

USF NEXUS INITIATIVE 2018 AWARD RECIPIENT

Sylvia Thomas

Bio and Electronic Advanced Material Systems (USF BEAMS)

USF-Italy BEAMS (Bio and Electronic Advanced Material Systems) is an interdisciplinary research collaboration between the University of South Florida and the National Research Council of Italy-Institute for Polymers-Composites and Biomaterials (CNR-IPCB, Naples) and the Italian Institute of Technology-Center for Nano Science and Technology (IIT-CNST, Milan). USF BEAMS researchers will investigate the design and fabrication of Micro/Nano devices for drug delivery to cancer cells, tissue regeneration, hybrid nano-coaxial transistor structures, lab-on-a-chip diagnostics, low-noise low-power devices, and multifunctional nanocomposites for flexible electronics and implantable sensors. Dr. Sylvia Thomas of the USF Electrical Engineering Department will lead this research effort.

Partnerships:

Vincenzo Guarino, Ph.D., Research Scientist and Scientific Lead

National Research Council of Italy, Institute for Polymers, Composites, and Biomaterials (Rome, Italy)

Mario Caironi, Ph.D., Tenure-Track Researcher

Italian Institute of Technology, Center for Nano Science and Technology (Genoa, Italy)



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