

## **1. Commercialization at Texas State**

### **Abstract**

In recent years, there has been substantial increase in the commercialization of public-funded research and academic entrepreneurship at research universities. In the academic literature, considerable attention has been devoted to the rise in university technology transfer, via patenting, licensing, research joint ventures, and the formation of start-up companies. We have also witnessed a dramatic increase in investment in incubators/accelerators, science parks and other property based institutions that facilitate the transfer of technology from universities to firms.

In this presentation, Texas State's commercialization activities that include the process, policies and opportunities, will be presented. Also, the knowledge and experience of entrepreneurship will be shared and discussed.

## **2. Synthesis and Characterization of Polymers**

### **Abstract**

Involved in synthesis, characterization and processing of high-performance polymers, composites, nanoclay blends, super-critical fluid techniques, mechanical recycling of thermoplastics and development of special applications. Two of the emphases will be presented; first the largest effort is the synthesis and characterization fluoropolymers for space and microelectronic applications. Second, a super-critical fluid laboratory was built and equipped to allow investigation of synthesis, modification and processing in supercritical carbon dioxide.

### **BIOGRAPHIC SKETCH – REDDY VENUMBAKA, Ph. D.**

Dr. Venumbaka was named Director, Commercialization Services in 2010 to manage and facilitate industrial activities, to promote applied research and establish formal working relations with industry partners, to protect University intellectual property, and to transform technology into successful enterprises. His responsibilities include coordination of existing industrial activities, working with faculty and staff to file invention disclosures and to determine commercial potential; marketing intellectual property and manage intellectual property protection process; ensure compliance with policies and

procedures relative to industrial research; drafting and reviewing industry agreements to stimulate the development and commercialization of advanced technologies,

In his previous positions as Director of the Institute for Environmental and Industrial Science (IEIS) and the Director of Office of Technology Commercialization (OTC) at Texas State, he was accountable for directing and administering the pre-and post-award activities for a multi-disciplinary institute (IEIS) and commercialization of the Intellectual Property in OTC. His position as Director of IEIS involved collaboration with faculty, staff and administrators on the Texas State campus as well as with other universities, private industries and funding sources.

Dr. Venumbaka has more than twenty years of experience in the synthesis of new monomers and high performance polymers with an earned reputation in defining requirements for customers, proposing solutions, executing programs, and delivering results. The polymers include Polyurethane, acrylic emulsions, acrylonitrile, Fluoropolymers, Neoprene and Nitrile rubber based adhesives. He monitored both individual and multiple (two or more organizations) investigations in research & development, test & evaluation. He worked as Vice President for the Trinity Chemical Corporation for 2 years and also he founded his own company.