The American National Standards Institute (ANSI) Z136 family of documents continues to serve as the core for all other professional and regulatory standards across the United States. They reflect the prudent conscience of management especially in the medical setting. However, the old saying of ‘leading the horse to water’ has never proven truer. The practical application of the ANSI Z136.3 Safe Use of Lasers in Health Care Facilities, the resultant documents, and implementation for new aesthetic/cosmetic procedures has never been more sporadic or disjoined.

Let’s take a moment to go back to the core of laser use and regulation. The original Z136.3 was developed in a world where medical lasers were used almost exclusively, with the exception of ophthalmics, in a hospital operating room. In the hospital setting laser regulation and use followed the tried and true policy relating to Standard of Care. As the lasers left the main OR and ventured into the day surgery arena the level and standard of care, education, record-keeping and implementation had to be the same. JCAHO and other organizations monitored just such things in their review. Even as the lasers found their way into the new free-standing surgery centers of the early 1990s the standard and the
LIA TODAY is published bimonthly and strives to educate and inform laser professionals on laser safety and new trends related to laser technology. LIA members receive a free subscription to LIA TODAY and the Journal of Laser Applications® in addition to discounts on all LIA products and services.

The editors of LIA TODAY welcome input from their readers. Please submit news-related releases, articles of general interest and letters to the editor. Mail us at LIA TODAY, 13501 Ingenuity Drive, Suite 128, Orlando, FL 32826, fax 407.380.5588, or send material by e-mail to lia@laserinstitute.org.

If you are interested in affordable advertising space in this newsletter or a subscription, please contact Jim Naugle at 407.380.1553 or 1.800.34.LASER.

LIA Institute of America (LIA) is the professional society dedicated to fostering lasers, laser applications and laser safety worldwide. LIA is the secretariat and publisher of the ANSI Z136 series of laser safety standards, and is a leading provider of laser safety education.

LIA offers educational programs, conferences and symposia on the applications of lasers and electro-optics. LIA's annual International Congress on Applications of Lasers & Electro-Optics (ICALEO®) features the world's foremost meeting on laser materials processing. The biennial International Laser Safety Conference (ILSC®) covers all aspects of laser safety practice and hazard control.

If you would like more information about the LIA, call 407.380.1553, 1.800.34.LASER or visit our home on the Web: www.laserinstitute.org.

LIA’s Calendar of Events
For more information contact LIA at 1.800.34.LASER or visit www.laserinstitute.org

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
<th>Location</th>
</tr>
</thead>
</table>
| Laser Safety Officer Training | July 17-19 • Milton (Toronto) ON, Canada  
Aug. 7-9 • Denver, CO  
Dec. 4-6 • Orlando, FL |
| Laser Safety Officer with Hazard Analysis | Sept. 18-22 • San Francisco, CA  
Oct. 30-Nov. 3 • Scottsdale, AZ  
Feb. 5-9, 2007 • Orlando, FL  
Mar. 26-30, 2007 • San Diego, CA |
| Medical Laser Safety Officer Training | Sept. 22-23 • Boston, MA  
Nov. 10-11 • Las Vegas, NV  
Jan. 26-27, 2007 • San Diego, CA |
| Laser Safety in the Lab | Aug. 14-15 • Orlando, FL |
| Medical Aesthetic Lasers & Light Technologies | Aug. 19-20 • Denver, CO  
Sept. 16-17 • Boston, MA  
Oct. 14-15 • Chicago, IL  
Nov. 18-19 • Houston, TX |
| ICALEO® 2006 | Oct. 30-Nov. 2 • Scottsdale, AZ |
| ILSC® 2007 | Mar. 19-22 • San Francisco, CA |

For a complete list of LIA corporate members, visit our corporate directory online at www.laserinstitute.org.
WILSON’S COMPLETE
LASER PROTECTION

Wilson offers One-Stop-Shopping for all your laser protection needs.

Of course, the Flagship of the Wilson line is the **Laz-R-Barrier(r)** — superior to all other laser curtains.

That’s because **Laz-R-Barrier(r)** protection curtains contain reflective laser radiation and broadband optical radiation from laser plumes. These curtains protect against accidental and chronic eye and skin irritation that can result from exposure to reflective laser beams.

**Laz-R-Barrier** is flexible, drapable and can be fabricated in most curtain sizes and shapes. When supported on Wilson’s easy rolling track framework, the curtains are compatible with inter-locking circuits.

Wilson also offers a variety of **Laser Eyewear**, designed for added protection for both operators and those nearby. This fine quality Eyewear prevents eye injury from errant laser beams.

No matter what your needs may be, Wilson has the product line to fulfill your Industrial and Medical laser safety requirements.

Whether it’s Optical Table Barriers, Roller Shades, Window Shades, Beam Stops, Signs, Illuminated Signs or Door Stops, **Wilson has it all.**
Laser Safety Eyewear

VIEW-IT™ IR & UV Detectors

EVER-GUARD® High Power Barriers & Curtains

ENTRY-GUARD™ Safety Interlock Systems

Laser Diode Modules

TRAP-IT™ Beam Dumps

Pump Chambers

Enclosure Systems

ZAP-IT® Alignment Paper

SERVICE-RIGHT™ Portable Barrier Systems

KENTEX
Laser People Making Laser Safer
800 432 2323
+1 603 435 5580
www.kentek.com

Laser Safety Solutions • Laser Accessories • Laser Replacement Parts
It has been a big year for the LIA. As always the LIA staff has been hard at work. Thanks to Peter Baker and the talented LIA staff, your LIA continues the tradition of developing new and vital resources for members like you. There are two developments of particular note. These include the acquisition of ALAW and the continued development of our regional LIA chapters.

Earlier this spring the LIA announced the acquisition of the ALAW conference. The conference was purchased jointly and will be operated in cooperation with the FMA. The acquisition was undertaken as part of the ongoing LIA strategy to bring more resources to the laser end-user. Mark your calendars for the 2007 conference to be held in Plymouth, Michigan next April.

Recently I had the pleasure of attending a meeting of the Northeast Regional Chapter of the LIA. The meeting was hosted by Bo Gu of GSI Lumonics in Bedford, Massachusetts. We enjoyed cocktails, a wonderful dinner and an engaging presentation on nanotechnology.

LIA regional chapters provide a wonderful opportunity for local laser users to network on a regular basis. In addition to the Northeast Chapter, chapters have been formed in California and Michigan. If there is a regional chapter in your area, I encourage you to participate and introduce other industry professionals to the LIA. If you are interested in starting a chapter in your area please contact the LIA.

Thank you for your continued support of LIA. Please enjoy what is left of your summer. I look forward to seeing you at ICALEO® 2006 in Arizona.

All the best,

President’s Message

LIA is International

LIA is international. A quick look at our membership, board members, JLA contributors or ICALEO® attendees illustrates this fact.

Our Pacific International Conference on Lasers and Optics (PICALO), launched in 2004 is another example of our commitment to international activities. PICALO was held in Melbourne in 2004 and 2006 and with the guidance of Conference Chair Milan Brandt has made a successful start.

We decided to hold PICALO 2008 in Beijing April 16-18, just a few months before the Olympic Games. The conference will be held in cooperation with Tsinghua University and the Laser Processing Committee of the China Optical Society (LPC-COS).

In June, LIA Director of Conferences Beth Cohen and I went to Beijing to meet with Conference Chair Minlin Zhong (pictured left) and his LPC-COS colleagues. We made a good start to outlining the program and appointing advisory and program committees. We then visited Beijing hotels and made a preliminary selection. Thanks to the Olympics all hotels will be brought to the best possible standards so conference attendees should be very comfortable.

We are planning a post conference tour to the Great Wall so, ever diligent, we trekked off to check it out and I can report that it is, well, Great! I recommend it as a unique experience.

Our host Minlin Zhong advised that in China “to make guests happy is our responsibility” so mark your calendars April 16-18, 2008, renew your passports, and prepare to be happy. PICALO 2008 further illustrates that LIA is international. Don’t miss it!

Executive Director’s Message
of CO₂ lasers had led to deep penetration laser welding. This greatly increased the range of metal thickness, which was suitable for laser processing. At the end of the second decade of laser technology, we see lasers used in a practical way for many applications in material processing. We see also exciting new research possibilities, especially for processing of semiconductors. Areas such as laser-assisted crystal regrowth and annealing of ion implantation damage point toward new methods of generating semiconductor circuitry.

“Through the 1970s, the applications of laser processing have increased steadily. There has been gradual evolution, rather than a sudden explosion, of applications. But the growth has been marked by many innovative concepts, so that laser processing has become the method of choice for some applications, like resistor trimming and hole drilling in ceramics. For many other welding and cutting operations, laser processing is an economically competitive alternative to conventional methods.” John F. Ready, Honeywell Corporate Technology Center

After the First 20 Years, What Then?

“We can expect continued growth of the established applications; hardening, welding, drilling, cutting, etc.; not explosively rapid, but should be steady and consistent as laser processing becomes more and more accepted in industry as an established technology.

“We expect laser processing to reach production status in the semiconductor industry. Later, laser processing of wafers should become desirable for applications like annealing of ion implantation damage.

“One of the most exciting areas is possible use in the fabrication of electronic micro-circuitry, like laser annealing. Although still in a developmental stage, laser processing of electronic structures offers many possibilities for the future.” John F. Ready

Looking Forward: The Next 25 years – Birth of ICALEO

In 1978, the Laser Institute of America decided to sponsor an international conference on laser materials processing. At the same time, under the leadership of that year’s president David Belforte, discussions were held with the Japan Laser Processing Society and the Japan Society for Laser Technology toward establishing an affiliation. The two Japanese societies joined forces and, in conjunction with LIA, held the first joint U.S./Japan International Laser Processing Conference in November 1981 in Anaheim, Calif.

For the U.S., the technical program chairman was Sidney Charschan, who later was to be president of LIA. Co-chairs were John F. Ready of the Honeywell Corporate Technology Center and Michael Bass of the University of California. Japanese co-chairs were Yoshiaki Arata and Hiromichi Kawasumi, presidents of the combined societies.

From the success of this conference, it became clear that a two-day in-depth symposium on a particular field or application provides an excellent forum for the dissemination of recent results and for the interchange of ideas among users, researchers, and manufacturers.

Then, in 1982 LIA announced the first International Congress on Applications of Lasers & Electro-Optics. Held in Boston, Sept. 21-23, the congress was under the leadership of David R. Whitehouse of Raytheon Co. and Haynes Lee, congress and LIA general manager. The first ICALEO offered in-depth symposia on:

• Materials Processing, Prof. Michael Bass
• Medicine & Biology, Dr. Myron Wolbarsht
• Inspection, Measurement & Control, Vince Zaleckas
• Lasers & Electro-Optics, Dr. Peter Mumola
• Optical Communications, Dr. Raymond Jaeger

Program chairman was Sidney S. Charschan, P.E. Western Electric Co. (Stay tuned to the September/October issue of LIA TODAY for more details on ICALEO’s 25-year history.)

Perspective: 1980s The Age of Maturity

“In materials processing we’re exploring the applications of lasers in cutting and welding, heat treatment, surface alloying and cladding, chemical vapor deposition and drilling. We’re looking at integration of lasers with robots, their application in flexible manufacturing systems, and the evaluation of different beam delivery systems for laser-robot systems on the
Lasers and computers are married during this next period. Automation principles are applied. Parts are designed that could only be processed by lasers. Lasers are coupled with high-speed punch presses to produce special terminals. Design and instruction for safety is mandated.

“Today’s lasers can be controlled to vary each and every pulse with respect to power and energy. Generally, I expect evolution rather than revolution to be the trend for material processing. Lasers will be designed for greater stability at specific wavelengths. Be assured, there will continue to be surprising innovations and advances.” Sidney S. Charschan, ICALEO 1987

“This year we explore the exciting prospects and realities of excimer lasers and their applications in industry and medicine.” Rocco V. Lobraico, ICALEO 1988

Keeping the Charge

Since its formation in 1968, LIA, as a nonprofit professional society, has made a major effort in fostering the interchange of technical information, both in the technology and the applications of lasers and electro-optics.

How well this charge has been kept over the past 25 years is the 2006 plenary topic celebrating the Silver 25th anniversary year of ICALEO – “25 Years of Laser Processing, Looking Back to See the Future.”

*Jack Dyer is contributing editor for the LIA TODAY and managing editor emeritus, Journal of Laser Applications®.
mandate did not change. But the commonality, even as they progressed into the private physician’s office, was the use and control of the equipment by clinicians trained in medical discipline and procedure.

Training Suspect

With the advent of intense pulsed light, subject to very different rules than lasers, and the development of ‘nonablative’ procedures where there was no ‘purpose or ability to remove tissue’, the world began a slow and steady change. The changes themselves were not the issue. The implementation of the change was. Aesthetic procedures, especially with intense pulsed light, have been increasingly sold, trained and implemented by non-clinically trained personnel.

This is not to say that the procedures cannot be safely performed by someone other than a physician, P.A. or nurse. It is to say that the very core of Standard of Care, a standard of education and verification of skills, has been lost in the shuffle. Many new users do not understand or use pre-, peri- or post-procedure forms and do not know how to properly inform a customer of the risks and complications of the new treatments.

Widespread Trouble

Today in the U.S. there is a wide spectrum of measured skill and certification not only from state to state but from office to office. From the tight, taxed use of aesthetic lasers by only physicians in New Jersey to numbers of states where there is no regulation on who uses a laser or their level of education the system has clearly failed to work.

The consistency of record-keeping and recommended forms is in worse shape. The outcome of that failure has been the escalation in litigation from such procedures, especially in the intense pulsed light arena; and the sense of immediacy felt by many state level governing bodies to take control of the venue.

The public demand for the ‘top four’ of hair removal, vein removal, resolution of wrinkles, and the elimination of age spots has kindled a new aesthetic industry reaching into the spa, the beauty salon and into the offices of previously uninterested family practice, gynecology and pediatric physicians.

The answer is not an easy one. There seems to be no single regulatory point in most states. By example, one state’s Board of Medical Examiners allows physicians to determine who can operate the laser under their purview. But the same state’s Board of Nurse Examiners is unequivocal in the restriction of nurse’s use. So how do we begin, as an industry, to corral these issues?

Setting it Right

The first is an accepted and uniform level of measured education and competency. The second is to raise the awareness of the users, perhaps through those who sell the equipment, to the need and existence of a measured level of competency. Everyone wants to act with the best interest of both safety and prosperity. The process will continue to grow, the government on a state or federal level will probably become more involved at some point, and we have the ability as prudent professionals to control both.

For the consideration of the customer, the patient, the practitioner, and the person delivering this ‘service’ we must begin to ‘think locally and act globally’. Existing professional organizations need to reach out and help these newcomers and help them understand the needs and not just turn away as many groups in the recent past have.

The fact that lasers and intense pulsed light devices are leaving the traditional medical setting has been established for almost a decade. Now is the time for those who sell, those who use, those who teach, and those who regulate to come together for the betterment and protection of the new process. ✯

Medical Aesthetic Lasers & Light Technologies Course

This two-day course by LIA includes a comprehensive didactic overview of the different types of lasers and pulsed light devices available. The core focus is on laser and light practice as it applies to clinical hair reduction, vascular lesion removal, Photofacial™ laser peels, non-ablative collagen remodeling and new emerging techniques. There is also a focus on rules, regulations and the policy and procedures you need for an effective practice. The course is a 12-hour Category I CME-approved clean, simple, straightforward how-to look at cosmetic light-based procedures. Forms and guidelines are provided. We will discuss the benefits, expected outcomes, and alternative treatments focusing on patient consultation, selection and education, contraindications and precautions, safety, and technique. This is a certified course and there will be a test.

The cost is $1,295 and has been approved for 12 Category I CMEs. There is an extra cost of $300 to get the CMEs. Visit www.laserinstitute.org/education for more information.

<table>
<thead>
<tr>
<th>Upcoming Course Dates</th>
<th>Upcoming Course Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug. 19-20 • Denver, CO</td>
<td>Sept. 16-17 • Boston, MA</td>
</tr>
<tr>
<td>Oct. 14-15 • Chicago, IL</td>
<td>Nov. 18-19 • Houston, TX</td>
</tr>
</tbody>
</table>

LIA member John Hoopman is a certified medical laser safety officer with UT Southwestern Medical Center.
Academy of Laser Dentistry

The Profession’s Independent Source for Dental Laser Education Worldwide

www.laserdentistry.org
Toll-Free 877-LASERS6 (527-3776)

SOURCE 2007:
Lasers in Dentistry

ALD’s 14th Annual Conference & Expo
March 28-31 • Nashville, TN
at Gaylord Opryland®

Call For Abstracts
Submit Your Abstract At
www.laserdentistry.org

NEW IN 2007: TRACK SESSIONS
• Clinical Techniques
• Hygiene & Auxiliary
• Laser Material Interaction
• Science & Research
• Low-Level Laser Treatment
• Diagnostics
• High-Tech Tools You Can Use

Submissions due before September 1st.
The 2007 International Laser Safety Conference (ILSC®) is a comprehensive four-day conference covering all aspects of laser safety practice and hazard control. Technical sessions and workshops will address developments in regulatory, mandatory and voluntary safety standards for laser products and laser use. Laser safety experts from all over the world will meet in San Francisco, Calif. Mar. 19-22, 2007 to discuss their research, programs and standards. Presented by LIA, professionals in all fields and applications will find ILSC 2007 a tremendous source for information and networking opportunities.

ILSC Overview
ILSC will feature papers on the following topics: worldwide safety standards and legislation, bioeffects, protective systems and devices, practical laser safety, laser safety training, protective filters and guards, use and safety of outdoor lasers, high-powered lasers, hazard and risk assessment, non-beam hazards and fume extraction, medical laser safety, accidents and incidents, and measurements.

The Conference General Chair is Benjamin Rockwell, AFRL/HEDO, Brooks City-base, Texas and the Conference Chair is John Tyrer, Loughborough Univ., Leicestershire, UK.

NEW for 2007!
The Laser Safety Practical Applications Seminar will be held Mar. 19-20. This seminar is a two-day seminar for the practical Laser Safety Officer (LSO). It will be particularly useful for LSOs who are not full-time laser safety professionals. Participants will be 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.

Tabletop Exhibit & Sponsorship Opps
The ILSC tabletop exhibit and reception to be held Tuesday, Mar. 20 from 5:30 p.m.-8 p.m. and is open to all companies and institutions within the laser industry. This exhibit gives vendors and attendees the opportunity to meet and discuss equipment and ideas in a relaxed setting.

ILSC 2007 will also offer various levels of sponsorship opportunities to give companies or organizations added promotional exposure. For further information, contact Beth Cohen at bcohen@laserinstitute.org.

ILSC Registration Info
Full conference registration includes admission to the plenary session and all technical sessions, workshops, welcome reception and George M. Wilkening and R. James Rockwell, Jr. Educational Achievement Award presentations, tabletop exhibits and a technical digest. LIA corporate and individual members, pre-register and save! Visit www.laserinstitute.org/conferences for more details and to register.

Eye protection needn’t cost an arm and a leg
Laser safety that’s easy to wear

LaserShields

NoIR Laser Company
www.noirlaser.com
1-800-521-9746  734-769-5566  734-769-1798 fax
Made in the USA
Trinity Technologies is your complete supplier of laser safety equipment. From goggles to windows, we provide the best in laser safety equipment including eyewear (goggles and spectacles), safety accessories, publications, and patient protective eyewear.

Contact Trinity Technologies’ certified laser safety experts and we will assist you with your laser safety requirements.

1-800-393-5565
www.lasersafety.com
## Welcome New LIA Members

### Corporate Members
- Dermacare Laser & Skin Care Clinics, Scottsdale, AZ
- Rofin-Baasel Inc., Boxborough, MA
- SPI Lasers, San Jose, CA

For a complete list of corporate members, visit our corporate directory at www.laserinstitute.org.

### Individual Members

<table>
<thead>
<tr>
<th>Name</th>
<th>City, State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael Anderson</td>
<td>Auburn Univ., AL</td>
</tr>
<tr>
<td>Marvin Sanderson</td>
<td>Little Rock, AR</td>
</tr>
<tr>
<td>Sharon Gerdes</td>
<td>Anaheim, CA</td>
</tr>
<tr>
<td>Arzu Ozkan</td>
<td>Santa Clara, CA</td>
</tr>
<tr>
<td>Li Chen</td>
<td>Santa Clara, CA</td>
</tr>
<tr>
<td>Mathew Rekow</td>
<td>Santa Clara, CA</td>
</tr>
<tr>
<td>Ramasamy Elavarasan</td>
<td>Sunnyvale, CA</td>
</tr>
<tr>
<td>David A. Kun</td>
<td>West Hills, CA</td>
</tr>
<tr>
<td>David Kuhns</td>
<td>Bloomfield, CT</td>
</tr>
<tr>
<td>Daniel Eigner</td>
<td>Columbia, CT</td>
</tr>
<tr>
<td>Jeffrey Lyons</td>
<td>Monroe, CT</td>
</tr>
<tr>
<td>Jean-Claude Nerette, Jr.</td>
<td>Scottsdale, AZ</td>
</tr>
<tr>
<td>Peter Boden</td>
<td>Northbrook, IL</td>
</tr>
<tr>
<td>Michael Chelsen</td>
<td>Billerica, MA</td>
</tr>
<tr>
<td>Witold Tatkowski</td>
<td>Boston, MA</td>
</tr>
<tr>
<td>Michelle L. Stock</td>
<td>Ann Arbor, MI</td>
</tr>
<tr>
<td>Michael Sykes</td>
<td>Saginaw, MI</td>
</tr>
<tr>
<td>Susan M. Mathison</td>
<td>Fargo, ND</td>
</tr>
<tr>
<td>Robert Moody</td>
<td>Milford, NH</td>
</tr>
<tr>
<td>Francis J. Roth</td>
<td>Princeton, NJ</td>
</tr>
<tr>
<td>William Salerno</td>
<td>Saddlebrook, NJ</td>
</tr>
<tr>
<td>Charmain Tidwell</td>
<td>Alamogordo, NM</td>
</tr>
<tr>
<td>Thierry Marchione</td>
<td>Edgewood, NM</td>
</tr>
<tr>
<td>Richard P. Harvey</td>
<td>Buffalo, NY</td>
</tr>
<tr>
<td>Jaclyn Nelson</td>
<td>Bellport, NY</td>
</tr>
<tr>
<td>Haiping Shao</td>
<td>Dublin, OH</td>
</tr>
<tr>
<td>Gina Picart</td>
<td>Tulsa, OK</td>
</tr>
<tr>
<td>Jim Johnston</td>
<td>Pittsburgh, PA</td>
</tr>
<tr>
<td>Milton L. Rogers, Jr.</td>
<td>Aiken, SC</td>
</tr>
<tr>
<td>Lee Loftesness</td>
<td>Sioux Falls, SD</td>
</tr>
<tr>
<td>Tina T. Graham</td>
<td>Memphis, TN</td>
</tr>
<tr>
<td>William Hofmeister</td>
<td>Tullahoma, TN</td>
</tr>
<tr>
<td>Caitlin Dickinson</td>
<td>Houston, TX</td>
</tr>
<tr>
<td>David Templeman</td>
<td>Richmond, VA</td>
</tr>
<tr>
<td>Peter Geissler, Ph.D.</td>
<td>Washington, DC</td>
</tr>
<tr>
<td>Justino Mulima</td>
<td>Wollongong, Australia</td>
</tr>
<tr>
<td>Lucian Iordache</td>
<td>Hamilton, ON, Canada</td>
</tr>
<tr>
<td>Chi Tat Kwok</td>
<td>Taipa, Macau, China</td>
</tr>
<tr>
<td>Milan Honner, Ph.D.</td>
<td>Plzen, Czech Republic</td>
</tr>
<tr>
<td>John Tyrer</td>
<td>Leicestershire, UK</td>
</tr>
</tbody>
</table>
Chapter Corner

LIA encourages all LIA members in the supporting areas of these chapters to join the chapter and support its efforts to promote the laser industry on a regional level. For more information or to volunteer to help, visit www.laserinstitute.org/membership/chapters.

**Northern CA Chapter**

LIA is pleased to announce the formation of its third regional chapter. Formation of the Northern CA Chapter of LIA was voted on during LIA’s first regional meeting in this area, which was held on Wednesday, May 31, 2006 in Sunnyvale, Calif.

Fulfilling its mission to foster lasers, laser applications, and laser safety worldwide, the LIA welcomes the support in northern California. The Northern CA Chapter of LIA includes the state of California, but is not limited to just that state.

“We certainly welcome other surrounding states to come. An LIA chapter is never limited to the state it resides in,” said LIA Marketing Director Jim Naugle.

During the evening, a social hour was followed by an LIA presentation and then featured speaker Heinrich Endert of Spectra Physics spoke on “Emerging Applications of Lasers in the Semiconductor Industry.” After the presentation, the vote took place with a unanimous decision to approve the chapter’s formation.

The goal of the chapter is to create a forum for networking with laser professionals in Northern California that include laser end-users, manufacturers of lasers and related products, safety officers, company presidents and researchers. The mission is to provide laser community networking avenues and education for LIA members and to serve as a recruitment tool for potential new members. Bimonthly meetings will be held throughout the area with a guest speaker or company tour as part of each one. LIA’s Northern CA Chapter has a great deal to offer LIA members, both technically and professionally.

Four voluntary committee members have been named. This committee consists of the following LIA members: Chairperson Silke Pflieger of SPI, Neil Ball of Directed Light, Inc., David Clark of Spectra Physics, and Susan Winfree of Metal Improvement.

“The formation of an LIA chapter in this area will provide outstanding local leadership and present increasing opportunities to meet needs in the region,” said LIA Executive Director Peter Baker.

According to LIA’s bylaws, each chapter must consist of a minimum of 20 LIA members and form an organizational committee with one designated chair. There will not be any chapter dues and the group must meet a minimum of four times a year. You must be a member of LIA in order to join one of its chapters. For more chapter-specific information, visit http://www.laserinstitute.org/membership/chapters/West/.

**Great Lakes Chapter**

The most recent Great Lakes Chapter regional meeting was held July 12, 2006, at the Fraunhofer Institute in Plymouth, Mich. Featured speaker Dr. Stefan Heinemann gave a presentation on “Novel Lasers and Their Impact on Materials Processing,” which gave an overview of the latest technology in industrial laser applications as well as how the technology is trending.

After the presentation the group toured the lab area and saw a working laser welder for transmission parts, the micro machining section, the IPG Photonics fiber laser comparison lab with the disk laser, and the CO₂ body-in-white welding cell. It was a rare opportunity to check out the latest real-world applications at work.

Other items on the agenda were the submission of names to be placed on the ballot for the October election of officers for 2007 and a discussion of venue for the chapter’s student-themed meeting in October and possible joint meeting with the local chapter of the Optical Society of America (OSA).

The Great Lakes Chapter includes the states of Ohio, Michigan, Illinois, Indiana, and the province of Ontario, Canada. For more information please visit www.laserinstitute.org/membership/chapters/great_lakes/.

**Northeast Chapter**

The next meeting of the Northeast Chapter will be held Tuesday, Sept. 26, 2006 at the Connecticut Center for Advanced Technology, Inc. (CCAT) in East Hartford, Conn. The meeting will begin at 3:30 p.m. with an optional lab tour of CCAT (www.ccat.us) before moving on to the Sheraton Hartford Hotel for a social hour, dinner and speakers.

The first speaker will be Deborah Santy, CT SBIR, of CCAT who will discuss “Economic Trends, Key Issues for the Manufacturing Sector, and A Role for Education.” The keynote presentation will discuss what’s going on in the economy, how it affects the manufacturing industry in general and manufacturing using lasers in particular. It will also address the link between education and needs of the industry.

Please RSVP by Sept. 12 to Elizabeth DiBona at edibona@ccat.us or 860-282-4227. For more information visit www.laserinstitute.org/membership/chapters/new_england/.

**Future Meetings:**
- October 18, 2006
- Student Night – Elections
- January 17, 2007
- First meeting for 2007
would be impossible to measure," he said in the report.

U.S., Singapore Act to Simplify Telecom Trade

On June 2, new, streamlined regulatory approval procedures came into effect in the United States and Singapore, allowing U.S. makers of telecommunication equipment to certify their products at home and ship directly to the $1.3 billion Asian market, and eliminating the need for often duplicative testing. The delay-ending, cost-saving simplification is the latest bilateral step in carrying out a 1998 trade agreement among members of APEC (Asia-Pacific Economic Cooperation). The National Institute of Standards and Technology (NIST) designated four U.S. organizations as “certification bodies,” and they now have been recognized by the Singapore government as qualified to determine whether shipments of telecommunications products – including wireless equipment – comply with that country’s required standards.

In a parallel action, the Federal Communications Commission (FCC) has recognized a certification body designated by the Infocomm Development Authority of Singapore. This permits Singapore telecommunication exports to be tested and certified as conforming to FCC regulations before shipment to the U.S. Two-way trade of telecommunication products between the two nations totaled about $1.1 billion in 2005. The joint action nearly completes the second phase of the 1998 APEC Mutual Recognition Arrangement on Telecommunication Equipment, intended to reduce technical barriers to markets.

ASC Z136 Update

Plan ahead! The 2007 annual meeting of Accredited Standards Committee (ASC) Z136 will be held Mar. 18, 2007 in conjunction with the International Laser Safety Conference (ILSC® 2007) in San Francisco, Calif.

ILSC® 2007 is a comprehensive four-day conference covering all aspects of laser safety practice and hazard control, where laser safety experts from all over the world will meet and discuss their research, programs and standards.

New for 2007 is the Laser Safety Practical Applications Seminar. This two-day seminar will run concurrent to ILSC® 2007, and will be particularly useful to laser safety officers who are not full-time laser safety professionals. A sample of topics to be included are: Optics 101 – a basic overview of common optics; Medical Laser Safety – from the operating room to the day spa; Laser Safety on a Budget; High Intensity Light Sources; and more!

Join us at the annual meeting, ILSC® 2007 and the new Practical Applications Seminar! Watch your mailboxes for the Call for Papers – abstract and workshop submissions are now being accepted at www.laserinstitute.org/conferences/ilsc. If you have any questions regarding ASC Z136 activities, ILSC® 2007 or the Practical Applications Seminar, please contact Barbara Sams at the LIA, 407-380-1553 or bsams@laserinstitute.org for more information.
LIA Supports Global Alliance
LIA is pleased to announce it is the cooperating society for the Global Alliance for Research and Education in Laser Aided Manufacturing (GARELAM). The first, formative workshop was held July 17-18, 2006 at the National Academy of Sciences (NAS) Lecture Room in Washington, D.C. This workshop brought together premier academic and industry professionals from the international laser processing field. The purpose of this workshop was for different research centers to brainstorm on lasers and plasmas across the globe, therefore establishing a Global Alliance of Research and Education on Laser Aided Advanced Manufacturing (GARELAM) Technology.

Too often our community has fallen asleep when it comes to establishing a global platform to create a culture and process for laser research and education in the 21st century. The time is now for the community of laser application engineers and scientists to mitigate the challenge of globalization in higher education.

As a cooperating society, part of LIA’s commitment will be to assist in marketing and to publish the GARELAM white papers. LIA and GARELAM would like to invite anyone in the laser industry to the follow-up meeting to be held at ICALEO on Nov. 1. For more information on the workshop, visit http://cpd.engin.umich.edu/garelam.

Advance Program Available
The Advance Program for LIA’s 25th International Congress on Applications of Lasers & Electro-Optics (ICALEO®) is now available. The Advance Program provides details for all the technical sessions, poster presentations, business development session, vendor exhibits and short courses offered during ICALEO® 2006, to be held Oct. 30-Nov. 2 in Scottsdale, Ariz., USA.

Highlighted sessions during the conference include fiber laser processing, laser processing of biological material, laser processing in the aviation, defense, and space industry, lasers in material processing diagnostics and in nanotechnology, and the Laser Business Development Session. Don’t miss the President’s Reception to be held at Taliesin West, Frank Lloyd Wright’s winter home, studio and architectural laboratory in the foothills of the McDowell Mountains. Sponsorship and vendor opportunities are still available. For more information, visit www.icaleo.org or contact Beth Cohen bcohen@laserinstitute.org.

LIA at AIHce
In May, LIA exhibited at the AIHce (American Industrial Hygiene Conference & Expo) in Chicago, Ill. Approximately 6,000 attended this expo, and most of them were interested in LIA’s training courses, ANSI standards, and BLS certification. LIA looks forward to returning next year.

It’s Time To Vote!
Attention all members – your official LIA ballot will be mailed in August. Please take a moment to vote for your society’s officers and board members and return your ballot promptly. Every vote counts!

Journal of Laser Applications® Update
The Journal of Laser Applications® offers the latest refereed papers by leading researchers in the laser community. The August 2006 issue includes papers from materials processing, sensing & measurements and safety. Look for the online version at www.laserinstitute.org/publications/jla/. To view the journal online, please make sure your membership is current.

The JLA® is published four times a year by the Laser Institute of America in February, May, August and November. It is sent to all LIA members as a member benefit. For nonmembers of LIA, call the American Institute of Physics at 1.800.344.6902 for subscription information. Sign up at http://scitation.aip.org/jla/alert.jsp to receive your JLA table of content e-mail alerts.
SAVE THE DATE!

New for 2007 –
Laser Safety Practical Applications Seminar
March 19 - 20
Chairs: Eddie Capraro, CLSO, UC Berkeley, Berkeley, CA, USA
Robert Sarason, CLSO, Univ. of California at Davis, Davis, CA, USA
A 2-day seminar for the Laser Safety Officer. Participate in practical interactive workshops, panel discussions, and hot topics addressing the more common safety issues and concerns of the Laser Safety Officer and Medical Laser Safety Officers. Learn and network with your peers! Go to www.laserinstitute.org/conferences/ilsc for more details!

ILSC 2007

General Conference Chair:
Benjamin Rockwell, AFRL / HEDO
Brooks City-Base, Texas USA

Featured in ILSC
Safety Standards - Worldwide
Lasers - Operational Policies & Practices
Bioeffects
Laser Light Shows & Displays
Non-Beam Hazards
Hazard & Risk Analysis
Measurements & Global Acceptance
Protective Systems & Devices
Training Programs
Laser Safety in Health Care Facilities
Lasers in Telecommunications
Laser Safety in R & D Labs

BECOME A CERTIFIED LSO TODAY!

Why Become Certified?
As the use of lasers grows both in popularity and applications, there will be a growing demand for trained laser safety professionals. BLS certification will enhance the credibility of a designated Laser Safety Officer and demonstrate that individuals serving in the field of laser safety have agreed to adhere to high standards of safety and professional practice.

Benefits of becoming Certified
- Upgrade your laser safety knowledge
- Gain a competitive edge
- Stay current on changes in the industry
- Achieve recognition
- Become part of a unique worldwide network of laser safety professionals
- Connect with other CLSOs and CMLSOs to share solutions

Examination Information
It is easier now more than ever to take the exam. All Certification exams are offered via Computer Based Testing. We have over 200 exam locations in the US and Canada. The bottom line is you can take the exam when and where you want at your convenience.

BLS Background
The Board of Laser Safety (BLS) was incorporated in September 2002 as a nonprofit organization affiliated with the Laser Institute of America (LIA), a California nonprofit corporation. The mission of the BLS is to provide a means for improvement in the practice of laser safety by providing opportunities for the education, assessment, and recognition of laser safety professionals.

Take the Next Step!
What are you waiting for – call the BLS today for an application at 800-345-2737 or visit our website to download one at www.lasersafety.org.