

Curriculum Vita of Jen-shih Lee (李仁师, JL@globalmonitors.com, 1/5/2011)

Jen-shih Lee is the CEO of *Global Monitors, Inc.*, a San Diego medical device company for improving the delivery of hemodialysis care. He retired in 2003 from the *University of Virginia*, after serving 34 years as a Professor of Biomedical Engineering and 13 years as the Chair of the Department of Biomedical Engineering. Lee led the successful effort to win from *The Whitaker Foundation* a \$10.5 million Development Award and a Special Construction Grant to enhance the biomedical engineering education at the UVA. Subsequently the Department gained a top 20 ranking (out of 86 biomedical engineering programs in USA), the only department in the UVA's School of Engineering and Applied Science to achieve this ranking.

Lee has taught courses in *biomechanics, mass transport, and biomedical engineering entrepreneurship* and published extensively in the area of vascular mechanics, mass transport in the circulation and respiration, microvascular indicator dilution method, and blood volume control. His research on blood volume control suggests that patients taking hemodialysis would experience blood pooling to abdominal organs and subsequently he developed an anti-pooling vest to help patient prevent the development of intradialytic hypotension, a prime cause of high mortality in hemodialysis patients.

He received a B.S. in Mechanical Engineering from National Taiwan University in 1961, M.S. and Ph.D. in Aeronautics from California Institute of Technology in 1963 and 1966 respectively. From 1966 to 1969, he worked as a post-doc in Prof. Y. C. Fung's laboratory in UCSD.

Lee is a Founding Fellow of the American Institute for Medical and Biological Engineering, and a Fellow of the American Society of Mechanical Engineers, the American Physiological Society and the Biomedical Engineering Society. He was elected as the *President of the Biomedical Engineering Society* in 1995/1996. In 1998, the BMES honored Lee with the Distinguished Lecture Award in recognition of his research on the *Biomechanics of the Microcirculation* and in 2002 granted the Distinguished Service Award for his contribution to the profession of biomedical engineering. He has over 70 referred journal publications and five patents on volumes monitor and anti-pooling vest.

A 2005 survey of biomedical engineering students indicated that biomedical engineering entrepreneurship is their top career choice. As a response, he wrote the book "*Biomedical Engineering Entrepreneurship*" which was recently published by World Scientific Publishing Company. It is written for undergraduate and graduate students in biomedical engineering wanting to learn how to pursue a career in building up their entrepreneur ventures. Practicing engineers wanting to apply their innovations for healthcare will also find this book useful.