

Student Poster Awards

The student poster awards include 9 cash prizes for graduate students in three categories:

- Materials Science
- Materials Processing
- Materials Characterization

and 3 cash prizes for undergraduate students as well as Honorable Mentions

Award Winners Year 2005

Seventy six posters were presented and judged at the 2005 Annual Symposium.

Graduate Awards

Materials Science

Grand Prize

Ling Miao, USF

"Molecular Dynamics Simulation of Melting and Structural Evolution of Graphite-Supported Palladium Nanoclusters"

Second Prize

Sephalika Senapati, UCF

"Nanoscale Lamellar Structure in Al-Ag Alloys"

Third Prize

Chandrasen R. Rathod, UCF

"Characterization of Residual Strain Fields in Welded Inconel-718 for NASA Space Shuttle Flow Liners"

Honorable Mention

Georgui Bourov, UCF

"Effect of Amphiphilic Geometry on Phase Separation and Micellization: Brownian Dynamics and Monte Carlo Simulations"

Subramanian Sankaranayanan, USF

"Molecular Dynamics Simulation Study of Melting of Supported and Unsupported Pd-Pt Bimetallic Nanoclusters"

Materials Processing

Grand Prize

Joshua Schumacher, USF

"Integration of Carbon Nanotubes into Device Structures"

Second Prize

Hsiu-Hsin Chung, UF

"Manufacturing and Testing of Dual-Wavelength Photon Sieves"

Third Prize

Upendra Avachat, UCF

"Development of P-Type, Transparent and Conducting Back Layer for CdS/CdTe Thin Film Solar Cells for PEC Application"

Honorable Mention

SooHwan Jang, UF

"InGaAs Metal-Semiconductor-Metal Optoelectronic Mixers for Eye-Safe Ladar Applications"

Byoung Sam Kang, UF

"Gateless AlGaIn/GaN HEMT Response to Halide Ions"

Arkadiy Lyakh, UF

"Design and Realization of MOCVD-Grown GaAs-Based Intrasubband Light Emitting Devices Operating at 4.7 μm "

Ankur A. Kadam, UCF

"Development of CIGS and CIGSS Thin Film Solar Cells"

Materials Characterization

Grand Prize

Umesh Patil, UCF

"Fe-Based Bulk Metallic Glasses by Mechanical Alloying"

FEI Second Prize

Luis K. Ono, UCF

"Gas-Phase Catalytic Processes on Metal Nanoclusters"

FEI Third Prize

Shih-Kun Liu, UF

"Laser Diode Epiwafer Characterization Using Liquid Contact Luminescence and Photoluminescence"

Honorable Mention

Krishnan Srinivasan, USF

"Tobacco Mosaic Virus as New Surface Acoustic Wave Chemical Sensor Material"

Sachin Bet, UCF

"Polycrystalline Silicon Thin Film from Silicon Nanoparticles"

Soo Yeon Seo, UF

"Liquid-Phase Synthesis of YVO₄:Er Nanoparticles"

Yuanjie Li, UF

"Realization of Phosphorus-Doped P-Type (Zn,Mg)O Thin Films via Pulsed Laser Deposition"

Undergraduate Awards

Grand Prize

Anthony Cascio, USF

"Design and Construction of an Electrospray Ionization System for Nanoscale Patterning of Macromolecules"

Second Prize

Bryan DeBono, NCF

"Raman Spectroscopy of Pbl2 Filled Double Wall Carbon Nanotubes"

Third Prize

Maria Dienerowitz, UCF

"Theoretical Analysis of Negative Index Material"

Honorable Mention

Alfred L. Keller, UCF

"Evanescent Wave Raman Spectroscopy of Bacteriorhodopsin on Gallium Nitride Waveguide Structures"

April Pope, UCF

"Chalcogenide Waveguide Structures as Substrates and Guiding Layers for Evanescent Wave Spectroscopies of Bio-Assemblies"

Enrique G. Ortiz, UCF

"Preparation of Size Selected Au Nanoparticles Using Inverse Diblock CoPolymer Micelles"

Patrick Chiu, UF

"Properties of C12tab Surfactants and Miscelles Using Molecular Dynamics Simulations"