INDUSTRY ADVISORY MEETING
PROGRAM
Materials Science & Engineering

April 27, 2016 | Live Oak Event Center, UCF Main Campus

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INDUSTRY ADVISORY MEETING

AGENDA

12:00 - 12:30 p.m.
Arrivals

12:30 - 2:00 p.m.
Lunch
Research Poster Review

2:00 - 4:00 p.m.
Dean’s Address to IAB
State of the Facts: MSE Dept.
Discussions with IAB Members

4:00 - 5:45 p.m.
Reception with the
ASM President
INAUGURAL INDUSTRY ADVISORY MEETING

BOARD

ALLISTER JAMES, PH.D.
Senior Expert-Materials, Siemens Energy, Inc.

Dr. James has expertise in high temperature materials and manufacturing for gas turbine components.

ISLAM SALAMA, PH.D.
Director- Substrate and Packaging Technology Development, Intel Corporation

Dr. Salama manages a global team of technologists, procurement, and manufacturing, responsible for delivering next generation packaging technologies. His team is focusing on next generation packaging architectures, technology building blocks, intellectual property management, and supplier development.

NATHANIEL R. QUICK, PH.D.

Dr. Quick established AppliCote Associates, LLC to develop laser-based technologies that enable the next generation of semiconductor devices.

AMARNAUTH SINGH, PH.D.

Dr. Singh is an expert in leading, building and positioning global scientists and engineers in developing technologies across fast-paced environments that have enabled change, driven innovation, increased sales, and elevated organizations as market leaders.

ASHLEY NICHOLS, M.B.A.

General Manager, 3D Material Technologies

Mr. Nichols started 3D Material Technologies, a new company within Arc Group Worldwide, or provide rapid prototyping, short run production and engineering consulting to support MIM operations.

WILLIAM E. SWARTZ, PH.D.

President and Chief Executive Officer Constellation Technology Corporation

Dr. Swartz possess extensive expertise in all areas of instrumental methods of chemical analysis.

BRENDA PRENITZER, PH.D.

President and CEO, NanoSpective

Dr. Prenitzer’s areas of expertise include structure-property relationships of materials, semiconductor technologies and advanced materials characterization using electron, ion, photon and mechanical probes.

DAVID VANDERPOOL

Sales Manager, SCHOTT North America Advanced Optics

Mr. Vanderpool is responsible for thin glass and wafers sales throughout North America. Market expertise includes semiconductor, biomedical, display, lighting, photo-voltaics, and energy storage.
RESEARCH POSTERS

OMAR AHMED
Advisor: Tengfei Jiang
Title: Thermal Stress Minimization for Harsh Environment Packaging and the Development of Novel Thermal Interface Materials

ANDREW BUFF
Advisor: Kathleen Richardson
Title: Engineering GRIN Profiles in Chalcogenide Glasses

YEJIE CAO & HAO LI
Advisor: Linan An
Title: Polymer-Derived Ceramics and Their Applications for High-Temperature Sensors

JINAN DENG
Advisor: Jiyu Fang
Title: Tailoring the Surface of Liquid Crystal Droplets with Chitosan/Surfactant Complexes for the Detection of Bile Acids

ANKUR GUPTA
Advisor: Sudipta Seal
Title: Carbon Nanostructure Reinforced Plasma Sprayed Composite Coatings for Enhanced Mechanical and Corrosion Protection Properties

CLARA HOFMEISTER
Advisor: Yongho Sohn
Title: Manufacturing and Mechanical Behavior of Aluminum Hierarchical Structural Materials

GOLAREH JALIVAND
Advisor: Tengfei Jiang
Title: Microstructure Evolution and Reliability Impact from Nano-interconnects to Through-Silicon Vias

MINH-CHAU LE
Advisor: Stephen Florczyk
Title: Overview of Research in Biomaterials for Tissue Engineering and Cancer Laboratory

CHAO LI
Advisor: Jyan Thomas
Title: Probing Ternary Solvent Effect in High VOC Polymer Solar Cells Using Advanced AFM Technique

DOUG NICHOLSON
Advisor: Raj Vaidyanathan
Title: Shape Memory Alloys

SAMUEL RHODES
Advisor: Jiyu Fang
Title: Synthesis of J-aggregate Nanotubes for Biosensor Applications

SHASHANK SARAF
Advisor: Sudipta Seal
Title: Enzyme-free Detection of Hydrogen Peroxide in Physiological Media Using a Novel Anti-biofouling Platform

CHEN SHEN
Advisor: Lei Zhai
Title: Conjugated Polymer Supramolecular Structures on Graphene

XIAOCHE N WANG
Advisor: H. J. Cho
Title: Hydrophobic Graphene-based Nanosensors for in-situ Monitoring of PAHs

THIWANKA WICKRAMASOORIYA
Advisor: Raj Vaidyanathan, Arvi Kar
Title: Reduced MRI Heating

LE ZHOU
Advisor: Yongho Sohn
Title: Interdiffusion, Martensitic Transformation and Mechanical Properties of NiMnGa Alloys
SPECIAL THANKS FOR MAKING THIS EVENT POSSIBLE:

Jodi Peters
Pamela Ross
Kari Stiles
Sudipta Seal