

Light Amplification by Stimulated Emission of Radiation or LASER

Avoiding accidents, especially those of the eye, is what **laser safety** is all about. Because even limited amounts of exposure can result in permanent injury, sale and usage of lasers is usually subject to regulations.

Someone exposed to laser radiation, particularly invisible radiation, may not even be aware that damage is occurring. Some lasers are so powerful that even the diffuse reflection from a surface can create an injury causing hazard.

Retinal and cornea injuries as well as skin damage can occur in less than a blink of the eye so great caution is recommended with all laser usage regardless of the work site.

Laser Safety for Industry & Research

will provide an expanded basis of information and a reference point for creating and ensuring safety in the workplace when using lasers according to the American National Standard for Safe Use of Lasers: ANSI Z136.1. Please note that every participant will receive his or her own copy of the ANSI Standard.

This workshop was developed with support from the National Institute for Occupational Safety and Health, the Centers for Disease Control and Prevention, the Public Health Service, & the US Department of Health and Human Services.

Southwest Center for Occupational & Environmental Health

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The Center for Health, Safety
& Well Being

Laser Safety

For Industry & Research

October 20 & 21, 2009

Houston, TX

Register Securely Online at:
<http://www.utsphalumni.org/SWCOEHLSC102009>



Laser Safety

for Industry & Research

This Two Day course covers the Laser Safety Officer's roles and responsibilities as described in the latest version of the ANSI Z136.6 Standard. It will provide a solid foundation of information on laser physics, biological effects, hazards, and control measures as well as concise distillation of the requirements in the ANSI Z136.1-2007 Standard for the Safe Use of Lasers. Non-beam hazards, emerging issues, and accident histories with lessons learned will be included.

Participants will learn how to apply laser safety principles in developing and conducting laser safety training, in the performance of safety evaluations, in completing hazard calculations and in effectively managing an institutional laser safety program.

Although some knowledge of laser hazards will be helpful, both the experienced and the novice health physicist who have laser safety responsibilities will benefit from this course.

While scientific calculators for a "walk through" exercise will be available for participant use in the classroom, individuals are encouraged to bring their own.. Please note that every participant will receive his or her own copy of the ANSI Standard – a \$200 value.

Continuing Education Credit

ABIH Fundamental IH CM points and AAHP CE credits for *Laser Safety for Health Physicists* have been applied for.

Ben Edwards, MS, CLSO, RRPT

course director

Ben Edwards is a health physicist at the Duke University Medical Center in Durham, North Carolina. A BLS Certified Laser Safety Officer, Ben holds a BS in Physics and an MS in Occupational Safety. He has practiced and applied laser safety nearly two decades in such diverse fields as medicine, biomedical research and academic environments. Ben has conducted research and published several papers on operational laser safety. A member of the Laser Institute of America (currently serving on the Board of Directors), the Health Physics Society (on the Program Committee), and the American Society of Safety Engineers. He serves on the ANSI Z136 Committee (currently as vice-chair of the Non-beam Hazards technical subcommittee), the Board of Laser Safety and as a conference chair for the 2009 International Laser Safety Conference.



Registration and Cancellations

The registration fee includes all course materials, speaker fees, continental breakfast, lunch and break refreshments. Cancellations must be in writing and refunds (minus a \$75 administration fee) will only be issued up to 2 weeks prior to the course; afterwards, fees are forfeited. Participant substitutions are permitted with prior written notice.

Accommodations

Accommodations for **Laser Safety** should be made directly with the [Holiday Inn Hotels & Suites Houston Medical Center](#) located at 6800 S. Main St., Houston, TX 77030. Please call the hotel directly at 713-528-7744 and reference the "**Univ. of TX School of Public Health**" to benefit from the special group rate of \$99 per guest room or guest suite (includes a kitchenette) per night. Visit their website at <http://www.ichotelsgroup.com/h/d/hi/1/en/hotel/houmd>. Space is limited and the final day to receive the special rate is October 5, 2009, so please make your reservations as soon as possible!

Laser Safety for Industry & Research

The University of TX Health Science Center
Operations Center Building, Rio Grande Rm.
1800 Crosspoint Ave., Houston TX
October 20 & 21, 2009

By 10/2/2009 After 10/2/2009

Registration fee per person \$575 \$725

Name _____
Position / Title _____
Company _____
Address _____
City, State, Zip _____
Email _____
Phone: Work, Mobile _____

Area of Specialization: ___ Ind. Hyg. ___ Safety ___ Doctor
___ Nurse Other: _____

Employer: ___ Fed. Gov ___ State Gov ___ Local Gov
___ Academic ___ Private ___ Other: _____

Registration options: complete this form in its entirety and mail with check (payable to SWCOEH) to the address below, or register online securely with your credit card at:

http://www.utsphalumni.org/SWCOEH_LSCI02009

Note - credit card payments must be entered online; we can not take info over the phone.



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