



Meeting Announcement

February 12th 2014

Dynamic Interferometry

Dr. James Millerd, 4D Technology Corporation



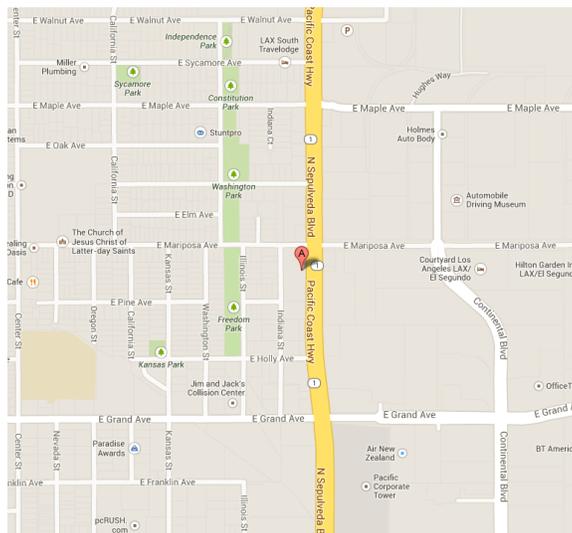
Over the last decade, Dynamic Interferometry systems have become commercially viable and have changed the way optical testing is performed. By capturing data in a single camera frame, the deleterious effects of vibration and motion are avoided and precision interferometric measurements can be made in environments that had previously been impossible. Because vibration isolation is no longer required it is now straight-forward to test very large optics, such as meter-class space telescope mirrors, over long path

lengths and under challenging configurations such as inside thermal vacuum chambers. In addition, it is possible to measure, in real-time, objects that are inherently moving such as rotating hard-disk drive platters, vibrating adaptive optical mirrors, tear-film on a human eye, or living cells under a microscope. Dr. Millerd will present an overview of the optical techniques employed to realize vibration insensitive dynamic interferometers, take a peek under the hood of several unique instrument configurations that have been developed, and show measurement examples from a variety of applications ranging from optical component testing to the life sciences.

About our speaker: Dr. Millerd is a co-founder and the President of 4D Technology Corporation, (Tucson, AZ) a worldwide leader in advanced optical metrology instruments. He was previously the Applied Optics Group Leader at MetroLaser, Inc. (Irvine, CA) and a Member of the Technical Staff at TRW's Space and Technology Group (Redondo Beach, CA). He received BS in Physics from California State University, Chico; MSEE (1989) and PhD (1992) degrees from the University of Southern California.



For Directions: <http://goo.gl/maps/lrKj2>



Wednesday, Feb 12th, 2014

Reception: 6:00; Dinner: 7:00; Talk: 8:00
Meal: Buffett Style Dinner
Cost: \$30 (OSSC Student Members Free!)

Venue:

Hacienda Hotel
525 N. Sepulveda Blvd.
El Segundo, CA 90245
(310) 615-0015

On-line Registration: www.oss.org or
Contact: Matt Samson, **OSSC** Arrangements Chair,
Events@oss.org, 714-494-5349

Please Register by Feb 7, 2014

Please post this notice and invite your friends & colleagues to attend!