

L A S E R I N S T I T U T E O F A M E R I C A

2016 PUBLICATIONS

PRACTICAL KNOWLEDGE FOR YOUR LASER NEEDS



**Laser Institute
of America**
Laser Applications and Safety

ABOUT LIA & TABLE OF CONTENTS

Welcome to Laser Institute of America (LIA)'s catalog of publications for 2016. Here at LIA, we pride ourselves on our dedicated ability to provide current laser safety guidelines and products within the rapidly evolving field of laser technology.

Our primary goal is to help you, the consumer, keep yourself as well as your colleagues and employees safe and out of harm's way. This has been our mission since 1968 and is why we publish the ANSI Z136 series of laser safety standards. As a member of the OSHA Alliance program since 2005, we strategically train OSHA compliance officers how to identify if a laser safety program meets the specifications of the ANSI Z136 standards and any OSHA regulations. In an effort to deliver the most helpful material, LIA is constantly improving its products to make sure that your laser safety needs are met in the most efficient manner.

This year, we've made even more improvements to some of your favorite products. One of our most recent revisions was to LIA's very own *Mastering Light: An Introduction to Laser Safety & Hazards*[®] video. The video features updated footage as well as a quiz in order to ensure employees' understanding of laser safety concepts and information. In order to meet the needs of our consumers, a digital version is also available with the purchase of a DVD.

The new 2016 Desktop Evaluator software can be downloaded to a computer desktop via a purchased USB drive, which eliminates the need for internet access. You may find this to be more suitable for your needs. In addition, we have a newly revised ANSI Z136.6 *Safe Use of Lasers Outdoors* (2015) standard as well as the *LIA Guide to High Power Laser Cutting*.

Whether you're solely looking to stay up to date with laser technology or simply trying to figure out how to effectively improve the safety of employees, LIA is here to deliver our most prestige and sought after products. Our many tools will serve as vital resources by keeping you up to date with the proper safety guidelines, industry best practices and new industry advancements.

TABLE OF CONTENTS

ANSI Standards.....	4-5
Mastering Light.....	6
Safety Training Guides & Aids.....	7
Evaluator.....	8-9
Applications.....	10
Product Listing.....	11
Order Form.....	12

JOIN LIA! BECOME PART OF THE LIA EXPERIENCE

As an individual or corporate member, you will be a part of a community focused on protecting, nurturing and developing laser applications and safety knowledge. Join today and network with the laser community and be the first to hear about advancements in the laser industry through our membership newsletter, *LIA TODAY* and peer-reviewed journal, the *Journal of Laser Applications*[®].

Become an LIA member today! Visit our website at lia.org/membership.

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Membership	membership@lia.org
General	lia@lia.org

NEW 2016

PUBLICATIONS

Revised/new publications to keep your laser safety & applications knowledge up to date!



ANSI Z136.6 - Safe Use of Lasers Outdoors

Pub #: 116_2015

Pub #: 116E_2015

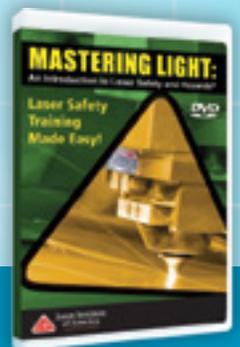
Find this on page **4**

Mastering Light DVD - An Introduction to Laser Safety and Hazards®

Pub #: 303_2016

Pub #: 303S_2016

Find this on page **6**



The Evaluator - Desktop

Pub #: 319

Find this on page **8**

LIA Guide to High Power Laser Cutting

Find this on page **10**



ANSI STANDARDS

NEWLY REVISED!

ANSI Z136.6 – Safe Use of Lasers Outdoors (2015)

Print Version Pub# 116_2015
ISBN# 978-1-940168-0-67
Electronic Version Pub# 116E_2015
ISBN# 978-1-940168-0-74



The ANSI Z136.6 *Safe Use of Lasers Outdoors* (2015) is a necessary tool for anyone operating lasers outdoors. This newly revised document provides guidance for the safe use of potentially hazardous lasers and laser systems (180 nm to 1 mm), in an outdoor environment, where the establishment of open beam paths is necessitated. When used in conjunction with the ANSI Z136.1 *Safe Use of Lasers*, the Z136.6 ensures that your outdoor laser applications are in conformity with the latest safety guidelines.

The ANSI Z136.6 is designed for use by anyone operating lasers outdoors; from laser light shows, scientific/astronomical research, to military (DOE, DoD).

This latest edition was created with the goal to update, clarify, and streamline an already established, recognized standard to better reflect today's outdoor laser operators' needs.

Some of the changes to the 2015 edition include:

- Single column format and index for improved readability and searchability, and color added to figures for ease of use.
- Added definition of "Control Measures" with explanation of preferred categories.
- Complete rewrite of the Control Measures section to include the removal of most manufacturer-specific requirements, and the addition of an expanded and standalone military-specific section.
- Metric unit standardization across the standard means no more pesky conversions.
- New definitions and expanded content for visual interference zones around airports and general critical tasks.
- FAA coordination requirements clarified.
- Laser hazard classification revised to include a comparison table between 2000 & 2014 version of ANSI Z136.1 and better explain the purpose and types of hazard classification.
- General section and formatting updates to better reflect today's jargon.

\$150 | LIA Member Price: \$130

Parent Document

ANSI Z136.1 – Safe Use of Lasers (2014)

Print Version Pub# 106
ISBN#978-1-940168-00-5
Electronic Version Pub# 106E
ISBN# 978-1-940168-01-2



The parent document and cornerstone of the Z136 series of laser safety standards, the ANSI Z136.1 provides guidance for the safe use of lasers and laser systems by defining control measures for each of the seven laser hazard classifications.

As a result of advances in laser devices and applications, it is recommended that this standard be obtained by all laser users and is a must for users of Class 3B and Class 4 lasers. This revision of the standard includes laser hazard classification definitions, requirements for refresher training and updates to medical surveillance requirements, providing an updated and thorough set of guidelines for implementation of a safe laser program.

\$193 | LIA Member Price: \$173

ANSI Z136.2 – Safe Use of Optical Fiber Communication Systems Utilizing Laser Diode and LED Sources (2012)

Print Version Pub# 112
Electronic Version Pub# 112E
ISBN# 978-0-912035-68-0



This standard provides guidance for the safe use, maintenance, service and installation of optical communications systems utilizing laser diodes or light emitting diodes. Optical communication systems include end-to-end optical fiber based links, fixed terrestrial point-to-point free-space links or a combination.

This standard is intended to be used by those who assemble the end-to-end system as well as by service, maintenance and other personnel who may come in contact with such systems in uncontrolled, controlled and restricted locations. It provides detailed safety information for systems where optical energy may be accessible and where source parameters are uncertain or not under the control of the user.

\$150 | LIA Member Price: \$130

ANSI STANDARDS

ANSI Z136.3 – Safe Use of Lasers in Health Care (2011)

Print Version Pub# 113
Electronic Version Pub# 113E
ISBN# 978-0-912035-69-7



The ANSI Z136.3 is recognized as the definitive document on laser safety in all health-care environments. It provides guidance for the safe use of lasers for medicine, diagnostic, cosmetic, preventive and therapeutic applications in any location where bodily structure or function is altered or symptoms are relieved. Lasers used in these applications are incorporated into a system, which includes a delivery system, a power

supply, mechanical housing and associated liquids and gases as required for operating the laser.

The entire system is referred to as a health-care laser system, and this standard is intended for use by all personnel associated with the installation, operation, calibration and maintenance and service of the system. A must for hospitals, medical centers, spas, veterinary offices and clinics using lasers.

\$150 | LIA Member Price: \$130

ANSI Z136.4 – Recommended Practice for Laser Safety Measurements for Hazard Evaluation (2010)

Print Version Pub# 117
Electronic Version Pub# 117E
ISBN# 978-0-912035-78-9



Provides guidance for optical measurements associated with laser safety requirements. The information contained in this document is intended to assist users entrusted with conducting laser hazard evaluations to ensure that appropriate control measures are implemented.

\$150 | LIA Member Price: \$130

ANSI Z136.5 – Safe Use of Lasers in Educational Institutions (2009)

Print Version Pub# 114
Electronic Version Pub# 114E
ISBN# 978-0-912035-67-3



This standard applies the requirements of the ANSI Z136.1 *Safe Use of Lasers* to the unique environments associated with educational institutions. ANSI Z136.5 specifically provides laser safety guidance by evaluating and minimizing hazards associated with laser radiation in educational settings at all levels. It also discusses developing laser safety programs and student training, and is intended to be used in conjunction with the ANSI Z136.1.

\$99 | LIA Member Price: \$79

ANSI Z136.7 – Testing and Labeling of Laser Protective Equipment (2008)

Print Version Pub# 115
Electronic Version Pub# 115E
ISBN# 978-0-912035-91-8



This standard provides reasonable and adequate guidance on test methods, protocols and specifications for devices used to provide eye protection from lasers and laser systems. Testing procedures are provided to ensure that eyewear, windows and barriers maintain their specified level of protection throughout the life of the products.

\$150 | LIA Member Price: \$130

ANSI Z136.8 – Safe Use of Lasers in Research, Development, or Testing (2012)

Print Version Pub# 118A
Electronic Version Pub# 118AE
ISBN# 978-0-912035-95-6



The ANSI Z136.8 standard arose from an increasing reliance on lasers in labs and other research-designated areas. Developed to distinguish it from the parent ANSI Z136.1 *Safe Use of Lasers* document by including two additional hazard analysis areas, beam path and beam interaction, this standard summarizes the proper procedures in unrestricted, restricted, controlled, exclusion and inaccessible locations. In addition, the ANSI Z136.8 allows the use of alignment eyewear, non-certified lasers, export controls, and warning signs. Sample audit forms for labs and program reviews are also included.

\$160 | LIA Member Price: \$140

ANSI Z136.9 – Safe Use of Lasers in Manufacturing Environments (2013)

Print Version Pub# 119
Electronic Version Pub# 119E
ISBN# 978-0-912035-99-4



The ANSI Z136.9 meets a critical need, as lasers continue to populate more processing lines in the aerospace, automotive, energy, defense and health-care industries.

It is intended to protect individuals from potential laser exposure in manufacturing environments, and includes policies and procedures to ensure safety in public and private industries.

\$150 | LIA Member Price: \$130

MASTERING LIGHT: AN INTRODUCTION TO LASER SAFETY & HAZARDS

NEWLY REVISED!



Potential Laser Hazards

- Laser-generated air contaminants
- Electric Shock
- Fire
- Explosion
- Chemical and plasma radiation exposure
- Ergonomic injuries
- Robotic mishaps

Mastering Light: An Introduction to Laser Safety & Hazards

Single User Version Pub# 303_2016
ISBN# 978-1-940168-08-1
Site License Version Pub# 303S_2016
ISBN# 978-1-940168-10-4

Written and produced by LIA, the 2016 version of the *Mastering Light: An Introduction to Laser Safety & Hazards*® video fulfills both the ANSI Z136.1 *Safe Use of Lasers* and the Occupational Safety and Health Administration's (OSHA) laser safety requirements for employees who routinely work with or who potentially could be exposed to Class 3B or Class 4 laser radiation.

With new footage and updated information, *Mastering Light: An Introduction to Laser Safety & Hazards* provides trainees and current employees with the knowledge needed to enter the world of laser safety.

In the ever-changing, fast-paced field of laser technology, Laser Safety Officers (LSOs) must find ways to train new and current employees on necessary safety issues and practices. To aid in this goal, Laser Institute of America (LIA) created *Mastering Light: An Introduction to Laser Safety & Hazards* — a video outlining laser safety in the field. For years, *Mastering Light: An Introduction to Laser Safety & Hazards* has provided LSOs with a training tool that is not only easy to administer, but also effective in properly training employees. To make the 2016 edition of this training tool even easier to access, LIA is offering users a digital version* of the video – available for viewing at www.lia.org – with the purchase of the DVD.

Video features:

- Physics of a laser
- Classification of lasers by hazard potential
- Definition and duties of a laser safety officer
- Beam and non-beam laser hazards
- Clear explanation of labels and signs governing regulations
- Control measures
- Discussion of fiber laser applications
- Revised information and video footage of Class 1M and 2M military lasers
- Updated information on the agencies that regulate laser safety issues
- And more!

In addition, LIA's effective training tool will now be accompanied by a quiz. With this new facet of the program, LSOs can effectively determine employees' understanding of the video's concepts and safety information. LIA is proud to offer the latest version of *Mastering Light: An Introduction to Laser Safety & Hazards* to prepare those working both directly and indirectly with lasers in the field.

Single User Version:
\$495 | LIA Member Price: \$450

Site License Version:
\$895 | LIA Member Price: \$850

*For single user versions only

SAFETY TRAINING GUIDES & AIDS

CLSOs' Best Practices in Laser Safety

Pub# 214
ISBN# 978-0-912035-90-1



50% OFF

CLSOs' Best Practices in Laser Safety concentrates on how to address Class 3B and Class 4 laser hazards and their safe operation. The book is a compendium of procedures, policies and practical advice for laser safety professionals. Twenty BLS Certified Laser Safety Officers — laser experts from the industrial, medical and academic fields — volunteered to create this benchmark reference handbook. An added feature included with the book is the CD-ROM Initial Training and Refresher Training PowerPoint™ presentation for Laser Safety Officers to use to train their facilities' laser users.

Training and Refresher Training PowerPoint™ presentation for Laser Safety Officers to use to train their facilities' laser users.

Discounted Price: \$73 | LIA Member Discounted Price: \$63

Use discount code PUBS16

CMLSOs' Best Practices in Medical Laser Safety

Pub# 212
ISBN# 978-0-912035-93-2



50% OFF

Medical personnel in charge of the safe use of lasers for therapeutic procedures have a valuable tool to help prevent harm to patients and health-care professionals alike. *CMLSOs' Best Practices in Medical Laser Safety* compiles the latest knowledge for establishing a medical laser safety program, including laser safety regulations, how to control and evaluate such programs, and the duties of MLSOs.

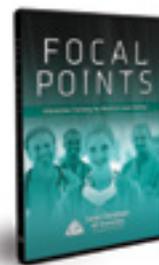
Focusing on topics such as initial LSO duties and responsibilities, beam and non-beam hazards, and factors that determine laser-tissue interaction, the book's contributors, BLS Certified Medical Laser Safety Officers, also address the importance of safety audits once a laser safety program has been established. Packed with useful figures and tables, the book includes samples of a medical laser safety inspection checklist, a laser inventory sheet, a laser procedure record and laser safety audit forms. This book also includes a CD-ROM with a Medical Laser Safety Education Training Module presentation.

Discounted Price: \$60 | LIA Member Discounted Price: \$50

Use discount code PUBS16

FOCAL POINTS – Interactive Training for Medical Laser Safety

Pub# 318
ISBN# 978-0-912035-92-5



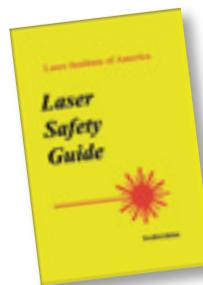
This interactive aide offers a user-friendly training program for medical laser safety officers to use when training their staff. The ANSI Z136.3 *Safe Use of Lasers* in Health Care standard, as well as The Joint Commission and the Occupational Safety and Health Administration, require training for personnel as a component of any laser safety program. This cost-efficient and effective training tool covers the following objectives relating to medical laser safety:

- Understand the basics of laser physics
- Achieve fundamental competency with the use of lasers in medicine
- Learn about different types of health-care laser systems and how they are categorized
- Become familiar with the nature of the interaction of laser radiation and biological tissue
- Understand the potential hazards posed by medical lasers and the control measures used to ensure safety

\$295 | LIA Member Price: \$250

Laser Safety Guide, Twelfth Edition

Pub# 103
ISBN# 978-1-940168-03-6



Revised to comply with the updated ANSI Z136.1-2014 standard, the *Laser Safety Guide* is a fundamental tool for all laser personnel. It outlines potential hazards for all types of lasers and provides easy-to-understand guidelines for controlling laser hazards. The guide is easy to read and provides the essentials needed for a general comprehension of laser safety concepts. Designed to introduce employees and customers to lasers and laser safety, it describes each laser classification and the corresponding control measures necessary to protect users.

\$25 | LIA Member Price: \$20

THE EVALUATOR

LASER SAFETY CALCULATIONS AT YOUR FINGERTIPS!

In 2010, Laser Institute of America (LIA) introduced the world's first web-based Laser Safety Hazard Analysis System, The Evaluator. The web-based Evaluator has proven itself as an integral tool for Laser Safety Officers (LSOs) in the field with its accessibility, easy navigation, and accurate results. In January 2016, LIA unveiled an alternative platform of this innovative program: The Desktop Evaluator.

Both versions of The Evaluator offer users an easy and seamless experience, assisting LSOs of all skill levels to calculate necessary safety calculations in the field. Both versions allow effortless switching of laser settings between CW, Single Pulse, or repetitively pulsed lasers, in addition to the adjusting of the beam profile (circular, elliptical or rectangular).

Now users can choose the format that best meets their specific needs!

Web-based Evaluator



SUBSCRIPTION Monthly Packages

Basic: **\$14.99**
LIA Member Price: **\$9.99**

Intermediate: **\$34.99**
LIA Member Price: **\$29.99**

Advanced: **\$69.99**
LIA Member Price: **\$59.99**

This innovative System provides a reliable way to easily double-check laser safety calculations. It is based on the ANSI Z136.1 American National Standard for Safe Use of Lasers and will perform repeated calculations of maximum permissible exposure (MPE), optical density (OD), nominal ocular hazard distance (NOHD), nominal hazard zone (NHZ), and laser hazard classification.

Accessible anytime, anywhere, from any computer with an Internet connection, you can do your laser safety calculations on the go! This system is compatible across all platforms including Mac, PC and other major operating systems.

The web-based Evaluator is flexible with three monthly subscription levels to choose from. Users can easily upgrade or downgrade their subscription level at any time.

FREE TRAIL AVAILABLE ON LSEVAL.COM

Desktop Evaluator

Pub# 319
ISBN# 978-1-940168-09-8



Unlike the web-based system, the Desktop Evaluator is delivered on a USB drive, from which users can download the program to their computer. As a software program stored on the computer, the Desktop Evaluator eliminates the need for Internet access.

Just like the web-based version, the Desktop Evaluator performs a number of repeated calculations based on the ANSI Z136.1-2014 American National Standard for Safe Use of Lasers, including maximum permissible exposure (MPE), optical density (OD), nominal ocular hazard distance (NOHD), nominal hazard zone (NHZ) and laser hazard classification.

Compatible with Windows 7, 8 or 10 PDF viewer, the easily downloadable program — which closely resembles the web-based version's Advanced subscription level — lives on your computer, offering constant, uninterrupted access.

\$595 | LIA Member Price: \$550

For more information, visit www.LSEval.com

CHOOSE WHICH EVALUATOR VERSION BEST MEETS YOUR NEEDS!

	Free OD*	Basic	Intermediate	Advanced	Software
Wavelength		x	x	x	x
Energy/Power		x	x	x	x
Pulse Width		x	x	x	x
PRF		x	x	x	x
Beam Configurations: Circular, Elliptical, Rectangular, Gaussian, Tophat			x	x	x
Focused Beams			x	x	x
Source Size				x	x
Classification		x	x	x	x
Exposure Time			x	x	x
Range				x	x
Aided Viewing				x	x
Atmospheric Attenuation				x	
Limiting Aperture				x	x
MPE Eye		x	x	x	x
MPE Skin		x	x	x	x
Maximum OD	x		x	x	x
OD at Range				x	x
NOHD		x	x	x	x
NHZ		x	x	x	x
Reflections			x	x	x
Laser Barriers			x	x	x
Eye Experiments		x	x	x	
Skin Experiments			x	x	
Laser Database/Inventory				x	
Reports (PDF)			x	x	x
Performs calculations without Internet					x
Subscription Based		x	x	x	
Automatic Updates	x	x	x	x	

FOR MORE INFORMATION, VISIT LSEVAL.COM.

APPLICATIONS

LIA Guide to High Power Laser Cutting

COMING SOON!

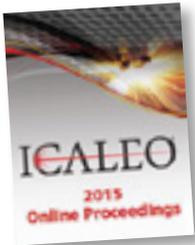


High power laser cutting is a continuously developing field, so the LIA have commissioned a team of authors lead by John Powell (UK) and Dirk Petring (Germany) to put together a completely up-to-date guide to the subject. This new book discusses the pros and cons of CO₂ and Fiber laser cutting machines – from productivity differences to maintenance issues. With lots of useful illustrations and chapters on cutting quality, cut speeds and commercial considerations,

this book is a must for anyone interested in laser cutting – from job shop owners to engineering students.

2015 ICALEO Conference Proceedings (Electronic Access)

Pub #618
ISBN#978-1-940168-05-0



The 34th International Congress on Applications of Lasers & Electro-Optics (ICALEO® 2015) Conference Proceedings includes all submitted manuscripts from ICALEO (Plenary Sessions, Laser Materials Processing, Laser Microprocessing, Nanomanufacturing and Poster Presentations). ICALEO 2015 Proceedings are available online only.

\$180 | LIA Member Price: \$150

See the LIA website for previous years' proceedings at reduced rates!

ILSC 2015 Conference Program & Proceedings

Pub #505
ISBN#978-1-940168-04-3



The ILSC® 2015 Conference Proceedings combines the onsite program and overviews of the Medical and Technical Practical Application Seminars, along with the abstracts and manuscripts of the Laser Safety Scientific Sessions. The conference, chaired by Dr. John O'Hagan, covered a wide range of topics from basic bioeffects to very practical offerings.

\$119 | LIA Member Price: \$99

See the LIA website for previous years' proceedings at reduced rates!

LIA Handbook of Laser Materials Processing

Pub #105
ISBN#978-0-912035-15-4



The *LIA Handbook of Laser Materials Processing* is a working reference source that provides extensive data on procedures, processes, equipment, processing systems and processing results. It's all here, packaged into one large easily searchable volume.

\$28 | LIA Member Price: \$25

Whether you missed one of LIA's premier laser conferences, or you would like to study every last laser detail, you'll find our collection of individual papers to be a great reference tool. A selection of papers submitted through our various events: ICALEO, PICALO, ILSC are available for purchase. These papers include research and technology topics on lasers and laser applications.

www.lia.org/store/Conference+Proceedings



Search Submitted Abstracts

Search Journal Papers



You can also search for individual papers from the *Journal of Laser Applications (JLA)*. JLA is the official journal of the Laser Institute of America and serves as the major international forum for exchanging ideas and information in disciplines that apply laser technology.

PRODUCT LISTING

PUB#	TITLE	NON-MEMBER	MEMBER
103	Laser Safety Guide	\$25	\$20
105	LIA Handbook of Laser Materials Processing	\$28	\$25
106	ANSI Z136.1 Safe Use of Lasers	\$193	\$173
106E	ANSI Z136.1 Safe Use of Lasers - Electronic Version	\$193	\$173
112	ANSI Z136.2 Safe Use of Optical Fiber Communication Systems Utilizing Laser Diode and LED Sources	\$150	\$130
112E	ANSI Z136.2 Safe Use of Optical Fiber Communication Systems Utilizing Laser Diode and LED Sources - Electronic Version	\$150	\$130
113	ANSI Z136.3 Safe Use of Lasers in Health Care	\$150	\$130
113E	ANSI Z136.3 Safe Use of Lasers in Health Care - Electronic Version	\$150	\$130
114	ANSI Z136.5 Safe Use of Lasers in Educational Institutions	\$99	\$79
114E	ANSI Z136.5 Safe Use of Lasers in Educational Institutions - Electronic Version	\$99	\$79
115	ANSI Z136.7 Testing and Labeling of Laser Protective Equipment	\$150	\$130
115E	ANSI Z136.7 Testing and Labeling of Laser Protective Equipment - Electronic Version	\$150	\$130
NEW! 116_2015	ANSI Z136.6 Safe Use of Lasers Outdoors	\$150	\$130
116E_2015	ANSI Z136.6 Safe Use of Lasers Outdoors - Electronic Version	\$150	\$130
117	ANSI Z136.4 Recommended Practice for Laser Safety Measurements	\$150	\$130
117E	ANSI Z136.4 Recommended Practice for Laser Safety Measurements - Electronic Version	\$150	\$130
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118AE	ANSI Z136.8 Safe Use of Lasers in Research, Development, or Testing - Electronic Version	\$160	\$140
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119E	ANSI Z136.9 Safe Use of Lasers in Manufacturing Environments - Electronic Version	\$150	\$130
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214	CLSOs' Best Practices in Laser Safety	\$146 \$73	\$126 \$63
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303S_2016	Mastering Light – Site License Version	\$895	\$850
318	Focal Points: Interactive Medical Laser Safety Training	\$295	\$250
NEW! 319	The Evaluator – Desktop	\$595	\$550
502	ILSC 2009 Proceedings	\$25	\$20
504	ILSC 2013 Proceedings	\$99	\$99
505	ILSC 2015 Proceedings	\$119	\$99
616	ICALEO 2013 Proceedings	\$135	\$115
617	ICALEO 2014 Proceedings (Electronic)	\$180	\$150
618	ICALEO 2015 Proceedings (Electronic)	\$180	\$150

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LIA MEMBER NUMBER: _____				

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Address: _____

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Phone: _____ Fax: _____ Email: _____