



Guide to Laser Micromachining and Ultrafast Laser Processing

INTRODUCTION

To support the demand for machining operations that desire higher precision and productivity, making use of lasers to create features such as holes, grooves and marks has entered the mainstream in the last decade. With industries such as display fabrication, semiconductor production and medical device manufacturing requiring finer features, the industry is turning to ultrafast laser processing to service these new challenging applications.

For this seminar, we have invited two industry experts who are at the forefront of the laser processing industry. Mark Turner Ph.D. from Turner Laser Systems will provide an introduction and review of contemporary laser machining techniques used in the industry. Anthony Lee Ph.D. from Coherent will follow with a discussion of Ultrafast Laser Processing: discussing the advantages of this technology for precision applications and compatibility with a wide range of materials such as glass, sapphire and certain polymers.

If you have projects that relate to laser machining or would like to learn more about the discipline, this would be a great seminar to attend. Join us to learn from these industry experts.

AGENDA

Part 1: A Review of Contemporary Techniques for Laser Micro-Machining

(Presented by Mark Turner, Ph.D.)

- Solving manufacturing problems and improve product quality with lasers
- Q & A

Part 2: Introduction to Ultrafast Laser Processing

(Presented by Tony Lee, Ph.D.)

- Comparison to conventional longer pulses in pico, nano and continuous wave.
- Wide range of compatible materials, especially brittle materials such as glass
- Q & A

WHO SHOULD ATTEND

- Design Engineers
- Application Engineers
- Quality Managers
- Engineering Management
- Manufacturing Engineers
- Product and Ops Managers

Wednesday, May 29th, 2019

8:30 AM to 9:00 AM

Complimentary Continental Breakfast and facility tour

9:00 AM to 11:30 PM

Presentations

Owens Design

47427 Fremont Blvd., Fremont, CA

RSVP ONLINE

www.owensdesign.com

or contact Tim Eng / teng@owensdesign.com

PRESENTERS

Mark Turner, Ph.D.

Founder and CEO, Turner Laser Systems

Mark obtained his Ph.D in laser micro-machining at Swinburne University in Australia, has published in top research publications including Nature photonics and patented IP in laser glass machining. Prior to starting TLS, he worked at Prosint a laser systems integrator and IMRA America an ultrafast laser manufacturer. In 2018 Mark founded Turner Laser Systems in partnership with Owens Design to provide laser machining solutions to both OEMs and end-users.

Tony Lee, Ph.D.

Senior Scientist & Applications Engineer, Coherent

Anthony obtained his Ph.D in Solid State Physics at University of California, Davis. Prior to Coherent, Anthony contributed to projects at Raydiance and Agilent.

Event Co-Hosts

