

Seminar

Systems Engineering Research

**Ricardo Pineda, AT&T Endowed Professor and Chair
Department of Industrial, Manufacturing and Systems Engineering
Director, Research Institute for Manufacturing and Engineering Systems
University of Texas - El Paso**

Monday, October 1, 2012, 1:50 – 2:40
1027 Emerging Technologies Building

Abstract: After a brief review of the main research areas within the Industrial, Manufacturing and Systems Engineering and the Research Institute for Manufacturing and Engineering Systems (RIMES) at UTEP I will cover my specific research in Systems Engineering. A brief description of the relational model developed to obtain academia-industry-government participation in research projects and the almost three fold increase in research revenues over the last four years will be presented. The specific research projects that will be covered are: Systems Of Systems Design, Model Based Systems Engineering, Renewable Energy and Smart Grids, Reliability and Prognosis, and Engineering Education. In each of the areas the main challenges, objectives, findings, and future research needs will be presented.

Bio: **Dr. Ricardo L. Pineda** received his M.Sc. in solid state physics and his PhD degree in nuclear physics from Lehigh University in 1978 and 1985 respectively. He is currently AT&T Endowed Professor, Chair of the Industrial, Manufacturing and Systems Engineering (IMSE) department and Director of the Research Institute for Manufacturing and Engineering Systems (RIMES) at the University of Texas at El Paso.

He has held numerous leading positions in R&D at Bell Labs; Chief Technology Officer (CTO) at AT&T in Mexico; Practice Director at Siemens SBS; Technology Planning Director and Network Systems Director at Lucent Technologies.

His current research interests include Next Generation Networks (NGN) and Service Systems Engineering, Application of Architectural Frameworks to Systems of Systems (SOS), Complex Systems Development Management, and Smart Grids.

Dr. Pineda was recipient of the UTEP Outstanding Performance Award, the Outstanding Research Award, the Research Award Recognition, and the “AT&T Architecture Award”. He was also a Distinguished Member of the Technical Staff (DMTS) at Bell Labs and was nominated by Bell Labs for the “USA – Hispanic Engineer of the Year” award. He has been a Gotshall Fellow and a Baldwin Fellow during his career.