2011 Schoenborn Graduate Research Symposium

Coffee 8:00 – 8:30 AM

Oral Presentations 8:30 – 10:00 AM

8:30 AM	**Sara Arvidson (https://www.cbe.ncsu.edu/wp-content/uploads/2016/07/3.png)** *Role of the Interface in Tailoring Properties of Polypropylene/Poly(lactic acid) Fibers*
9:00 AM	**Hyung-Jun Koo** *A New Class of Aqueous Soft Matter Based Photovoltaic Devices*
9:30 AM	**Prutesh Vargantwar** Solvated Block Copolymer Networks: Bridging Gaps in EAP Technology

COFFEE BREAK 10:00 – 10:30 AM

Oral Presentations 10:30 AM – 12:00 PM

10:30 AM	**Ravish Malik (https://www.cbe.ncsu.edu/wp-content/uploads/2016/07/2.png)** Protein-like copolymers (PLCs) as Compatibilizers for Polymer Blends
11:00 AM	**Christopher Bonino** (https://www.cbe.ncsu.edu/wp-content/uploads/2016/07/1.png) Composite Tin Oxide-Carbon Electrospun Nanofibers for Lithium-Ion Batteries
11:30 AM	**Mahmud Hussain** Binding proteins derived from a "super-library" of hyperthermophilic protein scaffolds

Lunch 12:00 – 1:00 PM

Poster Session 1:00 – 2:30 PM

Shoeb Ahmed

Poly(vinylmethylsiloxane) Elastomer Networks as Novel Functional Materials for Cell Adhesion and Migration Studies

Joshua Allen

Crystal Structure and Physical Properties of Lithium Difluoro(oxalato)borate (LiDFOB)

Xiaojing Cai

Positioning, Aggregation and Interfacial Modification of Microgel Nanoparticles in Polymer Nanolaminates

Jeff Ford

Catalytic Deoxygenation of Cyanobacteria-derived Free Fatty Acids for the Production of Second Generation Biofuels

Andrew Frock

Carbohydrate utilization by hyperthermophilic *Thermotoga* species

Cathy Fromen (https://www.cbe.ncsu.edu/wp-content/uploads/2016/07/2.png)

Engineered PRINT Aerosols for Pulmonary Drug Delivery

Casey Galvin

Heteropolymers with Adjustable Monomer Sequences

Bo Gong

Controlled Porosity and Structure In Nanoporous Metal Oxide Monoliths by Sacrificial Vapor Phase Infiltration of Polyesters

Mohammad Hassan

Nano-meltblown fibers for filtration application

Feng He

Interfacial Microstructure and Properties of Side-by-Side Bicomponent Polymer Fibers

Liangliang Huang

DFT Study of Dissociative Adsorption of H_2S on Defective Carbon Substrates

Heath Johnson

Parsing the Roles of PI3K and Rac in Fibroblast Migration

Do Han Kim

Dye-Sensitized Solar Cell Based on a TiO_2 Coated Nonwoven Quartz Fiber Mat

Mohamad Khan

Frequency Reconfigurable Fluidic Antenna

Stephanie Lam

Magnetically Responsive Pickering Foams

Ying Liu

Improving Light Harvesting in Organic Solar Cells using Buckled Topography

Zhuo Liu

One step purification of human immunoglobulins A, G, and M from Cohn Fraction II/III by small peptide affinity chromatography

Josh McClure (https://www.cbe.ncsu.edu/wp-content/uploads/2016/07/3.png)

Graphene-like materials for electrocatalyst supports prepared by plasma-assisted Nitrogen doping

Arpan Mukherjee

Whole genome transcriptional response of thermoacidophilic archaea to Uranium stress

Johnny Maury-Evertsz

Multi-scale development of an intermediate-resolution DNA model for biological applications

Erin M. Phelps

Computer Simulation of Protein Aggregation Kinetics Using an Intermediate Resolution Model

Prasenjit Sarkar

Analysis of Trophectoderm Differentiation Dynamics using SILAC

Daniel Seo

A "Looking Glass" into Electrolyte Properties: Acetonitrile-Lithium Salt (AN-LiX) Mixtures

Rachita Sharma (https://www.cbe.ncsu.edu/wp-content/uploads/2016/07/1.png)

Self-Propelling Particles based on microchip components, gels and live cells

Ju-Hee So

Quasi-Liquid Memristors as Prototypes of All-Soft Matter Circuits