Reflections of a Professional Career

Thursday, February 18, 2016
4:00 p.m. | 202 Reed McDonald Building

Abstract
The presentation will include the journey of my professional career in the research and technology group at Lockheed Martin Space Systems Company. More specifically, it will include a few specific examples describing the work environment, the opportunities and challenges encountered, nature of projects, functional teams, and inter and intra organizational team work. The presentation will include glimpses of expectations and customer interactions, and share a perspective about the changes in the landscape of aerospace industry, potential career pathways, and opportunities.

Dr. Rawal is the Technical Fellow in the Advanced Technology Center, Lockheed Martin Space Systems Company. Dr. Rawal has about 30 years of experience in the applied materials and structures research for spacecraft systems, and he has successfully inserted new materials technologies into the components of several spacecrafts such as Mars Global Surveyor, Mars 98, New Millennium Programs (EO-1, Deep Space-1), STRV-1d, Genesis, Stardust, MRO, XSS-11, JUNO, GRAIL, GOES-R, OSIRIS-Rex and special programs.

Dr. Rawal has been program manager and principal investigator of several contract research and development (CR&D) programs sponsored by DoD and NASA. These R&D projects have been in the areas of advanced composites, thermal management, multifunctional structures technologies, thermal protection systems, thin film photovoltaic, nanocomposites, additive manufacturing, light weight spacecraft technologies, and heat pipe cooled leading edges for hypersonic vehicles. Dr. Rawal has received numerous Lockheed Martin awards, including inventor, author, and technical excellence. Dr. Rawal holds nine patents and five trade secrets.