

STUDENT: Jo, Myeong Chan
ADVISOR(S): Guldiken, Rasim

[Continuous Electrowetting in Passivating and Non-passivating Systems](#)

STUDENT: Khodayari, Mehdi
ADVISOR(S): Crane, Nathan / Volinsky, Alex

Spring 2013

[Hydrogen Storage in Hypercrosslinked Polystyrene and Li-Mg-N-H Complex Hydride](#)

STUDENT: Demirocak, Dervis
ADVISOR(S): Kumar, Ashok / Stefanakos, E.K.

[Analytical and Numerical Modeling of Assembly Procedures of Steel Fulcra of Bascule Bridges](#)

STUDENT: Garapati, Sri Harsha
ADVISOR(S): Dubey, Rajiv / Kaw, Autar

[Analytical Modeling, Perturbation Analysis and Experimental Characterization of Guided Surface Acoustic Wave Sensors](#)

STUDENT: Onen, Onursal
ADVISOR(S): Guldiken, Rasim

Spring 2012

[The Creation of a Robotics Based Human Upper Body Model for Predictive Simulation of Prostheses Performance](#)

STUDENT: Lura, Derek
ADVISOR(S): Dubey, Rajiv

Fall 2011

[Regulation of Cell Adhesion Strength by Spatial Organization of Focal Adhesions](#)

STUDENT: Elineni, Kranthi Kumar
ADVISOR(S): Gallant, Nathan

[Interface Engineered Diamond Coatings for Dry Machining Applications](#)

STUDENT: Gomez, Humberto
ADVISOR(S): Kumar, Ashok

[Thermophysical Characterization of Nanofluids through Molecular Dynamic Simulations](#)

STUDENT: Shelton, John
ADVISOR(S): Pyrtle, Frank III

Summer 2011

[Theoretical and Experimental Analysis of Power and Cooling Cogeneration Utilizing Low Temperature Heat Sources](#)

STUDENT: Demirkaya, Gokmen
ADVISOR(S): Goswami, D. Yogi

Spring 2011

Thermo-Mechanical Beam Element for Analyzing Stresses in Functionally Graded Materials

STUDENT: Caraballo, Simon

ADVISOR(S): Kaw, Autar

Diamond Based-Materials: Synthesis, Characterization and Applications

STUDENT: Hu, Qiang

ADVISOR(S): Kumar, Ashok

Fall 2010

Consumable Process Development for Chemical Mechanical Planarization of Bit Patterned Media for Magnetic Storage Fabrication

STUDENT: Bonivel, Joseph

ADVISOR(S): Kumar, Ashok

Summer 2010

Functional Nanomaterials with an Electrochemistry-Based Approach to Sensing and Energy Applications

STUDENT: Weber, Jessica

ADVISOR(S): Kumar, Ashok

Summer 2009

Development and Investigation of Novel Nanostructures and Complex Hydrides for Hydrogen Storage

STUDENT: Niemann, Michael Ulrich

Fall 2004

[Intelligent Telerobotic Assistance for Enhancing Manipulation Capabilities of Persons with Disabilities](#)

STUDENT: Yu, Wentao

ADVISOR(S): Dubey, Rajiv

Fall 2002

Effect of Dimensional Conformance of Threaded Product on Yield and Tensile Strength

STUDENT: Leon, Fransisco

ADVISOR(S): Hess, Daniel

Summer 2002

Vibration Induced Loosening of Threaded Fasteners: Mechanisms, Modeling and Design Guidelines

STUDENT: Pai, Niranjan

ADVISOR(S): Hess, Daniel

Spring 2002

Analysis of a Thermal Contact Conductance Experiment

STUDENT: Hook, Randolph

ADVISOR(S): Crane, Roger

A Numerical and Experimental Investigation of Direct Acting, Differential Area Relief Valves

STUDENT: Pennington II, Robert E.

ADVISOR(S): Porteiro, Jose

Summer 1998

Fastener Dynamics: Optimum Placement, Effect of Thread Dimensional Conformance, and Threadlocker Life

STUDENT: Dong, Yubo