

**The Program Committee of the 2013 Annual Joint Symposium  
of the  
Florida Chapter of the American Vacuum Society,  
and Florida Society for Microscopy**

**Presents a  
Grand Prize in Computational and Experimental  
Materials Science**

**to  
Alamgir Kabir**  
from University of Central Florida

for the poster titled  
**“MAGNETIC PROPERTIES OF Fe AND Fe-Pt  
NANOPARTICLES: APPLICATION OF THE DFT-  
INHOMOGENEOUS-DMFT APPROACH”**

March 4-5, 2013

**The Program Committee of the 2013 Annual Joint Symposium  
of the  
Florida Chapter of the American Vacuum Society,  
and Florida Society for Microscopy**

**Presents a  
Second Prize in Computational and Experimental  
Materials Science**

**to**

**Udai Bhanu**

from University of Central Florida

for the poster titled

**“REDUCTION OF INPUT POWER DURING SEQUENTIAL  
ELECTRICAL BREAKDOWN OF ALIGNED ARRAY OF  
CARBON NANOTUBES”**

March 4-5, 2013

**The Program Committee of the 2013 Annual Joint Symposium  
of the  
Florida Chapter of the American Vacuum Society,  
and Florida Society for Microscopy**

**Presents a  
Third Prize in Computational and Experimental  
Materials Science**

**to**

**Syed Shah**

from University of Central Florida

for the poster titled

**“DIFFUSION OF SMALL Ni AND Cu CLUSTERS ON Ni (111):  
APPLICATION OF SLKMC-II”**

March 4-5, 2013

**The Program Committee of the 2013 Annual Joint Symposium  
of the  
Florida Chapter of the American Vacuum Society,  
and Florida Society for Microscopy**

**Presents a  
Honorable Mention in Computational and  
Experimental Materials Science**

**to  
Neha Nayyar**  
from University of Central Florida

for the poster titled  
**“TUNING PLASMON AND EXCITON EXCITATIONS IN  
TRANSITION-METAL DOPED ARRAYS OF NOBLE-METAL  
NANOCHAINS”**

March 4-5, 2013

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**Presents a  
Honorable Mention in Computational and  
Experimental Materials Science**

**to  
Maral Aminpour**  
from University of Central Florida

for the poster titled  
**“FIRST-PRINCIPLE INVESTIGATION OF THE STABILITY  
AND VIBRATIONAL SPECTRUM OF MoS<sub>x</sub>  
NANOSTRUCTURES GROWN ON Cu(111)”**

March 4-5, 2013

**The Program Committee of the 2013 Annual Joint Symposium  
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Florida Chapter of the American Vacuum Society,  
and Florida Society for Microscopy**

**Presents a  
Grand Prize in Energy-Related Materials  
to**

**Matthew McInnis**  
from University of Central Florida

for the poster titled

**“CONJUGATED POLYMER SUPRAMOLECULAR  
STRUCTURES ON GRAPHENE FOR ORDERED  
HETEROJUNCTION SOLAR CELLS”**

March 4-5, 2013

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and Florida Society for Microscopy**

**Presents a  
Second Prize in Energy-Related Materials  
to**

**John Mudrick**  
from University of Florida

for the poster titled

**“TANDEM SMALL MOLECULE ORGANIC SOLAR CELLS  
WITH BROAD SPECTRAL RESPONSE AND HIGH OPEN-  
CIRCUIT VOLTAGE”**

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and Florida Society for Microscopy**

**Presents a  
Third Prize in Energy-Related Materials  
to**

**Yuyin Xi**  
from University of Florida

for the poster titled

**“STUDY OF HYDROGEN DETECTION RESPONSE TIME WITH  
Pt-GATED AlGaN/GaN BASED DIODES”**

March 4-5, 2013



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**Presents a  
Honorable Mention in Energy-Related Materials  
to**

**Narae Kang**  
from University of Central Florida

for the poster titled

**“CARBON NANOTUBE THIN FILM TRANSISTORS USING  
CARBON NANOTUBE ELECTRODES”**

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**Presents a  
Honorable Mention in Energy-Related Materials  
to**

**Barrett Hicks**  
from University of Florida

for the poster titled

**“NOVEL APPROACHES TO IMPROVED TRANSPARENT  
CONDUCTING OXIDES”**

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and Florida Society for Microscopy**

**Presents a  
Honorable Mention in Energy-Related Materials  
to**

**Binh Tran**

from University of Central Florida

for the poster titled

**“ADHESIVE PEG-BASED BINDER FOR AQUEOUS  
FABRICATION OF THICK LITHIUM-ION BATTERY  
ELECTRODES”**

March 4-5, 2013

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of the  
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and Florida Society for Microscopy**

**Presents a  
Grand Prize in Materials Processing  
to**

**Deep Panjwani**  
from University of Central Florida

for the poster titled

**“PATTERNING OF OXIDE-HARDENED GOLDBLACK BY  
STANDARD PHOTOLITHOGRAPHY AND METAL LIFT-OFF”**

March 4-5, 2013

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of the  
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and Florida Society for Microscopy**

**Presents a  
Second Prize in Materials Processing  
to**

**Janardan Nath**  
from University of Central Florida

for the poster titled

**“THIN-FILM, WIDE-ANGLE, DESIGN-TUNABLE, SELECTIVE  
ABSORBER FROM NEAR UV TO FAR INFRARED”**

March 4-5, 2013

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of the  
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and Florida Society for Microscopy**

**Presents a  
Third Prize in Materials Processing  
to**

**Astha Malhotra**  
from University of Central Florida

for the poster titled

**“NANOPARTICLES IN ELECTROSPUN POLYELECTROLYTE  
FIBERS”**

March 4-5, 2013

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and Florida Society for Microscopy**

**Presents a  
Honorable Mention in Materials Processing  
to**

**Farnood Rezaie**  
from University of Central Florida

for the poster titled

**“PLASMONIC MID-IR SPECTROMETER”**

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of the  
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and Florida Society for Microscopy**

**Presents a  
Honorable Mention in Materials Processing  
to**

**Maria Stancescu**  
from University of Central Florida

for the poster titled

**“PATTERNING CELLS WITH ALKYL SILANE MONOLAYERS”**

March 4-5, 2013



**The Program Committee of the 2013 Annual Joint Symposium  
of the  
Florida Chapter of the American Vacuum Society,  
and Florida Society for Microscopy**

**Presents a  
Grand Prize in Materials Characterization**

**to**

**Ming Wei**

from University of Central Florida

for the poster titled

**“MORPHOLOGICAL, STRUCTURAL, AND OPTICAL  
CHARACTERIZATION OF HIGH QUALITY HOMOEPITAXIAL  
ZnO FILMS FOR ULTRAVIOLET APPLICATION”**

March 4-5, 2013

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of the  
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and Florida Society for Microscopy**

**Presents a  
Second Prize in Materials Characterization  
to**

**Mahdi Ahmadi**

from University of Central Florida

for the poster titled  
**“SYNTHESIS, CHARACTERIZATION AND CATALYTIC  
ACTIVITY OF Pt NANOPARTICLES SUPPORTED ON  $\gamma$ -Al<sub>2</sub>O<sub>3</sub>:  
OXIDATION STATE EFFECTS”**

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and Florida Society for Microscopy**

**Presents a  
Third Prize in Materials Characterization  
to**

**Christopher McAleer**  
from University of Central Florida

for the poster titled

**“A BIO-MEMS DEVICE FOR MEASURING CONTRACTILE  
FORCES AND ENDURANCE OF CULTURED MYOTUBES ON  
MICROFABRICATED CANTILEVERS”**

March 4-5, 2013

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and Florida Society for Microscopy**

**Presents a  
Honorable Mention in Materials Characterization  
to**

**Jeremy Tharkur**  
from University of Central Florida

for the poster titled  
**“PROBING INTRA-CELLULAR DRUG RELEASE EVENT  
USING ACTIVATABLE (OFF/ON) CdS:Mn/ZnS QUANTUM  
DOTS (QDOT): SPECTROSCOPIC STUDIES TO INVESTIGATE  
INTERACTIONS OF QDOTS WITH QUENCHER”**

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**Presents a  
Honorable Mention in Materials Characterization  
to**

**Mikaeel Young**  
from University of Central Florida

for the poster titled

**“SYNTHESIS AND STUDY OF COPPER LOADED SILICA  
NANOMATERIALS”**

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**Presents a  
Honorable Mention in Materials Characterization  
to  
Lu Liu  
from University of Florida**

for the poster titled  
**“THE IMPROVEMENT OF THE RELIABILITY OF AlGa<sub>N</sub>/Ga<sub>N</sub>  
HIGH ELECTRON MOBILITY TRANSISTORS BY  
EMPLOYING DIFFERENT BUFFER STRUCTURES”**

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and Florida Society for Microscopy**

**Presents a  
Honorable Mention in Materials Characterization  
to**

**Evan Smith**

from University of Central Florida

for the poster titled

**“PERFORMANCE ESTIMATIONS FOR A RADIANT ENERGY  
IMAGER USING NULL SWITCHING”**

March 4-5, 2013

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Florida Chapter of the American Vacuum Society,  
and Florida Society for Microscopy**

**Presents a  
Grand Prize in Undergraduate Poster Competition  
to**

**Joseph Zuyus**  
from University of Central Florida

for the poster titled

**“COMPOSITE GRAPHENE AEROGELS FOR HYDROGEN  
SENSING AND CATALYSIS”**

March 4-5, 2013



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and Florida Society for Microscopy**

**Presents a  
Second Prize in Undergraduate Poster Competition  
to**

**Janet Mara**

from University of South Florida

for the poster titled

**“FABRICATION OF SILICA CORE SILVER SHELL  
NANOPARTICLE AS A SERS ACTIVE SUBSTRATE”**

March 4-5, 2013