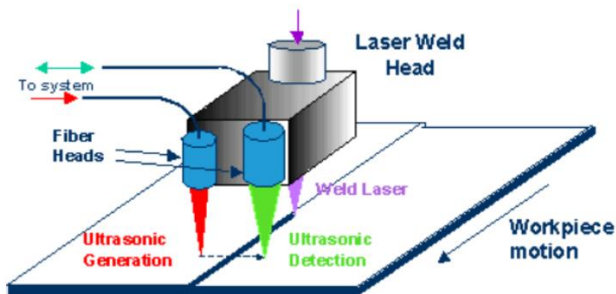


OSSC Combined In-Person & Webinar
"Laser ultrasonics for aerospace and nuclear applications."
Dr. Bradley Bobbs, Senior Scientist,
Laser Ultrasonic Products Group at Intelligent Optical Systems

Abstract: Laser ultrasonics has found a variety of applications for in-situ monitoring and post-process testing. In these applications, one laser produces ultrasonic waves, while a second laser detects those waves interferometrically. The fact that no surface contact is needed provides key advantages over conventional transducer-based ultrasonics. Laser ultrasonics can provide immediate feedback on defects during welding, seamless tube extrusion, and additive manufacturing, enabling repair of the defects during manufacture. Laser ultrasonics can also measure fluid flow and fastener load without making contact and find hidden defects in semiconductor devices and composite materials. The physics and practice of laser ultrasonics, and many applications examples, will be reviewed.



In-Line Factory Wall Thickness Demonstration



About our speaker



Dr. Bradley Bobbs is Senior Scientist for the Laser Ultrasonic Products Group at Intelligent Optical Systems in Torrance. He holds a Ph.D. in Physics from UCLA and a B.S. in Physics from Harvey Mudd College. Dr. Bobbs has over 50 years of experience in scientific research, both theoretical and experimental, specializing in optics and lasers. He has authored over 85 scientific publications, including 17 in refereed archival journals, and holds 12 awards for special achievements.

OSSC Combined In-person and Online Event
September 13, 2023

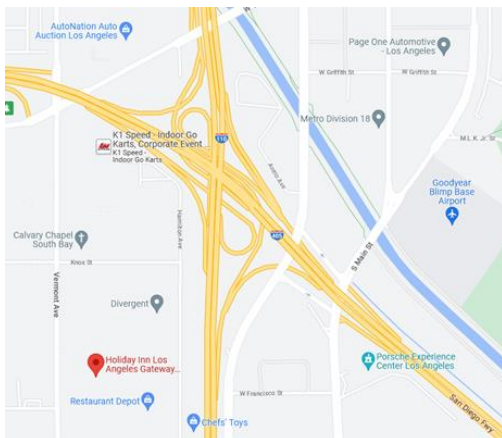
Reception: 6:00pm Dinner: 7:00pm Presentation: 8:00pm
Dinner - Members: \$35 Non-Members: \$40 Students: \$10
Late Fees of \$10, after 11:59 pm September 9
Venue: Holiday Inn Los Angeles Gateway-Torrance
19800 S. Vermont Ave, Torrance, CA, 90502

No fee for in-person without dinner or for online attendees
Registration Required

Online Registration until Tue. September 12, 2023
[Register Here for In-Person and Online Attendance](#)

www.osscc.org

Please post and invite friends to attend.



Please share this flyer with colleagues and friends who may be interested.