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May 21, 2013 from
12:30 – 1:30pm

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• **SCIENCE**

Mastering science based skills to create a prosperous and engaging future

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Enriching the South Florida community through science based student engagement

**Near-infrared Optical Scanner for
Non-Invasive Tissue Imaging**

Speaker:

Anuradha Godavarty is an Associate Professor in the Biomedical Engineering department at Florida International University. Her research interests are in developing near infrared optical imaging technologies and applying them towards breast cancer imaging and functional brain mapping. She had developed hand-held optical imagers for breast cancer imaging and is currently in the processing of commercializing the technology as a university spin-off company. In 2012, she received the Health Care Hero Award from the Miami Chamber of Commerce.

Topic:

Optical imaging using near-infrared light is non-radiative and non-invasive for deep tissue imaging. At our Optical Imaging Laboratory in Florida International University, an ultra-portable hand-held near-infrared optical scanner (NIROS) has been developed for imaging of breast tissues (as a pre-screening tool) and for hemodynamic imaging with potential applications in monitoring wound healing, diabetic ulcers, sports injuries (on-site). NIROS would serve as a visual scope for physicians to see below the tissue surface, analogous to a stethoscope (a hearing scope). Currently, efforts are ongoing in commercializing NIROS technology as a university spin-off.