

2010 Interdisciplinary Materials Research Grants (IMRGs) Awarded by the OSU Institute for Materials Research (IMR)

IMR's Research Enhancement Program provides different funding mechanisms to support novel research at The Ohio State University. Seven IMRG Research projects were awarded a second year from IMR for an additional \$287,500 in direct research support from IMR.

2010 IMRG Renewals

IMR provided \$287,500 in direct funding to support the second year of these successful IMRG research projects:

Multi-Scale Characterization of Battery Materials for Improved Performance

Lead: Sudarsanam Suresh Babu, Industrial, Welding and Systems Engineering and Materials Science and Engineering; Co-Applicants: Bharat Bhushan, Mechanical Engineering; Yann Guezennec, Mechanical Engineering; Giorgio Rizzoni, Mechanical Engineering; Shrikant C. Nagpure (PhD Student), Mechanical Engineering

Metamaterials with Smart Reconfiguration for Broadband RF Antennas

Lead: Marcelo Dapino, Mechanical Engineering; Co-Applicants: Suresh Babu, Industrial Systems Engineering; John Volakis, Electrical and Computer Engineering.

Structure-Property Relationships in Novel Structural Materials

Lead: Katherine Flores, Materials Science and Engineering

Economical Platforms for FET-based Protein Detection to Support Sensor Clinical Translation

Lead: Stephen C. Lee, Biomedical Engineering; Co-Applicant: Paul Berger, Electrical and Computer Engineering.

Use of Electrospun Biomaterials as Carriers of Bone Marrow Derived Stem/Progenitor Cells to Stimulate Tissue Neovascularization

Lead: Nicanor I. Moldovan, Internal Medicine; Co-Applicant: John J. Lannuti, Materials Science and Engineering.

Exploring Electrically Tunable Magnetism in Gd-doped Nitride Quantum Structures

Lead: Roberto C. Myers, Materials Science and Engineering & Electrical Computer Engineering; Co-Applicants: Ezekiel Johnston-Halperin, Physics; Michael Mills, Materials Science and Engineering.

Synthesis of III-V Semiconductor Nanowire Heterostructures Using Metalorganic Chemical Vapor

Lead: Fengyuan Yang, Physics; Co-Applicants: Ezekiel Johnston-Halperin, Physics; Roberto C. Myers, Materials Science and Engineering & Electrical and Computer Engineering