

Bridge to a Chemistry Doctorate Program 2012 - 2014



Prof. K. Walker



Prof. R. Maleczka



Prof. G. Blanchard

- ◆ Although HBCUs enroll only 13% of the African-Americans who are in college, they award 40% of the science degrees earned by African-Americans in the U.S
- ◆ The long-term goal of the Bridge to a Chemistry Doctorate Program is to increase the pool of historically black college or university students with advanced degrees in chemistry. In the short-term, the program proposes to increase the number of students that transition from a historically black college or university to a Ph.D. degree-granting institution in chemistry.
- ◆ The objective is to set up an integrated plan of research and mentoring that will increase students' preparation and skills as they pursue a Bachelor's Degree and an advanced Chemistry Degree. The program also builds productive research collaborations between the partner institutions.

Bridge to a Chemistry Doctorate Program

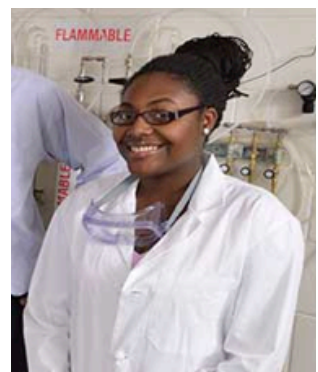
2013



Prof. E. Onyeozili



Prof. E. Ellis



Monique Noel

Florida Agricultural and Mechanical University	Hosting MSU Faculty Member	Outcome
Edith Onyeozili, Faculty	Prof. Kevin Walker	Dr. Onyeozili discovered a new reaction catalyzed by an aminomutase enzyme.
Monique Noel, undergraduate	Prof. Robert Maleczka	Ms. Noel researched the production of olefins through reduction by hydrostannates made in situ.
Alabama Agricultural and Mechanical University	Hosting MSU Faculty Member	Outcome
Erick Ellis, Faculty	Prof. Ned Jackson	Dr. Ellis worked with Dr. Jackson on using calcium methoxide to synthesize biodiesel fuels from cooking oils.
Samuel Taylor, undergraduate* NOTE: Sam Taylor was accepted to the Chemistry Graduate program beginning August 2014.	Prof. Dana Spence	Mr. Taylor used a fluorometric assay to measure the concentration of sugars in stored red blood cells.