



San José State
UNIVERSITY

Phase-Based Optical Fiber Sensors

A One-Day Professional Development Short Course

Thursday, April 29, 2004 8:00 a.m. – 5:00 p.m.

Engineering Building, Room 287

(Registration starts at 8:00 a.m.)

OBJECTIVES: The objective of this course is to provide the attendee with a broad understanding of the fundamental science, basic operation, technology choices, manufacturing methods, terminology, supplier base, market landscape, and practical aspects of fiber-optic interference-based sensors.

WHO SHOULD ATTEND: Engineers, scientists, technicians, sales, marketing, legal professionals, analysts, investors, purchasing staff, managers, and anyone seeking an entry-level background in fiber optics. This short course does not require advanced mathematics.

- COURSE OUTLINE:**
- Overview of applications
 - Polarization maintaining fiber
 - Phase and optical interference
 - Square law detection
 - Transfer function
 - Overview of single-mode fiber devices
 - Mach-Zehnder interferometer
 - Michelson interferometer
 - Acoustic sensors
 - Magnetometers
 - The Sagnac Effect and Optical gyroscopes

PRESENTED BY: Robert Dahlgren, President and CEO of Silicon Valley Photonics Limited, has been engaged in optical technology for more than 20 years. He received his M.S. degree from M.I.T in aeronautics/astronautics in 1993, his second M.S. degree from San Jose State University in physics in 2001, and his B.S.E.E. from the University of Minnesota in 1983, and is a recipient of the IEEE “3rd Millennium” award.

FEE: \$395, which includes continental breakfast, refreshments, lunch, and course notes.

For more information, please see <http://www.engr.sjsu.edu/mae> or contact Dr. Fred Barez at (408) 924-4298 or barezf@email.sjsu.edu

REGISTRATION FORM (Please forward by April 22, 2004)

Phase-Based Optical Fiber Sensors, April 29, 2004 - \$395

You may pay by credit card or make check payable to **PDP/MAE Dept/Phase Optical Sensors** and mail registration form to:

PDP SHORT COURSE, Mechanical & Aerospace Engineering,
San José State University, One Washington Square, San José, CA 95192-0087 Fax (408) 924-3995.

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