



Department of Polymer Science
Summer Intern Program

2004 SYMPOSIUM POSTER PRESENTATIONS

Dapo Akingbade, CWRU & Fisk University, *Enzymatic Oxidation of Lignin Derivatives: Guaiacol and Vanillin*

Gregory Burg, UAkron & Washington & Jefferson College, *Exploring the Protein-Glass Analogy: Quenching Effect*

Mark Burnworth, Case Western Reserve University, *Aggregation Kinetics in Photoluminescent Polymer Blends*

Brandy Courneya, UAkron & Rose-Hulman Institute of Technology, *Synthesis of Model Tetraterpyridine Porphyrin Metal Complex*

Jessica DeQuach, Case Western Reserve University, *Monte Carlo Simulations of Particle Motion in Microchannels Due to Diffusion and Convection*

Andrew Detwiler, Case Western Reserve University, *High Performance Polymers in POSS Nanocomposites*

Camden Ertley, The University of Akron, *Properties of Polymers During Electrospinning*

Matthew D. Gawryla, CWRU & Rochester Institute of Technology, *Thermosetting Resins from Natural Products*

Laurie Hanne, UAkron & Washington & Jefferson College, *Surface Freezing of Comb Polymers*

Aaron L. Hartley, The University of Akron, *Synthesis of Functionalized Hexagonal Terpyridine Macrocyclic Complexes*

Kendra Hill, The University of Akron, *Enhancing Raman Spectroscopy Using a Modified Metal Tip: Seeing Chemistry on the Nanoscale*

Dustin House, CWRU & Ohio Northern University, *The Effect of POSS Blending on the Abrasion Resistance of Atactic and Syndiotactic Polystyrene and Cellulose Propionate*

J. Casey Johnson, Case Western Reserve University, *Synthesis and Optical Properties of Metallo-Supramolecular Polymers*

Koji Masuda, UAkron & Mount Union College, *Determination of the Glass Transition Temperature of Polystyrene from Molecular Dynamics Simulations*

James Mendez, CWRU & Rose-Hulman Institute of Technology, *Color Changes in Photoluminescent Polymer Blends*

Melissa Moneysmith, Ohio Northern University, *Trial Testing of ONU - Functional Electrical Stimulation Device*

Steve Nixon, Kent State University & Calif. State University, *Methods of Photonic Crystal Fabrication*

Kwadwo Owusu-Sarfo, CWRU & Claflin University, *Evaluation of Water Content in Poly(phenylene sulfonic acid)s for its Application in PEMFC's*

Brent Reed, Case Western Reserve University, *Characterization of a New Class of Polyelectrolytes, Polyphenylene Sulfonic Acids and its Copolymers, as Proton Exchange Membranes for PEMFC's*

Alene Sargeant, Ohio Northern University, *Pathophysiological Aspects of Hip Implants*

Katherine Shaw, Ohio Northern University, *Muscle Physiology of FES Recipient - A Review*

Jaclyn Shuman and Rebecca Taylor, The University of Akron, *Improving Biopolymer Production with PH Sensitive Polymeric Surfactants*

Tremeshia Waters, UAkron & Mississippi Valley State University, *Characteristics Ratios and Dipole Moments of Flexible Polar Macromolecules*

Clifton Watkins, UAkron & Mississippi Valley State University, *Characteristics of Electrospun Carbon Nanofibers*

William Wilson, Ohio Northern University, *Mechanical Testing of a Cell and Tissue*

Elliot Yamaguchi, Case Western Reserve University, *Tris(styrene)Pt(0) as a Fuel Cell Catalyst Precursor*