism Metrology in Support of Nanotoxicology Research
3:15 PM – 4:00 PM  TECHNICAL SESSION

Room 104  Dr. Savita Bhutoria
Division of Hematology
Department(s) of Medicine and of Physiology and Biophysics,
Albert Einstein College of Medicine, Bronx, NY

Abstract: Polymerization of Semisynthetic Chimeric HbS: Impact of Deforming the Helices of contact Domains vs multiple mutations of Contact Residue on Polymerization

Room 105  Dr. Jayfus Tucker Doswell
President/CEO, Juxtopia, LLC
Baltimore, MD

Abstract: JUICE™ Collegiate: Improving Student STEM Performance and Community Engagement through High-Tech Urban Entrepreneurship

4:00 PM – 4:45 PM  TECHNICAL SESSION

Room 104  Dr. Bret A. Hassel
Associate Professor, Department of Microbiology and Immunology,
Director MMI Graduate Program, University of Maryland School of Medicine,
Greenebaum Cancer Center Program in Oncology, Baltimore, MD
Director, Nathan Schnaper Intern Program

Abstract: STEM Education Mentoring, Cancer Research Internships and a PhD-track Post-Baccalaureate Program provide a network of training opportunities at the University of Maryland Baltimore

Room 105  Dr. Peter Rosado
Assistant Professor of Chemistry
Georgia College and State University, Milledgeville, GA

Abstract: Transcending Territories: Race, Language and Culture as a Latino Scientist

4:45 PM – 5:00 PM  CLOSING REMARKS

Room 120