

STUDENT POSTER AWARD WINNERS YEAR 2015

Seventy posters were judged at the 2015 Annual Symposium.

Graduate Awards

Computational and Experimental Materials Science

Grand Prize

Anupama Yadava, UCF

"IMPACT OF GAMMA-IRRADIATION ON ELECTRONIC PROPERTIES OF ALGaN/GaN HIGH ELECTRON MOBILITY TRANSISTORS"

Second Prize

Le Zhou, UCF

"INTERDIFFUSION, MARTENSITIC TRANSFORMATION AND MECHANICAL PROPERTIES OF NICKEL MANGANESE GALLIUM ALLOYS"

Third Prize

Shashank Saraf, UCF

"ANTI-BIOFOULING SURFACE OF NANOPOROUS GOLD FOR BIOMEDICAL DEVICES"

Honorable Mention

Zahra Hooshmand-Gharehbagh, UCF

"CO ADSORPTION ON Pd(111) AT 0.5ML: A DFT STUDY"

Imen Rezadad, UCF

"ENERGY-DISPERSIVE X-RAY SPECTROSCOPY SIMULATION FOR MONOLAYER DIFFUSED MATERIALS IN 22 NM GATE STRUCTURE"

Abraham Vazquez-Guardado, UCF

"HYBRID PLASMONIC-PHOTONIC SYSTEMS FOR ENHANCEMENT OF LIGHT-MATTER INTERACTION"

Energy-Related Materials

Grand Prize

Zenan Yu, UCF

"ELECTRICAL CABLES THAT STORE ENERGY?"

Second Prize

Matthew McInnis, UCF

"GRAPHENE CRYOGELS FOR ENERGY STORAGE AND CONVERSION"

Third Prize

Abhishek Mehta, UCF

"INTERDIFFUSION AND REACTION IN BINARY AL VS. ZR AND TERNARY AL-SI VS. ZR DIFFUSION COUPLES"

Honorable Mention

Nagendra Dhaka, UCF

"Pd/W (110) AS A HIGHLY CO TOLERANT ELECTROCATALYST FOR HYDROGEN OXIDATION: INSIGHT FROM FIRST PRINCIPLES"

Materials Processing and Characterization

Grand Prize

Narae Kang, UCF

"TEMPERATURE DEPENDENT INVESTIGATION ON SUB-100NM CHANNEL ORGANIC FIELD-EFFECT TRANSISTORS WITH GRAPHENE ELECTRODES"

Second Prize

Swetha Barkam, UCF

"CERIA INTEGRATED SILK FIBROIN-PLGA BIOACTIVE 3D SCAFFOLD FOR TISSUE REGENERATION"

Third Prize

Xiaochen Wang, UCF

"NANOFIBROUS COBALT SENSOR FOR PHOSPHATE SENSING"

Honorable Mention

Jinan Deng, UCF

"DESIGN OF B-CD/SURFACTANT COMPLEX-COATED LIQUID CRYSTAL DROPLETS FOR THE DETECTION OF CHOLIC ACID VIA COMPETITIVE HOST-GUEST RECOGNITIONS"

Ankur Gupta, UCF

"SIZE DEPENDENCE OF ELECTROCHEMICAL RESPONSE OF MOLYBDNIUM DISULFIDE FOR NITRIC OXIDE RADICALS DETECTION"

Shihyun Ahn, UF

"INVESTIGATING THE EFFECT OF PROTON IRRADIATION ON DC PERFORMANCE OF ALGAN/GAN METAL-OXIDE SEMICONDUCTOR USING AL₂O₃ AS GATE DIELECTRIC"

Undergraduate Awards

Grand Prize

Rameech McCormack, UCF

"IMPROVING ROOM TEMPERATURE HYDROGEN DETECTION WITH THE USE OF NANOSTRUCTURED TIN OXIDE"

Second Prize

Eric Calkins, UCF

"NANOSCALE CHARACTERIZATION OF SOFT MATTER USING NOVEL AFM TECHNIQUES"

Third Prize

Antonia Bass, UCF

"SYNTHESIS AND CHARACTERIZATION OF METAL-CONJUGATED MICROBICIDAL CHITOSAN NANOPARTICLES"

Honorable Mention

David Fox, UCF

"THERMOSET AND THERMOPLASTIC POLYMER NANO-COMPOSITES OF EDGE-FUNCTIONALIZED GRAPHENE OXIDE"

Sebastien Benoit, UCF

"MAGNETIC FIELD EFFECT ON CONVECTIVE FLOW STRUCTURES IN MAGNETIC FLUIDS"

Preeti Kumrah, UCF

"FIXED QUAT: AN ATTRACTIVE ALTERNATIVE TO COPPER (Cu) BIOCIDES"