



HAMPTON
UNIVERSITY

A Graduate Student's Chosen Path to a Science Career

by

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Introduction



- Believe in GOD
- Woman of Color
- Native of Chicago
- Single
- Only child
- Virgo
- Love music
- Favorite color red
- Favorite food Mexican

Academic Degrees and Certification

Post-Secondary Education



- **Academic Degrees**
 - Tuskegee University
 - BS – Chemistry
 - Roosevelt University
 - MS – Biotechnology
 - Tuskegee University
 - MS – Mechanical Engineering
 - Hampton University
 - MS – Physics
 - Hampton University
 - PhD – Physics (Present)

- **Certification**
 - Roosevelt University
 - Certificate of Biotechnology

ROOSEVELT UNIVERSITY



Support and Enrichment Activities to Enhance My Education

Fellowships

- Virginia Space Grant Consortium: Fall 2004 - Spring 2006
- Alabama Graduate Research Scholar Program: Fall 2006 – Spring 2008

Summer School

- 2005, 2nd Annual Gravitational Wave Astronomy
- 2008, 20th Annual Planetary Science
- 2009, 3rd Annual Heliophysics

Internship

- Jet Propulsion Laboratory
 - California Institute of Technology - Summer 2006
- Howard Nanoscale Science and Engineering Facility
 - Howard University – Summer 2009

Workshop

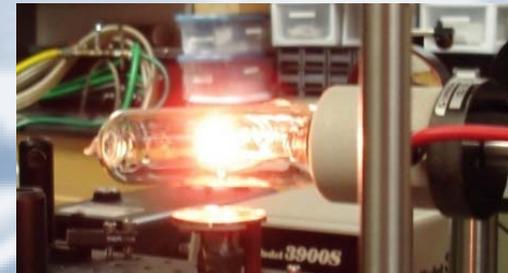
- 2007 “Thesis/Dissertation Writing Made Simple”
- 2007 “Grant Writing : Developing Competitive Grant Applications”
- 2009 “Preparing Future Faculty



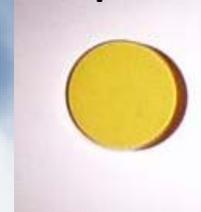
NSF Funded Research Project

- **Material Development and Spectroscopic Studies of Transition Metal Doped II-VI Semiconductor for Mid-Infrared Remote Sensing Applications**

– **Hampton University**



undoped ZnSe

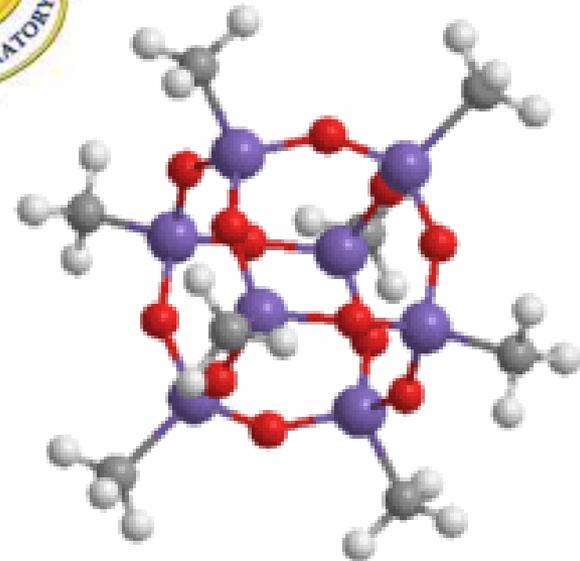


Cr doped ZnSe



NASA Funded Research Project

- **Space Survivable Nanocomposite Material**
 - **Air Force Research Laboratory**
 - **Edward AFB**
 - **Space and Missile Propulsion Division**
 - » **Summer 2007**
 - **Wright-Patterson AFB**
 - **Nonmetallic Materials Division**
 - » **Summer 2008**



Near-Term Goal & Objectives



- **Near-Term Goal**
 - To Become a Ph.D. Physics Candidate
- **Objectives**
 - Pass the Qualifying Examination
 - Conduct Original Research
 - Publish Articles in Peer Reviewed Journals

My Ideas on the Perception of Women of Color in STEM Fields

- Critical to bringing diverse and unique approaches to STEM fields**
- Needed to assist other women and/or girls of color in participating in a STEM fields**
- Deserving of educational and research opportunities to contribute to the STEM fields**
- Evolving just as the STEM fields in which they study, teach, or research**
- Generally there is an undeveloped perception of women of color in STEM fields**

Potential Future Opportunities

(To be employed in government or industry while serving as a mentor to future scientists)

- **Government**

- **Active Sensor Systems Branch**

- NASA Langley Research Center
Langley AFB, VA

- **Space Science Division**

- Naval Research Laboratory
Washington, DC

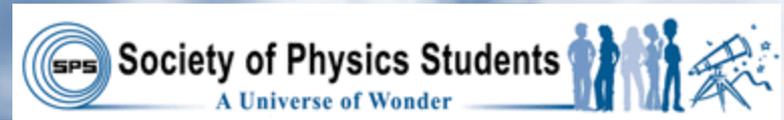


- **Industry**

- **Earth and Space Science**

- Science and Technology Corporation
Hampton, VA





A Heartfelt Thank You!



TERC

Technical Education Research Centers (TERC)

Committee on Equal Opportunities in Science and Engineering (CEOSE)

Office of Integrative Activities (OIA)

National Science Foundation (NSF)



National Science Foundation
OFFICE OF
Integrative Activities (OIA)

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