The LIA is dedicated to fostering lasers, laser applications and laser safety worldwide.

LIA cultivates innovation, ingenuity and inspiration to promote the continued growth and safe use of laser applications.

At the Laser Institute of America (LIA), we believe in the importance of sharing new ideas about lasers. In fact, laser pioneers such as Dr. Arthur Schawlow and Dr. Theodore H. Maiman were among LIA’s original founders who set the stage for our enduring mission to promote laser applications and their safe use through education, training and symposia.

LIA was formed in 1968 by people who represented the heart of the profession—a group of academic scientists, developers and engineers who were truly passionate about taking emerging laser technology and turning it into a viable industry.

Educating the World on Laser Applications and Safety

Today, this unwavering dedication continues to propel LIA as we meet the growing demand for continuing education and safety training. LIA trains more Laser Safety Officers than any other organization in the world. We are also proud to offer flexible and convenient learning options including online training, in the classroom, or even on-site.

One of LIA’s signature events is the International Congress on Applications of Lasers & Electro-Optics (ICALEO®), which is viewed as the premier source of technical information in the field. As the market demand for laser applications continues to rise globally, LIA’s Pacific International Conference on Lasers and Optics (PICALO) has become increasingly popular. Laser safety experts from all over the world meet at the International Laser Safety Conference (ILSC®) and significant impacts on the widespread industrial implementations of laser additive manufacturing continue to be shared at LIA’s Laser Additive Manufacturing Workshop (LAM).

Serving the Laser Community

Recognized as the international society for laser applications and safety, LIA serves industrial, educational, medical, research and government communities across the globe. Our members are comprised of laser researchers, manufacturers, integrators and end users—all working together to increase the use and safe application of laser technologies.

Setting the Standard

To further enhance LIA’s mission of fostering lasers, laser applications and laser safety worldwide, it serves as the secretariat and publisher of the American National Standards Institute (ANSI) Z136 series of laser safety standards. These standards constitute the foundation of laser safety programs nationwide.

Become Part of the LIA Experience

Whether you are new to the world of lasers or an experienced laser professional, LIA is for you. We offer a wide array of products, services, education and events to enhance your laser safety knowledge and expertise. As an individual or corporate member, you will qualify for significant discounts on LIA materials, training courses and the industry’s most popular LIA conferences. We invite you to become part of the LIA experience—cultivating innovation, ingenuity and inspiration.
The parent document and cornerstone of the Z136 series of laser safety standards, the revised ANSI Z136.1 provides guidance for the safe use of lasers and laser systems by defining control measures for each of the four laser classes. As a result of advances in laser devices and applications, new guidelines have been incorporated into this 2007 revision. The new revision should be obtained by all laser end users and is a must for users of class 3B and 4 lasers as it renders the previous version obsolete. Since the ANSI Z136.1 standard is the foundation of laser safety programs for industrial, military, medical and educational applications nationwide, revisions to the previous version can and will affect the training and practice of laser safety in these environments. Changes to the previous version include the addition of new laser hazard classification definitions, new requirements for refresher training and changes to medical surveillance requirements. The ANSI Z136.1 standard provides an updated and thorough set of guidelines for implementing a safe laser program; in addition to these changes, the standard covers laser safety program provisions including the duties and responsibilities of the LSO, non-beam hazards, administrative/engineering control measures, definitions, optical density, nominal hazard zone (NHZ), MPEs, accessible emission limit (AEL), bioeffects, standard operating procedures (SOPs) and example calculations (softbound, 276 pages). Electronic version also available - Pub #106AE. Member Price: $173 / Non Member Price: $193.

The ANSI Z136.3 is recognized as the definitive document on laser safety in all health care environments. Today, lasers are used throughout many different areas of medicine, including gynecology, neurosurgery, general surgery, dermatology, urology, ophthalmology, gastroenterology, anesthesiology, podiatry, dentistry, orthopedics, perioperative services, and more. This standard provides guidance for the safe use of lasers used for diagnostic, cosmetic, preventative and therapeutic applications in any location where bodily structure or function is altered or symptoms are relieved. Lasers used in these applications are comprised of a delivery system, a power supply, mechanical housing and associated liquids and gases as required for operation of the laser. All personnel associated with the installation, operation, calibration and maintenance of the health care laser system should perform in accordance with the ANSI Z136.3. It is a must for hospitals, medical centers, spas, veterinary clinics and other health care facilities using lasers! The standard is designed to be used in conjunction with the ANSI Z136.1 (softbound, 82 pages). Electronic version also available – Pub #113E. Member Price: $152 / Non Member Price: $172.

This recommended practice document contains clearly written definitions, examples and other practical information for laser safety officers, technicians, medical practitioners, educators and other professionals. The comprehensive guide represents years of effort by laser safety experts representing the Department of Defense, Department of Energy, the Food and Drug Administration, National Institute of Standards and Technology, industrial laser manufacturers, laser operators, academic contributors and others. Intended to be used in conjunction with the ANSI Z136.1 (soft bound, 82 pages). Electronic version also available – Pub #117E. Member Price: $152 / Non Member Price: $172.

The standard applies the requirements of the ANSI Z136.1 for Safe Use of Lasers to the unique environments associated with educational institutions. Such settings include teaching laboratories, classrooms, lecture halls, science fairs, and science museums, which have incorporated lasers into their educational process. It is intended for staff and students using lasers for academic instruction in university, college, secondary or primary educational facilities. 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. Intended to be used in conjunction with the ANSI Z136.1 (soft bound, 56 pages). Member Price: $79 / Non Member Price: $99.

This set includes the ANSI Z136.1 Safe Use of Lasers and the ANSI Z136.3 Safe Use Lasers in Health Care Facilities. Electronic version also available. Member Price: $294 / Non Member Price: $336.

The objective of this standard is to provide reasonable and adequate guidance on the test methods, protocols and specifications for devices used to provide eye protection from lasers and laser systems. Testing procedures are provided in this document to ensure that eyewear, windows and barriers maintain their specified level of protection throughout the life of the products. Such protective devices include laser eye protective devices or instrument filters, laser window filters, and laser area protective barriers, screens or beam blocking curtains. Depending on the protective device, laser type, temporal mode of operation and wavelength(s), different test methods may be required. (soft bound, 60 pgs). Electronic version also available – Pub #115E. Member Price: $131 / Non Member Price: $151.

This set includes the ANSI Z136.1 Safe Use of Lasers and the ANSI Z136.3 Safe Use Lasers in Health Care Facilities. Safe Use Lasers Outdoors. Electronic version also available. Member Price: $236 / Non Member Price: $273.

This set includes the ANSI Z136.1 Safe Use of Lasers and the ANSI Z136.3 Safe Use Lasers in Health Care Facilities. Safe Use Lasers Outdoors. Electronic version also available. Member Price: $294 / Non Member Price: $336.

This set includes the ANSI Z136.1 Safe Use of Lasers and the ANSI Z136.4 Recommended Practice for Laser Safety Measurements for Hazard Evaluation. Electronic version also available. Member Price: $294 / Non Member Price: $336.

This set includes the ANSI Z136.1 Safe Use of Lasers and the ANSI Z136.4 Recommended Practice for Laser Safety Measurements for Hazard Evaluation. Electronic version also available. Member Price: $273 / Non Member Price: $315.
PUB #215 LASER SAFETY TOOLS AND TRAINING
KEN BARAT - CRC PRESS

Designed for use as either a stand-alone volume or supplement to Laser Safety Management, this text includes the fundamental laser and laser safety information from its companion text, yet its depth and breadth make it appropriate for both the seasoned professional as well as the novice. Written by a working Laser Safety Officer (LSO), it presents case studies of real accidents and templates for documenting potential laser risks and attendant safety measures. This guide presents simple, effective ways for users in a variety of facilities to evaluate the hazards of any laser procedure and ensure they are following documented laser safety standards (hardcover, 277 pages). Member Price: $140 / Non Member Price: $160.

PUB #103 LASER SAFETY GUIDE, 11TH EDITION
ISBN# 978-0-912035-06-2

As a result of advances in laser devices and applications, this eleventh edition of The Laser Safety Guide has been completely updated to incorporate the major changes from the recently revised ANSI Z136.1 (2007) Safe Use of Lasers standard. The Laser Safety Guide is a handbook 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 reader with the essentials needed for a general comprehension of laser safety concepts. Designed to introduce employees and customers to lasers and laser safety, it details each laser classification and the corresponding control measures used to protect laser users. (11th Edition, Soft bound 50 pgs.) Member Price: $22 / Non Member Price: $27.

PUB #104 GUIDE FOR THE SELECTION OF LASER EYE PROTECTION, 6TH EDITION
ISBN# 978-0-912035-08-6

Revised and completely updated to include guidelines from ANSI Z136.1 (2007) Safe Use of Lasers and all new information regarding available laser safety eyewear and eye protection products. This guide is designed to aid the laser user in selecting adequate protection and finding appropriate eyewear products. The Guide for the Selection of Laser Eye Protection features a simplified five-step process for determining the correct type of laser eye protection. Also included is general information and guidelines to follow when considering laser eye protection. The guide assists the user in determining the eyewear needed, comparing competitor’s products, and finding appropriate laser eye protection suppliers (soft bound, 98 pages). Member Price: $22 / Non Member Price: $27.

PUB #209 LASER SAFETY MANAGEMENT
ISBN# 978-0-8247-2307

The book defines the three elements of laser safety: users, the laser safety officers and incidental personnel. It covers the types of laser injuries, standard operating procedures to ensure safety, tips and tools to avoid pitfalls, training, control measures and personal protection equipment. The author explores the Laser Safety Officer position and delineates the required elements of effective SOPs. He also discusses non-beam hazards, includes practical control examples and sample forms, and covers U.S. and European regulations and standards (hard bound 267 pages). Member Price: $130 / Non Member Price: $150.

PUB #204 & #204E LIA’S LASER SAFETY MANUAL
ISBN# 978-0-912035-83-8

LIA’s Laser Safety Manual is designed to help those responsible for laser safety at their facility. Whether you are in the medical or industrial fields, this manual is the perfect guide in making your laser safety program a success. The purpose of this manual is to serve as a reference source for users of Class 3B and Class 4 lasers, provide basic laser safety information, and create an awareness of the rules, regulations and procedures governing the safe use of lasers. The manual includes sections on laser safety program administration, basic concepts, laser hazards, laser controls and protective eyewear. It also includes sample forms and documents to help assist you in setting up a complete standard operating procedure (spiral bound, 63 pages). Electronic version also available. Member Price: $79 / Non Member Price: $89.

PUB #214 CLSO’S BEST PRACTICES IN LASER SAFETY
ISBN #978-0-912035-90-1

CLSO’s 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 to be used by laser safety professionals. An international team of twenty laser safety experts and Certified Laser Safety Officers from the industrial, medical and academia fields volunteered their time and effort to create this benchmark reference handbook. The different chapters in this handbook cover areas of laser safety practices that are typically needed in the anticipation, recognition, evaluation and control of laser hazards as well as the rules and regulations that exist. In addition, there are laser-related accident case histories with training tools and “lesson learned” sources. 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. (Soft bound, 181 pages) Member Price: $126 / Non Member Price: $146.
**PUB #303 MASTERING LIGHT: AN INTRODUCTION TO LASER SAFETY & HAZARDS – DVD**

New version! As a cost-efficient and effective training tool, Mastering Light serves as an excellent resource for laser safety officers who are tasked with one of the most significant responsibilities in the organization—training new employees and keeping the team updated on current safety issues and practices. Laser operators, researchers and students will also benefit from the DVD’s helpful overview of laser safety.

Written and produced by LIA, the Mastering Light DVD fulfills both the ANSI Z136.1 Safe Use of Lasers and the Occupational Safety and Health Administration’s (OSHA) training requirements for employees working with or around Class 3B or Class 4 lasers and laser systems.

Presented in an easy-to-understand format, this 23-minute DVD covers the basic fundamentals of laser safety including beam hazards, control measures, bioeffects, classifications, non-beam hazards, and much more. This comprehensive DVD will enable the LSO to expand their knowledge, easily train others (even those not working directly with lasers), and contribute to a safer work environment. Member Price: $400 / Non Member Price: $450.

**Site License Version is Available!**

Pub #303S - This comprehensive site license DVD will enable the LSO to expand their knowledge, easily train others (even those not working directly with lasers), and contribute to a safer work environment. Call the LIA for more details. Member Price: $1,150 / Non Member Price: $1,200.

**Online Video Version Available!**

Pub #303O - 24 hour access to the Mastering Light Online Video upon activation. This is a single user version only. Member & Non Member Price: $50.

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**PUB #210 LIA’S LASER SAFETY ADMINISTRATION PACKAGE**

ISBN# 978-0-912035-87-1

This interactive CD is intended for anybody responsible for setting up and maintaining a laser safety program in an industrial or research facility. It includes the tools necessary for setting up a laser safety program, especially the new LSO. Whether you are starting from scratch or want to be sure you have all the components for a solid program, this product is for you. Member Price: $150 / Non Member Price: $195.

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**PUB #316 LIA’S ADVANCED LASER HAZARD EVALUATOR SOFTWARE®**

ISBN # 978-0-912035-80-3

Revised and expanded, this software package is equipped with more features for the advanced LSO. Based on the ANSI Z136.1 (2007) Safe Use of Lasers standard, this product 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. Member Price: $450 / Non Member Price: $495.

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**PUB #315 LIMITS FOR INDUSTRIAL LASER SAFETY - INTERACTIVE TRAINING CD**

This interactive training CD-ROM is designed for the LSO to train others on the safe use of lasers in the industrial or research environment. LIMITS follows the training recommendations set out in the ANSI Z136.1 (2007) Safe Use of Lasers standard and the IEC 60825-1 International Laser Safety Standard. The material is presented through interstice screens and video clips. Switching from one option to the other is easy and both are available for every topic. LIMITS also contains a glossary that provides a collection of more than 200 definitions relevant for laser applications and laser safety. At the end of the course, a test section allows you to check your level of acquired knowledge. The CD is a plug and play designed for single users. Member Price: $400 / Non Member Price: $450.
LABEL COLOR SCHEMES:

- **DANGER** labels have white print inside a red box on a white background. Black print on a white backing and a laser burst that is red.
- **CAUTION** labels have black print on a yellow backing. Laser burst is black.

LASER PRODUCT & EQUIPMENT LABELS

Logotype equipment labels are 2” x 2.5” in size and the aperture label is 0.5” x 1.25.” Both follow the ANSI Z136.1 and FDA/CDRH recommendations and requirements. Labels can be customized in typewriters and can be ordered by the classification of the laser or laser system. Quantity discounts are available.

APERTURE LABEL

Aperture labels are available for $1.50 each for members, $1.75 for Non Members. Minimum of 10 labels per order.

All prices subject to change at any time without notice.
LASER AREA WARNING SIGNS

ANSI Z136.1 for Safe Use of Lasers indicates that laser area warning signs should be posted around Class 2M and 3R laser areas and is required to be posted around all Class 3B and 4 laser areas. Additionally, NOTICE signs are required for Class 3B and Class 4 lasers during maintenance, servicing, and similar situations. LIA has a laser area warning sign for any type of laser. LIA signs are 10” x 14” in size and are available in plastic. All signs meet the ANSI Z136.1 requirement for laser safety and can be customized with your laser’s specifications and warning statements for only $5.00 per sign. Quantity discounts are available. Minimum 10 signs of each customization.

CLASS 3B LASER SIGNS

CLASS 4 LASER SIGNS

CLASS 3R LASER SIGNS

CLASS 2M LASER SIGNS

TEMPORARY CONTROLLED AREA AND BLANK SIGNS

All prices subject to change at any time without notice.
PUB #124 HYBRID LASER-ARC WELDING

Welding is one of the main industrial applications of high power laser systems. When paired with traditional arc welding, the laser becomes an even more valuable tool for welding, able to perform a wide variety of industrial functions. This book provides a comprehensive review of hybrid laser-arc welding technology and its applications, as well as a summary of recent research involving the hybrid welding process.

The book is divided into two main parts: The first part reviews fundamentals and characteristics of the hybrid laser-arc welding process, including chapters on the properties of joints produced by the process and methods of assessing weld quality. The second part of the book discusses the applications of the technology, including shipbuilding and industrial robotic applications, as well as hybrid laser-arc welding as it is used in the processing of magnesium alloys, aluminum and steel. With its distinguished editor and international team of contributors, Hybrid laser-arc welding is a valuable source of reference for all those using this important welding technology. (323 pages )

Member Price: $225 / Non Member Price: $245.

PUB #123 LASERS: THE PERIOPERATIVE CHALLENGE, 3rd EDITION


This resource provides valuable insight into the responsibilities of nursing personnel in virtually every laser procedure and includes a section on the administrative aspects of a laser program, from forming the program to financing and staff member education. It also discusses various laser systems used by health care professionals, laser biophysics, laser safety, and significant updates on specialties in which laser use has changed dramatically during the past five years (475 pages). Member Price: $25 / Non Member Price: $29.

PUB #236 PERIOPERATIVE STANDARDS AND RECOMMENDED PRACTICES, 2009 ED., ISBN 1-888460-98-0

When you need the most trusted resource for perioperative practice, look no further than AORN’s classic reference - Perioperative Standards and Recommended Practices, 2009 Edition - which brings together all of the Association’s official positions and recommendations for perioperative nursing ranging from professional practice standards to laser safety, patient positioning to environmental cleaning, clinical pathways to patient safety. The 2009 Edition features two revised recommended practices for cleaning and processing flexible endoscopes and endoscope accessories and high-level disinfection. In addition, a sample policy and procedure template and two sample policies for Moderate Sedation and Patient Positioning are included to help you integrate the recommended practices into your facility (711 pages).

Member Price: $168 / Non Member Price: $188.
Laser Institute of America is proud to announce to availability of all peer reviewed papers from the Journal of Laser Applications from year 2002 through 2009, as well as papers from LIA conferences, in its online Paper Library! The following conference papers are represented in the library:

- Pacific International Conference on Applications of Lasers and Optics (PICALO) 2006 & 2008
- International Laser Safety Conference (ILSC®) 2007 & 2009

Over 1300 papers are available in the library at a cost of $25.00 member and $28.00 non-member each paper. Site Licenses are available - please contact LIA’s Publications Department for further information.

PUB #612 ICALEO® 2009
Proceedings on CD
Congress General Chair:
Xinbing Liu, Panasonic Boston Laboratory, Cambridge, MA USA

The 28th International Congress on Applications of Lasers & Electro-Optics (ICALEO) 2009 Congress Proceedings includes all submitted papers for three conferences on Laser Materials Processing, Laser Microprocessing, and Nanomanufacturing. This CD also includes papers from the Plenary Session on Frontiers and Challenges for the Green Economy and new to this year the Closing Plenary which focused on Microprocessing Applications in Automotive and Aerospace Industries.

The Laser Materials Processing Conference covered sessions for all industries on topics such as Hybrid Welding, Surface Modification, Laser Systems and Optics, Welding Lite Metals and Dissimilar Materials, Cutting, Welding Systems and Process Improvements, Additive Manufacturing, Machining, Process Modeling, Drilling and more.

The Laser Microprocessing Conference continued its reputation as the global forum for scientists and engineers discussing the fabrication of parts and components and; processing of materials with micrometer sized dimensions and precision by various lasers. This session covered topics such as Advanced Laser Sources and Systems, Pulse-shape and Burst-train Control of Laser Interaction, Microstructuring and Dicing of Brittle Material, Biomedical Applications, Laser Machining, Laser Micro Welding, Laser Microprocessing of Functional Devices, Additive Manufacturing of small components, Solar-cell Production and more.

The Nanomanufacturing Session focused on optical technologies in 2009 and covered topics on Near-field Processing, Nanoprocessing and Nanoparticle Fabrication, Laser Growth and Interaction with Nanostructures and more. Member Price: $195 / Non Member Price: $225.

PUB #611 ICALEO® 2008
Proceedings on CD
The ICALEO 2008 Congress Proceedings includes all submitted papers for three conferences on Laser Materials Processing, Laser Microprocessing, and Nanomanufacturing. The Laser Materials Processing Conference covers a number of highlighted sessions such as Direct Metal Deposition Process, Unique Plastic Processing, Optics for Laser Material Processing, Hybrid Welding, Welding by High Brightness Lasers, and Welding for Automotive and Aerospace Industries. The CD also includes a special session organized to recognize the lifetime achievements by Prof. William M. Steen. The Laser Microprocessing Conference on the CD addresses special interests in processes and systems for microscopic applications, including highlighted sessions such as Laser Micro-Drilling and Dicing, Laser Bio-medical Applications, Laser-assisted Micro-deposition, Ultrafast Laser Processing, and Laser-induced Ablation and Breakdown. A joint session was organized, with the Laser Materials Processing Conference, to address the issues in laser micromachining. Member Price: $195 / Non Member Price: $225.

PUB #402 PICALO 2008
Proceedings on CD

The PICALO 2008 Proceedings CD includes more than 150 papers presented at the 3rd Pacific International Conference of Lasers and Optics in Beijing, China.

Gain a global perspective with the PICALO 2008 Proceedings CD. PICALO focuses on the growth and application of lasers and optics in the Pacific region. Researchers, engineers, suppliers and industry professionals from around the world gather at this unique event to share knowledge, experiences and their vision for the future.

PICALO is comprised of two great conferences, each packed with the latest developments and progress in lasers and applications. The CD features papers from the Laser Materials Processing conference and the Micro, Nano and Ultrastat Machining conference.

1) The Laser Materials Processing Conference
Take your understanding of laser materials processing to a whole new level. Discover the latest developments from across the world in laser cutting/machining, surface modification, welding, additive manufacturing, lasers and systems, modeling and simulation, drilling and forming, and industrial applications.

2) The Micro, Nano and Ultrafast Machining Conference
With a focus on the most innovative laser technology, you’ll learn the latest about micro/nano/ultrafast fabrication in opto- and microelectronics, electronics, Microsystems, material processing and biomedical industries.

Member Price: $100 / Non Member Price: $110.

PUB #502 ILSC® 2009
Proceedings (Soft Bound Book)
The 2009 International Laser Safety Conference (ILSC) Proceedings and Program covers the comprehensive four-day conference on all aspects of laser safety practice and hazard control. All Technical sessions and workshops that addressed developments in regulatory, mandatory and voluntary safety standards for laser products and for laser use are included.

Also included in the 2009 Proceedings is the Laser Safety Practical Applications Seminar, which was a 2-day seminar for the practical Laser Safety Officer. This seminar was particularly useful for the Laser Safety Officers who are not full-time laser safety professionals. Participants were involved in practical interactive workshops, panel discussions, and hot topics addressing the more common safety issues and concerns of the day to day operations in commercial, factory, research, and medical facility settings. Member & Non-Member Price: $95.
## Winter 2010 Publications Pricing

Prices subject to change at anytime without notice.

For further information or to place an order, call 1.800.34.LASER or visit us on the web at www.LaserInstitute.org.

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### Additional Items

- Signs (Plastic) | $33 | $39
- Blank Signs (Plastic) | $28 | $33
- Signs (Aluminum and Magnetic) | $10 | $10
- Blank Signs (Aluminum and Magnetic) | $10 | $10
- Aperture Labels | $1.50 | $1.75
- Labels | $2.00 | $2.25

Order online at LaserInstitute.org or call 1.800.34.LASER.

Prices subject to change at anytime without notice.
### ORDER FORM

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**□ SIGN ME UP AS AN LIA MEMBER**

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### BILLING ADDRESS

- **Prof.**
- **Dr.**
- **Mr.**
- **Mrs.**
- **Ms.**

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Organization ____________________________________________________________  Title ___________________

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- **Dr.**
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**□ Check here if shipping address is same as billing**

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*Shipping and service charges will be added to all orders. Residents of Florida and California must add sales tax and surtax where applicable. Payment must accompany orders for Non Members of Laser Institute of America. For orders outside of the U.S., prepay via proforma invoice. All orders payable in U.S. dollars only and checks drawn on a U.S. bank.

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