

**Sixth Annual NC OPT-ED Alliance Day**

Friday, September 28, 2007

Greensboro Coliseum Complex • Greensboro, NC

ORAL ABSTRACT AGENDA: 2:00pm-3:30pm

LOCATION	PRESENTER	School	TIME
Meeting Room 5	Christa Charisse Goldman <i>Structural Basis of Eglin C's Conformational Dynamics</i>	Charles E. Jordan High School	2:00PM
	Amanda Reams <i>The Development of a Hydrothermal Method for Synthesizing Zinc Oxide (ZnO) Nanowires and Nanoflowers</i>	Chapel Hill High School	2:15PM
	Kenny Esho <i>Effects of Mechanical Stretch on Fetal Lung Type II Epithelial Cells</i>	North Carolina Agricultural and Technical State University	2:40PM
	Ashley N. Pierce <i>The Effect of 24 Hour Chronic Exposure to 50 mM EtOH on T-type Ca²⁺ Current Expressed in 293 Cells</i>	Winston-Salem State University	3:00PM
	Jennifer R. Kiger <i>Analysis of Anionic Acids Related to Oxalate Metabolism in Human Erythrocytes</i>	Wake Forest University Health Sciences	3:30PM
	Meeting Room 6	Carlos Fonseca <i>Optimal Conditions for Yellow Fever Virus cDNA Production</i>	Millbrook High School
Shaun Fulton <i>Biophysical Analysis of Proteins in Complex Mixtures; Experimentation with SPROX</i>		Parkland High School	2:15PM
Naima G Sharaf <i>Using Pressure Perturbation Calorimetry to Explore the Thermodynamics of Alpha Helix formation</i>		University of North Carolina at Chapel Hill	2:30PM
Christopher O. Barnes <i>Quantifying the Stability of Chymotrypsin Inhibitor 2 Under Macromolecular Crowded Conditions</i>		University of North Carolina at Chapel Hill	2:45PM
Mookesh Dhanasar <i>Radioisotope Space Nuclear Power Systems</i>		North Carolina Agricultural and Technical State University	3:00PM
Meeting Room 3A		Michael Logan <i>Electrospinning and Characterization of Polyethylene Oxide (core) Chitosan (sheath) Nanofibers</i>	William G. Enloe High School
	Rachel Costin <i>Enhancing the Separation of Pseudoephedrine Enantiomers Using Reverse Phase Liquid Chromatography</i>	Southern High School	2:15PM
	Melony Achieng Ochieng <i>The Heat of Formation of Iodoethylene Studied by Threshold Photoelectron Photoion Coincidence Spectroscopy</i>	Charles E. Jordan High School	2:30PM
	David Bell Jr. <i>Parallel High Precision Arithmetic</i>	Fayetteville State University	2:45PM
	Amit P. Sawant <i>Basic Fundamentals of Visualization</i>	North Carolina State University	3:00PM
	Timothy D Campbell <i>Web 2.0 Site Development: Xwiki</i>	Winston-Salem State University	3:15PM
Meeting Room 3B	Evangeline Lea McDonald <i>The Effects of the Overexpression of Mitochondrial LepA on the Growth of E. coli cells</i>	East Chapel Hill High School	2:00PM
	Melanie Wiley <i>The Effects of Reaction Conditions on Alexa Fluor Labeling of ?-Synuclein</i>	North Carolina School of Science and Mathematics	2:15PM
	Chuck Anumud <i>Database and Control Algorithms Design for iSpace</i>	North Carolina State University	2:30PM
	William Thomas <i>Topic Maps and Semantic Webbing for Virtual Art Gallery</i>	Winston-Salem State University	2:45PM
	Cristan Brown <i>Re-designing TM4L to a Plug-in Based Architecture</i>	Winston-Salem State University	3:00PM

Meeting Room 4A	Allison D. Townes	William G. Enloe High School	2:00PM
	<i>Binding of Perfluorinated Compounds to Human Serum Albumin (HSA): A Molecular Modeling Study</i>		
	Camille McGirt	Hillside High School	2:15PM
	<i>Synthesis of Pyrene and Fluoranthene Polycyclic Aromatic Hydrocarbons to Quinones and Catechols, and Toxicity of Microbial Biodegradation Metabolites Products (A Two Year Study)</i>		
	Benjamin Moore	North Carolina Agricultural and Technical State University	2:30PM
<i>Man made Limestone and Granite Composites</i>			
	Ashley J. McBryde	North Carolina Agricultural and Technical State University	2:45PM
<i>Nano Technology Drop-On-Demand Biomedical Applications</i>			
	George Khan	North Carolina State University	3:00PM
<i>Investigating a Low Cost SNP Genotype Method</i>			
Meeting Room 4B	Brandon Franklin Young	William G. Enloe High School	2:00PM
	<i>Finding Activators for an Inactive Procaspase-3 Protein</i>		
	Charnelle Wilson	Saunderson High School	2:15PM
	<i>Effects of Dicyclopropenylmethylxane on the Counteracting Responses of Ethylene in Musa Paradisiaca</i>		
	Amanda L. Traud	University of North Carolina at Chapel Hill	2:30PM
	<i>Facebook Communities Through Eigenvectors</i>		
	Claudia Falcon	University of North Carolina at Chapel Hill	2:45PM
<i>Falling Sphere through Stratified Corn Syrup</i>			
	Donovan Bradley	North Carolina Central University	3:00PM
<i>SPV Assistant Revamped</i>			
Meeting Room 1A	Shara Weaver	Josephine Dobbs Clement Early College High School	2:00PM
	<i>The Effect of Neural Firing Frequencies and Cocaine on Dopamine Concentrations in the Nucleus Accumbens</i>		
	Jharrison Gillespie	Hillside High School	2:15PM
	<i>The Effect of Templates on the Formation of Hydrazones</i>		
	T. Simin Hall	University of North Carolina at Greensboro	2:30PM
	<i>The Impact of Feedback on Improving Problem-Solving Skills in On-line Learning Environment</i>		
	Samuel Hume	North Carolina State University	2:45PM
<i>Plant Monitoring System with Time Lapse Photography</i>			
	Steven M. Hannah	North Carolina Agricultural and Technical State University	3:00PM
<i>Automatic Target Recognition</i>			