

Student Poster Awards

The student poster awards include 9 cash prizes for graduate students in 3 categories:

- Materials Science
- Physical Science
- Materials Characterization

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

Award Winners Year 2003

Sixty posters were presented and judged at the 2003 Annual Symposium.

Graduate Awards

Materials Science

Grand Prize

Hsiu-hsin Chung, UF

"Enhancement of Solar Cell Performance Using Organic Light Converter"

Second Prize

Swetha C. Thagella, USF

"Study of Tribological Properties and Modeling of Removal Rate of Low-K Films in Chemical Mechanical Planarization"

Third Prize

Hyeokjin Lee, UF

"Nanocrystalline and Organic Composite Phosphors for White LED's"

Honorable Mention

Hyun Jong (Joseph) Park, UF

"Calculated Dislocation and Strain Energy of Hexagonal Epitaxial Thin Films"

Ryan P. Davies, UF

"Thermal Stability of Dilute Magnetic Semiconductors"

Lena Lopatiuk, UCF

"Development of Peptides with Specific Binding to Carbon Nanoparticles"

Zhenquig Xu, USF

"Nanocrystalline Diamond Thin Films Deposited by Microwave Plasma Chemical Vapor Deposition"

Parshuram B. Zantye, USF

"Analysis of the Defects during the Implementation of Cu-Ultra Low K Damascene Structures"

Physical Sciences

Grand Prize

Ajay Kale, UF

"Infrared Electroluminescent Zinc Sulphide:Rare Earth Doped Thin Film Devices"

Second Prize

Robert R. Owings, UF

"The Effects of Lithium on Electrical Conductivity of Nickel Cobalt Oxides"

Third Prize

Vivek S. Gade, UCF

"Development of Ti/SiO₂ Substrates for Preparation of CuIn_{1-x}Ga_xS₂ Thin Film Solar Cells for Space Applications"

Honorable Mention

Rachael Myers, USF

"Epitaxial Growth of 3C-SiC on Novel Si Substrates"

Swanand D. Patil, UCF

"Nanocrystalline Oxide Thin Films for Oxygen Sensor"

Jodie G. Pope, USF

"Novel All Solid-State SiC Hydrogen Sensor for Extreme Applications"

Inkook Jang, UF

"Molecular Dynamics Simulation Study of Continuous Fluorocarbon Ion Depositions on Polystyrene Surfaces"

Ki-Ho Lee, UF

"Atomistic Simulations of the Non-Equilibrium Flow of Gases through Carbon Nanotubes"

Roy Gargagliano, USF

"Band Line-Up of 4H-SiC Schottky Interfaces Measured with Photoemission Spectroscopy"

Materials Characterization

Grand Prize

Keechan Kim, UF

"The Growth of Gallium Nitride on Silicon Using a ZnO Buffer Layer"

Second Prize

Narada M. Bradman, UF

"Performance and Modes of Failure in an Artificial Eyelid"

Third Prize

Thierry A. Dubroca, UF

"Development of a Fractal Tool for the Structural Study of Spark Processed Silicon"

Honorable Mention

Pallavi Shukla, USF

"Mechanical and Surface Characterization of Cu Interconnect Thin Films"

Stanley K. Maina, UCF

"Buried Impurity Detection by Heavy Ion Backscattering Spectrometry"

Seokhyun Yoon, UF

"Epitaxial Growth of CuInSe_2 on GaAs (100)"

William Burdett, UCF

"Physics of Electron Injection-Induced Defects in III-Nitrides"

Undergraduate Awards

Grand Prize

Judith J. Wehling, UCF

"Adhesion Molecules in Tumor Metastasis: Role of Soluble Fibrin and Shear Stress"

Second Prize

Andrew P. Warren, UCF

"Characterization of the Etching Plasma Beam in Gatan's PECS+RIBE 682"

Ryan P. Davies, UF

Thermal Stability of Dilute Magnetic Semiconductors"

Honorable Mention

Chris Braunagel, USF

"Electrospray Assisted In Situ Preparation of Polymer Thin Films and Characterization by Photoelectron Spectroscopy"

Forrest R. Rughe, UCF

"Installation and Commissioning of a Sputtering System for ZnO Thin Film Deposition"

** Ryan Davies was initially judged as a graduate student (Honorable Mention in Materials), however he submitted as an undergraduate (error of session chair) and was awarded a 2nd place in undergraduate after subsequent review.