

Graduate Awards

Computational and Experimental Materials Science

Grand Prize

Sihui He (CREOL, UCF)

"LIQUID CRYSTAL-BASED BIOSENSORS FOR THE DETECTION OF CHOLIC ACID"

Second Prize

Anh Ly (NSTC/AMPAC, UCF)

"PROBING THE CELLS-NANOPARTICLES INTERACTION USING FORCE-DISTANCE (F-D) SPECTROSCOPY"

Third Prize

Imen Rezadad (Physics, UCF)

"REPULSIVE ELECTROSTATIC FORCE IN MEMS CANTILEVER"

Honorable Mention

Héctor J. Rivera-Jacquez (NSTC/Chemistry, UCF)

"DESIGN OF TWO-PHOTON EXCITED PHOSPHORESCENT SENSOR FOR OXYGEN IMAGING"

Energy-Related Materials

Grand Prize

Zenan Yu (CREOL/NSTC, UCF)

"LARGE-AREA, FLEXIBLE NANOSTRUCTURED ELECTRODES FOR ENHANCED SUPERCAPACITOR PERFORMANCE"

Second Prize

Matthew McInnis (NSTC/Chemistry, UCF)

"FUNCTIONAL GRAPHENE AEROGELS"

Third Prize

Eric Schneller (FSEC/CREOL, UCF)

"THE EFFECT OF FILM PROPERTIES AND LASER PROCESSING PARAMETERS ON THE LASER ABLATION OF MOLYBDENUM THIN FILMS"

Honorable Mention

Le Zhou (MSE, UCF)

"MARTENSITIC TRANSFORMATION AND DIFFUSION BEHAVIOR IN NICKEL MANGANESE GALLIUM ALLOYS"

Materials Processing and Characterization

Grand Prize

Sheng Po Fang (Electrical and Computer Engineering, UF)
"HIGH-ASPECT-RATIO CARBON NANOFIBROUS MICROELECTRODE ARRAY"

Second Prize

Yueh-Ling Hsieh (Chemical Engineering, UF)
"EFFECT 340keV PROTON IRRADIATION ON DC PERFORMANCE OF CIRCULAR-SHAPED AlGaIn/GaN HIGH ELECTRON MOBILITY TRANSISTORS"

Third Prize

Megan Berroth (NSTC, UCF)
"SYNTHESIS AND STUDY OF CORE-SHELL ZINC SILICA NANOPARTICLES"

Honorable Mention

Janardan Nath (Physics, UCF)
"OPTICAL SALISBURY SCREEN WITH DESIGN-TUNABLE RESONANT ABSORPTION BANDS"

Shun Li (Chemical Engineering, UF)

"ENHANCEMENT OF ALGAN/GAN HIGH ELECTRON MOBILITY TRANSISTORS OFF-STATE DRAIN BREAKDOWN VOLTAGE VIA BACKSIDE PROTON IRRADIATION"

Ankur Gupta (AMPAC, NSTAC, UCF)

"TAILORING ANTIOXIDANT ACTIVITY BY TUNING THE SURFACE CHEMISTRY OF CERIUM OXIDE NANOPARTICLE"

Undergraduate Awards

Grand Prize

Rameech McCormack (MAE/NSTC, UCF)
"CERIA'S OXIDATION STATE DEPENDENT PHOSPHATE ION INTERACTION AND ITS BIOLOGICAL IMPLICATION"

Second Prize

Manuel Giraldo (AMPAC/NSTC/Burnett, UCF)
"PHOTOELECTROCHEMICAL ANALYSIS OF NANOSTRUCTURED TITANIUM OXIDE CONJUGATED TO ORGANIC MOLECULES FOR HYDROGEN EVOLUTION"

Third Prize

Qing Wang (Physics/NSTC, UCF)
"FUNCTIONALIZATION OF SINGLE-LAYER MOLYBDENUM DISULFIDE WITH PEPTIDES"

Honorable Mention

Kaelyn Badura (High Performance Materials Institute, FSU)
"FABRICATION OF GRAPHENE NANORIBBONS USING LASER TECHNOLOGY"

Julian Ortiz (AMPAC/MMAE/NSTC, UCF)

"STUDY OF ACTIVE SITES ON INDIVIDUAL REDOX ACTIVE NANOPARTICLE"

Rikhav Shah (NSTC/UCF)

"DETECTION OF COPPER CONTAMINATION IN DRINKING WATER USING LIGAND COATED CdS:Mn/ZnS QUANTUM DOTS"