

WCNC 2005 KEYNOTE AND PLENARY SESSIONS

TUESDAY 4 APRIL

PLENARY SESSION

14:00 - 15:30 Room N113-N114

OPENING KEYNOTE

Kristin S. Rinne, *IEEE WCNC 2006 General Chair,
Chief Technology Officer, Cingular Wireless, USA*

Topic: **HSDPA LIVE—MOVING THE U.S. INTO THE FOREFRONT OF WIRELESS TECHNOLOGY**

A professional in the telecommunications industry for more than 25 years, Kristin Rinne is the Chief Technology Officer at Cingular Wireless and responsible for industry standards development, long range technology planning, and the network and device planning for new products and services. Prior to serving as the CTO, she was the company's Vice President - Technology and Product Realization. Rinne served as Vice President - Technology Strategy for SBC Wireless and also worked as Managing Director - Operations of Southwestern Bell Mobile Systems prior to her tenure with Cingular. She also holds the office of chairperson for 3G Americas, an industry trade group focused on propagating the use of GSM technology throughout the Americas.



Kristin S. Rinne

KEYNOTE ADDRESS

Robert Calderbank, Ph.D., *Professor of Electrical Engineering, Mathematics
and Applied and Computational Mathematics*

Topic: **QUANTUM COMPUTING AND CELLULAR PHONES**

Multiple antennas are transforming the rate, reliability and reach of wireless systems. Quantum computers are calling into question the security of cryptosystems where security rests on the presumed intractability of factoring. The speaker, Dr. Robert Calderbank, an AT&T Fellow and co-inventor of space-time codes, will use nineteenth century mathematics to connect these two breakthrough technologies.



Robert Calderbank, Ph.D.