

Monte Jade 2007

The First Chancellor Tien Forum

Speaker : Dr. William Lee

**A Pioneer of Mobile Communication
Chairman, Treyspan, Inc.**

Topic : “Cell Phone's Impact and Its 4G”

Most of People today can not live without their cell phones. But some of them may ask "where the cell phone comes from?" and "how will it be in the future?". Cell phone actually comes from the cellular car phone. Only few people know that the first cellular car phone system was developed by Bell Labs but the first 200 cellular car phones was made by OKI in 1976. The cellular systems were evolved from analog to digital, from FDMA to TDMA to CDMA to possible OFDMA, from 1G to 2G to 3G to B3G to 4G in the future. The USA's cellular systems started commercially in 1983. Many historical events and interesting stories during the last 23 years will be brought forward in this talk. Besides, the global cell phone systems in the future is a complicated issue which involves technologies, markets, IPR and timing. What is the 4G?. A different view of this issue will be shared with the audience. If you are interested in the cell phone's past and future, do not miss this talk.

Time: Feb. 8 (Thursday), 2007, 6:30-8:00pm

Place: ITRI International

2870 Zanker Road, Suite 140, San Jose, CA 95134

Register: please register on line www.montejade.org

Contact: Monte Jade Secretary Office, (408)428-0388

judychu@montejade.org

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Speech is delivered in Chinese

Tea, coffee, water and snacks are provided

Biography Of William C. Y. Lee



Dr. William C.Y. Lee, Chairman, Treyspan, Inc.

Dr. William C.Y. Lee serves as Chairman of Treyspan, Inc., a start-up company located at Segundo, CA doing the wireless network deployment. He was Chairman of LinkAir Communications, Inc. where he provided strategic direction to LinkAir's senior management team from 2000-2005. He was Vice President and Chief Scientist of AirTouch, then Vodafone-AirTouch from 1985-2000.

Dr. Lee has published more than 300 articles and seven technical books on CDMA theory and technology. His mobile cellular telecommunications system book published in 1989 was the first cellular system book ever published. He wrote eight technical books. The recent one "Wireless and Cellular Telecommunications Systems" was published by McGraw Hill in 2006. An expert in developing marketable communications technologies, Dr. Lee is the inventor of Microcell, a leading technology that increases frequency reuse factors and boosts capacity by 250 percent. He holds more than 30 U.S. patents, with 11 more pending.

Dr. Lee was one of a team of pioneers in developing advanced wireless technology — AMPS — for Bell Labs. His UHF mobile radio propagation model is known as the Lee Model. In 1979, he then joined the ITT Defense Communications Division, where he headed the advanced mobile communications system. He studied artificial intelligence, spread spectrum communications and frequency hopping scheme for military applications. He won four patents in these fields. In 1985, he joined PacTel (which then became Vodafone AirTouch in 1999) where he was Vice President and Chief Scientist. He was elected as co-chair of ARTS Committee of CTIA in selecting the second generation cellular system for USA (1987-1988). During his tenure in 1989, he assisted in CDMA research and the initial trial of the technology for Qualcomm in San Deigo. Dr. Lee then led PacTel's PCS experimental trial, and under his leadership, the first CDMA phone call was completed in Los Angeles in 1995.

Dr. Lee has been elected as an IEEE Fellow and has served as a member of numerous Councils, including the California State Council on Science and Technology (Fellow); the US Council on Competitiveness; a former member of the FCC Technical Advisory Council from 1999-2001; a member of the Electrical and Computer Engineering Board of Advisors/Industrial Affiliates, University of California, Davis.

He was the appointed Chairman of MOEA Wireless Communications advisory group, Taiwan (1999-2005). He was also invited as a member of SRB and a member of Science and Technology Group of Executive Yuan to review the developmental strategy of the overall Taiwan wireless communication.

He served as the editor of IEEE Transactions of Vehicular Technology (1980-1990) and the board member of IEEE VTS (1991-1998). He has earned many prestigious industry awards, including the IEEE VTS Avant Garde Award, the CTIA Award, the CDMA Industry Achievement Award, the SATEC Award, a Bell Lab Award and the IEEE Third Millennium Medal Award. In 2001, Dr. Lee received the Telecommunication Achievement award from the Chinese Historical Society of America, and the Stuart Meyer Memorial award from IEEE Vehicular Technology Society. He is an honorable professor at three universities: Beijing University of Aeronautics and Astronautics, Southwest Jiao Tong University (Chengdu), and Taiwan National Chiao Tung University. Currently, he is the visiting professor and the honorable director of Advanced Communications Institute of Peking University at Beijing, China. ■

