A Sociological Framework for Understanding Climate Change, Sea-level Rise and Coastal Flooding in the African American Community: A Systems Approach

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Week 10 Final Report
DHS Summer Research Project
Goals of DHS Project

- The mission of the Coastal Resilience Center of Excellence (CRC) is to conduct research and education to enhance the resilience of the nation’s people, infrastructure, economies and the natural environment to the impacts of coastal hazards such as floods and hurricanes, including the effects of future climate trends.

- Improving understanding about why individuals choose to (or not to) implement risk-reduction measures at the household level and what risk-reduction measures they employ.

- Improving the ability to communicate risk to multiple audiences and take action based on that understanding.
Project Background

- Goals of our project:
  - Analyze social and behavioral responses of:
    - Community issues
    - Residential decisions
  - Make a planning responses to SLR and social determinants including heath disparities
  - Use a case-based study to access and examine social disparities of issues affecting marginalized communities
Robert Bullard

- Environmental Sociology
- Environmental Inequality
- Environmental Justice

Above: Robert D. Bullard
Environmental Sociology

- Vulnerability
- Social & Geographical Vulnerability
- Fenceline Communities
- Law and Policy

Above: Fenceline Community
Legal Obstacles

- Equal Protection Clause
- Virginia Law
Portsmouth, Virginia

Chestnut St. & Scott St., Portsmouth, VA
Role in Research

- Literature Review on Environmental Sociology
- Photo Documentation
- Resource Development
  - Curricular
  - Video resources
- Presentation and Discussion to Sociology Class
- Briefings
- Submitted Final Report

Above: Me presenting to Social Problems Class

7/28/2017
Student Development

- Collaborative Institutional Training Initiative (CITI) Training
- National Institute of Health (NIH) Laboratory Safety Training
- Graduate School Exploration
  - GRE and LSAT Strategies
  - Briefing on the Intelligence Community
  - Professional Socialization
Strategies for Ecology Education, Diversity and Sustainability (SEEDS) Club
Promotes an ecology profession with wide representation to ensure environmental understanding and a sustainable future for all

W.E.B. Du Bois Sociology Club
Focuses on providing and developing social and academic skills to prepare budding sociologists for career opportunities in their chosen field. We also sponsor, organize and facilitate seminars, panel discussions, social activities, and community service projects

Collaboration between the SEEDS Club and the Sociology Club can bring awareness to environmental issues and produce student lead activities demonstrating how issues of ecology goes beyond the science realm and affects each and every one of us

Campus Collaboration
DIA designated IC-CAE

Bryan Clayborne
DHS Summer Research Project

7/28/2017
Highlights of Program

- Research Project Procedures
- Graduate School Exploration
- In-depth Exploration of Environmental Issues
- Professional Relationship Development
- Certifications
- Continuance of Research Project
Research Activities

Old Dominion University’s VMASC (Virginia Modeling, Analysis, & Simulation Center)

- Learned about game and simulation software
- Presentation by Dr. Behr (ODU Professor)

Above: Simulation Software

Above: Bryan Clayborne playing with simulation software
Research Activities

Elizabeth River Project: Paradise Creek Nature Park

Above: Bryan Clayborne and Mikel Johnson

Above: Social Science and Biology Team

Above: Bryan Clayborne, Dr. Holmes, and Mikel Johnson
Research Activities

Week 5 Briefing Presentation at ODU

Above: Social Science Team

Above: Bryan Clayborne presenting briefing

Above: NSU and ODU Team discussion
Research Activities

Greenhouse visit

Above: Bryan Clayborne and Dr. Okpodu working in the greenhouse

Field Site Visit

Above: Community located in Portsmouth, VA