

Southeastern Nanotechnology Infrastructure Corridor (SENIC): A Regional Research Resource

March 31, 2023, 3:00 PM

Manning Hall – Room 201
Dept. of Physics and Materials Science
University of Memphis
3750 Desoto Ave, Memphis, TN, 38111

Paul J Joseph, Ph.D., MBA

Faculty - Principal Research Scientist
Director of External User Programs
Southeastern Nanotechnology Infrastructure Corridor
(SENIC) Georgia Tech Institute for Electronics &
Nanotechnology (IEN)

The Southeastern Nanotechnology Infrastructure Corridor (SENIC) is one of 16 members of the National Nanotechnology Coordinated Infrastructure (NNCI), a network of academic user facilities serving the needs of nanoscale science, engineering, and technology by providing state-of-the-art equipment, staff expertise, and training resources. SENIC assists researchers with a broad range of micro and nanofabrication and characterization projects, such as nanostructures, nanoelectronics, MEMS, biological/chemical sensors and systems, biomaterials, photonics, materials growth, and synthesis. The presentation will provide an overview of NNCI and SENIC with a discussion of shared lab resources, external user services, and education/ training programs followed by time for Q&A. After the presentation, a SENIC representative will be available for consultations and networking.

Paul Joseph received his Ph.D. in Physical Chemistry from the University of Madras in 1997. Dr. Joseph graduated with an MBA (specializing in Technology Innovation & Commercialization) from the Georgia Institute of Technology in 2021. In 1997, he was awarded a CSIR – Research Associate Fellowship to conduct research in Phase Transfer Catalysis at the Indian Institute of Technology, Madras, but he accepted a post-doctoral fellow position at the National Tsing Hua University, Taiwan (1997-2000). In April 2000, Dr. Joseph moved to the Georgia Institute of Technology and joined as a research faculty. Currently, Dr. Joseph is a Principal Research Scientist at the Institute for Electronics and Nanotechnology (IEN) and is also serving as a Director of External User Programs for the Southeastern Nanotechnology Infrastructure Corridor (an NSF-funded NNCI site). Dr. Joseph's current research interests are in Nanobiotechnology, Bio-MEMS, and Biosensors' application as diagnostics. Dr. Joseph's original research work overall resulted in 85 publications, reports, conference presentations, trade publications, and 7 awarded US and international patents. In 2022, Joseph received a prestigious Fulbright Specialist Award from the Fulbright Foreign Scholarship Board and was also appointed as a Guest Editor for Frontiers in Nanotechnology for the energy applications section of the publication.

Who should attend?

Faculty, students, scientists, engineers, researchers, and technical staff from universities, companies, or government labs who use, or are interested in learning about, micro and nanoscale fabrication and characterization as part of their research efforts.

Seminar hosted by:
Shawn Pollard, Ph.D. (Assistant Professor) &
Felio Perez, Ph.D. (Material Science Lab Manager)
Department of Physics and Materials Science
University of Memphis

