

**Pete Bernardin** (M' 90, SM' 98) received a B.S. in mathematics from Villanova University in 1973 and a Ph.D. in biomedical engineering from The Johns Hopkins School of Medicine in 1979. His graduate work included research in auditory systems, applying mathematics and signal processing to the neural processes of hearing. His current research interests are focused on developing a better understanding of Energy and Macronutrient Metabolism for the prevention of Obesity and its related diseases. He has over 20 years experience in solving engineering and mathematical problems with digital methods. He has worked in the Radar and Digital Systems division of Texas Instruments, and the Advanced Technology Lab of RCA. He has worked as an image processing consultant for NASA, as a digital signal processing staff specialist for Tandy Corporation. He was a Manager for Wireless RF engineering and a Senior Manager for Broadband Wireless product development at Nortel Networks at Richardson, Texas. Dr. Bernardin has industrial experience working recently with many different wireless technologies such as UMTS, GPRS and Wireless Sensor Networks.

Dr. Bernardin is the author of two books concerning numerical computation for engineering and scientific applications. He holds seven patents in the area of Wireless RF Coverage Estimation for Cellular systems. He is also the author of several research papers covering a broad range of technical areas which include image processing, radar, spectral estimation and wireless communications.