

Physics Department Seminar

Friday April 21st, 2006

note: ROOM CHANGE

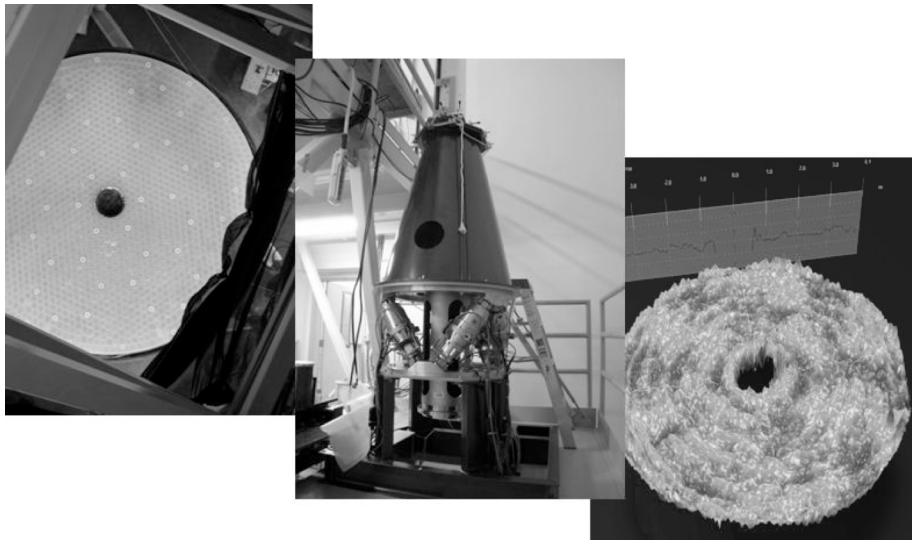
11:00am in PhSc 130

“Dynamic Interferometers: Turning Ideas into Products”

Dr. James Millerd

Chief Technology Officer of 4D Technologies

2006 Outstanding Alumnus College of Natural Sciences



Abstract:

Over the last 6 years 4D Technology Corporation has introduced a unique collection of dynamic interferometers that enable high precision measurement under extreme environmental conditions. These systems have been utilized in a wide variety of research and industrial applications and have received numerous accolades including two prestigious R&D100 awards. The fundamental optical principles behind the instruments will be presented including several novel applications for the technology and a discussion of some of the technical challenges faced when turning ideas into commercial products.



Dr. Millerd is co-founder of 4D Technology Corporation, a world leader in vibration immune interferometry and profilometry systems. His research in these fields has led to over 30 publications and numerous patents. He has received the R&D 100 Award, Photonics Circle of Excellence Award and NASA's Recognition of Excellence Award. Dr. Millerd received his BS in Physics and Electrical Engineering from California State University, Chico in 1987. He received MS (1989) and Ph.D. (1992) degrees from the University of Southern California in the Electrical Engineering Department. He serves on the California State University, Physics Advisory Board since 1995.