

## Affiliate Faculty

Cammy Abernathy, Ph.D. 1999, University of Florida

**Dean of the Herbert Wertheim College of Engineering**, Research Interests: Synthesis of thin-film electronic materials and devices using metal organic chemical vapor deposition and molecular beam epitaxy

David Arnold, Ph.D. 2004, Georgia Institute of Technology

**Professor, Department of Electrical & Computer Engineering University of Florida**, Research Interest: Micro/nanostructured magnetic materials; Magnetic microsystems and transducers; Compact (<100 W) power/energy systems

Arthur E. Clark

**Professor, Restorative Dental Sciences, College of Dentistry University of Florida**

Coray Colina, Ph.D. 2004, North Carolina State University

**Professor, Department of Chemistry, University of Florida**, Research Interest: Polymeric membranes, biomolecules and alternative ionic liquids

Mark Dehart, Ph.D., Texas A&M University

**Idaho National Laboratory**, Research Interest: Reactor physics, criticality safety, depletion and spent fuel characterization.

Luisa Amelia Dempere, Ph.D. 1999, University of Florida

**Director of the University of Florida Research Service Centers**, Research Interests: Materials characterization and analysis, sustainable materials, sustainability in engineering

Elliot Douglas, Ph.D. 1993, University of Massachusetts

**Associate Professor, Department of Environmental Engineering Sciences**, Research Interest: Engineering education

Paul Eason, Ph.D. 1998, University of Florida

**Associate Professor and Director, Mechanical Engineering, University of North Florida**, Research Interest: Characterization of cold gas, cast aluminum structure-processing-property

Brent Gila, Ph.D. 2000, University of Florida

**Director of the Nanoscale Research Facility, Research Interest:** Semiconductor and dielectric growth and characterization graphene, solid-state sensors, focused ion beam processing

Brian Gorman, Ph.D., University of Missouri

**Associate Professor, Metallurgical and Materials Engineering, Colorado School of Mines**, Research Interest: Atomically precise measurement of materials

David Hahn, Ph.D. 1992, Louisiana State University

**Professor and Chair, Mechanical & Aerospace Engineering, University of Florida**, Research Interest: Laser-material, plasma-material interactions, aerosol analysis, laser-tissue interactions including laser ablation and dense-medium scattering

Yong Huang, Ph.D. 2002, Georgia Institute of Technology

**Professor, Mechanical & Aerospace Engineering, University of Florida**, Research Interest: Additive manufacturing of biological and engineering structures (using ink jetting, laser induced forward transfer) precision machining, intelligent manufacturing

Benjamin Keselowsky, Ph.D. 2004, Georgia Institute of Technology

**Associate Professor, Biomedical Engineering, University of Florida**, Research Interest: Engineering biomaterial cell interactions and targeted controlled release of immune modulating factors to direct immune cell function

Mark Law, Ph.D. 1988, Stanford University

**Director of the University of Florida Honors Program**, Research Interest: Simulating the performance, radiation tolerance, reliability and manufacture of integrated circuit devices

Meimei Li, Ph.D. 2003, University of Illinois at Urbana-Champaign

**Group Leader, Program Director Argonne National Laboratory**, Research Interest: Advanced SMR concepts, advanced reactor technology, materials design for technology

David Norton, Ph.D. 1989, Louisiana State University

**Vice President for Research**, Research Interests: Electronic photonic, and magnetic thin film materials, electronic oxide materials, thin film deposition

W. Gregory Sawyer, Ph.D. 1999, Rensselaer Polytechnic Institute

**Professor, Mechanical & Aerospace Engineering, University of Florida**: Research Interest: Soft matter, Tribology – the study of friction wear and lubrication

Christine Schmidt, Ph.D. 1995, University of Illinois

**Professor and Chair, Biomedical Engineering, University of Florida**: Research Interest: Engineering novel materials and therapeutic systems to stimulate damaged peripheral and spinal neurons to regenerate

Chiayi Shen, Ph.D.

**Associate Professor, Center for Dental Biomaterials, University of Florida** Research Interests: Dental Materials used in prosthodontics, surface properties adhesion

Susan Sinnott, Ph.D. 1993, Iowa State University

**Professor and Department Head, Materials Science and Engineering, Penn State University**: Research Interest: Computational atomistic methods to design and investigate materials

Franky So, Ph.D. 1991, University of Southern California

**Professor, Materials Science and Engineering, North Carolina State University**: Research Interest: Processing and electronic and optical properties of electronic materials based on small molecule compounds and polymers

Henry Sodano, Ph.D. 2005, Virginia Polytechnic Institute and State University

**Associate Professor, Aerospace Engineering, University of Michigan**: Research Interest: Composite materials and structures, multifunctional materials, nanocomposites, nanotechnology, functional materials

Douglas Spearot, Ph.D. 2005, Georgia Institute of Technology

**Associate Professor, Mechanical & Aerospace Engineering, University of Florida**: Research Interest: Computational mechanics and materials science, behavior of defect in materials, nanostructured materials

Ghatu Subhash, Ph.D. 1991, University of California San Diego

**Professor, Mechanical & Aerospace Engineering, University of Florida**: Research Interest: Solid mechanics, material science and biomedical engineering, dynamic multiaxial response

Scott Thompson, Ph.D. 1992, University of Florida

**Professor, Electrical & Computer Engineering, University of Florida**: Research Interest: Advance transistors focusing on strained

Isabella J. van Rooyen, Ph.D. 2011, Nelson Mandela Metropolitan University

**Distinguished Staff Scientist Idaho National Lab**: Research Interest: High temperature materials, beryllium titanium, nickel-based alloys, tungsten and copper

Wilfred Vermerris, Ph.D. 1999, North Carolina State University

**Associate Professor, Microbiology & Cell Science, University of Florida**: Research Interest: Production of renewable fuels, chemical and polymers