

**DEPARTMENT OF ELECTRICAL
&
COMPUTER ENGINEERING**

Special Thanks

Dr. Coalton Bennett	Cornell University
Dr. Leye Aina	Epitaxial Technologies Inc.
Dr. Aaron Jackson	Epitaxial Technologies
Mr. Clarence Bell	Federal Regulatory Energy Commission
Mr. Jermon Bafaty	Lockheed Martin Inc.
Mr. Colin Tidd	Microsoft
Mr. Paul Booker	National Security Agency
Mr. Gregory West	Northrop Grumman
Dr. John Rowe	Honeywell
Thomas Hickey	Honeywell
Lt. Melissa Ashmore	US Navy
Lt. Hetty Okpu	US Navy
Dr. Reneta Tull	University of Maryland
Mr. Raymond Bowman	
Dr. Ade Sule Koike	
Ms. Jean-Louis Turner	
Dr. George Kliendorfer	

Dunbar High School

Mrs. Clementine Homesley, Principal
Mr. Donald Ross, Psychologist
Mr. Emmanuel Ekekwe, Teacher
Mr. Steve Wachira, Tech. & Property Manager

Students

Ms. Lamaya Baxster
Ms. Destiny K. Hubbard-Muhammad
Ms. Me'chelle Jones
Mr. Damon Stells

**21st Electrical
&
Computer Engineering
Day**



**Department of Electrical & Computer Engineering
Howard University**

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**Armour J. Blackburn Center
2400 6th St., NW
Washington, D.C. 20059**

Schedule of Activities

8:30-9:00 am Registration and
Continental A La Carte
Breakfast

9:00-9:10 am **Welcome & Overview -**
Auditorium
Dr. Mohamed F. Chouikha
Chairman
Department of Electrical &
Computer Engineering

9:10-11:00 am **Project Presentations**

Part A:

**“Potable Perimeter
Detection System”**

**Sponsor: Northrop
Grumman**

External Advisor:

Mr. Gregory West

Internal Advisor:

Dr. Charles Kim

Team Members:

Elijah Adedire

Monique Kirkman-Bey

Ehimwenma Nosakhare

**“Development of a
Training System for
Hardware Diversity
against Common Mode
Failure”**

Internal Advisor:

Dr. Charles Kim

Team Members:

Alix martin

Don King II

Ravindranath Jaglal

**“Development of an
Economical Bit Error
Rate Tester”**

Internal Advisor:

Dr. Charles Kim

Team Members:

Gerard Spivey

Oludotun Ode

“Pedometer Type Energy Harvester”

Sponsor: Northrop Grumman

External Advisor: Mr. Gregory West

Internal Advisor: Dr. Charles Kim

Team Members:

Bodunrin Jawando

Dhanushka Fernando

William Illium

11:00-11:10 am **Break** - (Students: Please
submit your completed exit
survey to the registration
table)

Part B:

11:10-12:00 pm **Demonstration & Poster
Session** – *Gallery Lounge*

Part C:

12:00-1:10 pm **Lunch**-*Hilltop Lounge*

Introduction of the Dean:

Dr. Charles Kim

Remarks & Introduction of the Keynote

Keynote Speaker: *Dr Coalton Bennett
(HU Alumni)
Cornell University*

1:10-2:00 pm Award and Photo Session

2:00 pm **Adjourn**

Coalton Bennett Ph.D. Biography

Coalton Bennett graduated with a Bachelors of Science in Electrical Engineering from Howard University in May of 2005 with honors, and is a member of the Tau Beta Pi international engineering honor society. He recently graduated with a Doctor of Philosophy in Electrical Engineering in May 2010 from Cornell University. The focus of Coalton’s dissertation was the application of Internet Quality of Service routing protocols, like MPLS, to Wireless Sensor Actuator Networks (WSANs). His work has been applied to the electric power industry, in particular residential electric power smart meters. Coalton has also participated in the development of two national standards one of which was approved by NIST and the United States Secretary of Energy, entitled AMI-SEC System Security Requirements. This document outlines a set of methods and procedures that can be used by electric power utilities to improve the: efficiency, robustness, and security of their current critical cyber-physical infrastructure and or Supervisory Control and Data Acquisition (SCADA) systems. Dr. Bennett also has a masters degree in Statistics and Econometrics.