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LIA TODAY

THE OFFICIAL NEWSLETTER OF LIA

On the Cover:

A STELLAR Opportunity for the Nation

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- Market Updates

LIA TODAY

THE OFFICIAL NEWSLETTER OF LIA

LIA Staff Editors: Jana Langhans; John McCormack

LIA TODAY is published quarterly to educate and inform students and professionals of challenges and innovations in the field of photonic materials processing.

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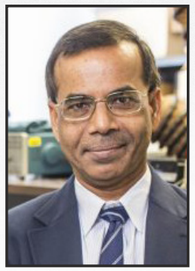


PROF. ARAVINDA KAR
LIA 2025 PRESIDENT

I would like to sincerely express my gratitude and thanks for the opportunity to serve LIA as its 54th president from January 2024 through December 2025. It was a great journey with enriched experience, and I made numerous friends along the way. LIA is indeed a great community, which made my job easy and enjoyable. Working with many professionals, and collaboratively guiding LIA through changing times have been rewarding. I am happy to report that LIA is in good hands with Dr. Salama as the new President and Shaun Oleson as the Executive Director. I also appreciate the hard work and contributions of the Officers, members of the Board of Trustees, and the LIA staff for their commitment and dedication to this organization.

LIA has been serving its members very well. ICALEO and the laser safety conferences are branded as the forum to orchestrate cutting-edge technologies and for exchanging ideas that can inspire innovation. Enthusiastic speakers and high-quality presentations continue to showcase innovative advancements and bright ideas. New opportunities for laser applications in health care, aerospace industries, and the processing of semiconductor materials, just to name a few, point to growth in laser industries. Nanophotonic devices for quantum sensing and quantum computing are also influencing the laser market for novel light sources and manufacturing processes. These emerging fields would benefit the LIA community for research, development and commercialization.

Overall, the future of LIA is brighter than ever before. I wish Dr. Salama and Shaun Oleson success in leading the organization toward continued progress and prosperity and balancing strategic vision with operational excellence.

A. Kar

DR. SAM SALAMA
LIA 2026 PRESIDENT

It is both a privilege and an honor to serve as President of The Laser Institute (LIA) for 2026. I am grateful for the opportunity to work alongside such a dedicated community of members, volunteers, researchers, industry leaders, and staff who continue to advance laser applications and laser safety around the world.

LIA continues to play an important role in supporting the growth of laser technology across manufacturing, healthcare, aerospace, defense, microelectronics, research, and emerging photonics applications. As our industry evolves, the need for collaboration, education, standards development, and safety leadership becomes even more important. Through our conferences, training programs, publications, and technical community, LIA remains committed to supporting innovation while promoting the safe and responsible use of laser technologies.

The continued evolution of ILSC and ICALEO reflects the strength and engagement of our community. These events provide valuable opportunities for technical exchange, networking, and collaboration while highlighting the latest advancements in laser processing, automation, artificial intelligence, ultrafast applications, and photonics research, as well as the evolving standards and best practices that keep our industry safe. We are excited to continue building on this momentum throughout 2026.

As we look ahead, LIA's leadership team and Board of Trustees remain focused on several important priorities for the year. Our goals for 2026 include achieving revised targets for budget performance and revenue growth while continuing to strengthen the long-term sustainability of the organization. We are also focused on increasing membership engagement and expanding our global membership base across industry, academia, and government.

In addition, we are actively working to establish new partnerships with customers, partner organizations, research institutions, and governmental entities to further expand the LIA's impact and visibility while increasing our revenue opportunities and circle of influence within the global laser and photonics community. Another major focus for 2026 will be the continued growth and evolution of ICALEO, including the addition of exciting new programs, technical content, and industry engagement opportunities designed to enhance the experience and value for attendees, exhibitors, and sponsors.

The future of LIA is bright, and I am confident that through the dedication and collaboration of our community, we will continue to grow and strengthen the organization while advancing the global laser industry. Last, I would like to thank LIA Past-President, Dr. Aravinda Kar for his leadership and for helping to pave the road ahead of us

Thank you for your continued support of LIA. I look forward to working together throughout 2026.

Sam Salama

A LOOK AHEAD AT UPCOMING LASER SAFETY TRAINING!

MAY

CALCULATING LASER SYSTEMS HAZARDS
Virtual (Zoom) - May 18-22

JUNE

INDUSTRIAL LASER SAFETY OFFICER
Plymouth, MI - June 24-25

JULY

CALCULATING LASER SYSTEMS HAZARDS
Virtual (Zoom) - July 27-31

AUGUST

LASER SAFETY OFFICER
Denver, CO - August 24-26

LASER SAFETY OFFICER WITH HAZARD ANALYSIS
Denver, CO - August 24-28

MEDICAL LASER SAFETY OFFICER
Virtual (Zoom) - August 22-23

SEPTEMBER

INDUSTRIAL LASER SAFETY OFFICER
Novi, MI - September 23-24

NOVEMBER

LASER SAFETY OFFICER WITH HAZARD ANALYSIS
Orlando, FL - November 2-6

INDUSTRIAL LASER SAFETY OFFICER
Plymouth, MI - November 11-12

MEDICAL LASER SAFETY OFFICER
Virtual (Zoom) - November 21-22

DECEMBER

CALCULATING LASER SYSTEMS HAZARDS
Virtual (Zoom) - December 14-18

$50 OFF

LIA TODAY READER OFFER:
$50 Off of the highlighted course using discount code
LTRV126

For a complete list of courses, both online and in-person, please visit lia.org/training.

Recently purchased a new laser?

Request an *in-house training* to ensure your staff knows how to run the system safely and correctly.

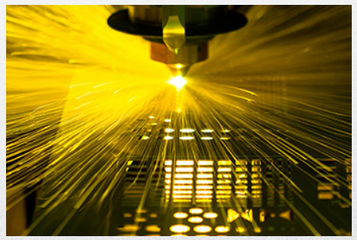
LIA COURSE HIGHLIGHT: INDUSTRIAL LASER SAFETY OFFICER

JUNE 24-25, 2026
PLYMOUTH, MI

Designed to keep you on the leading edge of safety training requirements and program administration, this course teaches a non-mathematical approach to facilitating the duties of a Laser Safety Officer.

Our Industrial LSO course was designed for all levels of experience involved in industrial, and manufacturing applications of lasers. This course meets all LSO training requirements outlined by the Z136.9 Safe Use of Lasers in Manufacturing Environments standard and OSHA.

This course is worth 16 CECs by AAHP and 2.0 BLS CM points by the Board of Laser Safety.



A LOOK AT THIS YEAR'S INDUSTRY CONFERENCES!

1. Photonics West - January 17-22, 2026 (San Francisco, CA, USA)
2. AORN - Apr 11-14, 2026 (New Orleans, LA, USA)
3. RAPID + TCT - April 13-16, 2026 (Boston, MI, USA)
4. AKL - Apr 22-24, 2026 (Aachen, Germany)
5. SPIE DCS - Apr 26-30, 2026 (National Harbor, MA, USA)
6. ASLMS - May 7-9, 2026 (Savannah, GA, USA)
7. CLEO - May 17-21, 2026 (Charlotte, NC, USA)
8. DOE LSO Workshop - May 19-21, 2026 (Livermore, CA, USA)
9. LPM - June 9-12, 2026 (Greenville, SC, USA)
10. LASYS - June 3-6, 2026 (Stuttgart, Germany)
11. ASSP - June 15-17, 2026 (Anaheim, CA, USA)
12. ECIO - June 15-17, 2026 (Zurich, Switzerland)
13. IMTS - September 14-19, 2026 (Chicago, IL, USA)
    - **Industrial Laser Conference (ILC) - September 16**
14. OR Managers - October 5-7, 2026 (Savannah, GA, USA)
15. **ICALEO - October 5-8, 2026 (Denver, CO, USA)**
16. FABTECH - October 21-23, 2026 (Las Vegas, NV, USA)

A LOOK AHEAD AT LIA'S UPCOMING CONFERENCES!

ICALEO®
44TH INTERNATIONAL CONGRESS ON APPLICATIONS OF LASERS & ELECTRO-OPTICS

October 5-8, 2026 - Denver, Colorado

ICALEO Updates

The 45th annual International Congress on Applications of Lasers and Electro-Optics (ICALEO) will be in Denver, Colorado! We are excited to host you at the beautiful Hilton Denver City Center on October 5-8, 2026.

Registration: Exciting news! Loyalty Registration pricing for the 45th annual International Congress on Applications of Lasers and Electro-Optics is now open – take advantage of discounted early bird rates and secure your spot at the premier international conference on lasers and electro-optics!

Company Opportunities: There are still opportunities to highlight your company at the event with sponsorships and exhibit space! Contact marketing@lia.org or visit icaleo.org for more information.

Hotel Group Rate: Stay at the conference hotel for a discounted rate! The Hilton Denver City Center is a destination that offers all the connection you could ever imagine right within reach. Attendees receive free breakfast, wifi, networking, and more!

Subscribe to our mailing list at icaleo.org/subscribe for the latest updates.

INDUSTRIAL LASER CONFERENCE 2026

September 16, 2026 - Chicago, Illinois

ILC Updates

The Industrial Laser Conference will be taking place as part of IMTS in September.This conference focuses on laser processing for manufacturing applications. We will consider laser applications from marking to cutting, to welding and heat treating, to remote welding, to cleaning and additive manufacturing, and more. If you are interested in participating, please reach out to the LIA Conference Team at conferences@lia.org.

ILSC
INTERNATIONAL LASER SAFETY CONFERENCE

See you in 2027!

ILSC Updates

Be sure to subscribe to our mailing list at ilsc.ngo to be the first to know when ILSC 2027 is announced! If you are interested in participating in the organizing committee, please reach out to ilsc@lia.org.

MARKET UPDATES: IT'S SHOW TIME!

As part of a quarterly op-ed, Geoff Shannon of Laser Markets, Inc investigates and shares his insights of current market trends and the state of the laser industry. This feature looks into the upcoming manufacturing show season.

The fall season is all about manufacturing shows, both in the US and globally. By my count there are 10+ shows in 10 weeks spread across US, Germany, Italy, China, and Japan. Happy times for execs who are a little short on their 1k/platinum/rare earth metal status!

In the US the show season kicked off in September with Fabtech, the largest US fabrication show, held this year in Chicago - yay, but only every three years – boo. On the cutting side Trumpf and Amada continued the historical "booth off" however it was the welding hall that had most traffic - likely due to large ticket machines being harder to justify at present, and yes Mr. Powell we are all watching very closely. The cutting arms race between ultra-high power lasers and high-definition plasma continues, though plasma appears on the ropes and looking for a Rocky type of comeback. While plenty of 60kW laser systems were shown, most vendors indicated that 30kW was the max power being purchased, with the sweet spot between 10-20kW.

In the welding hall it was all about the hand-held lasers, pared with cobots, as far as the eye could see. Lincoln and Miller officially joined the party, however, at $40k the pricing seems a touch high. It will be interesting to see how much each pushes the product, perhaps an indication was that I could not find the product on Miller's booth, while Lincoln had it front and center. No points for guessing who has the larger US market share in TIG.

Swiftly moving on to The Battery Show and EV Tech Expo, possibly to be re-named The Battery Show and come back in 3 years EV Expo. You had to feel for the vendors, with the current administration cutting most EV initiates, major automotive OEMs signally a massive pull back on EV programs, and with General Motors willing to eat $1.6B in costs to divest the EV effort, you know it's tough trucking ahead. To be fair most were upbeat, highlighting energy storage and handheld tools, and budget EV's as growth areas. However, hard to see these really making up for such a deficit, mind you, once all the AI data centers come online, and nobody has any power energy storage may just be the ticket.

ICALEO provided a nice sojourn as the laser community from near and far converged on the largest US laser materials processing conference. Always great to see such strong representation from Europe and specifically Germany, hopefully in time we will see the return of our Asian colleagues. Hot topic No.1 was beam mode shaping, both static and dynamic, mostly applied to micromachining and welding. While presenters and attendees are mostly from academic/research institutes, a tip of the hat to Cailabs, Civan Lasers and Lasea for giving multiple talks that were not just marketing pitches. Oh, and the best paper goes to (drum roll), Alexander Olowinsky from ILT Fraunhofer on the potential use of kW class lasers for polymer welding - could be a game changer. Big congrats to Professor William O'Neil on receiving the prestigious Schawlow award, arguably the nicest and smartest guy in our industry. We go back to the eighties and the Liverpool Laser Mafia days with Professor Steen, when all seemed possible, especially after a few beers! Your humble column writer presented in the business session on the North American Laser and Laser Systems market. The cliff notes being even with a lot of uncertainty, the worst appears over with recovery likely in the second half of 2026, and all indicators pointing to a bright CY27. Frankly compared to other regions the US has done ok, and the future looks brighter.

Meanwhile back in the real world (sorry ICALEO!), last stop was the Medical Device Manufacturing show in Minneapolis which is ground zero for the medical device industry. Firstly, bit of weather shock from Florida to the north mid-west, but at least it didn't snow. While the show itself is small, MDM West in Los Angeles being the largest, it feels like a good amount of business gets done here. The show was well attended with vendors upbeat after a bit of a roller coaster year to date, outlooks were positive for remaining part of this year and next.

A final bit of news is that I have been elected to the board of the trustees for the LIA, so borrowing from the Sherlock Holmes re-runs I watched over the holidays, the game is afoot!

About the Author

Geoff Shannon, PhD
Laser Markets Inc
Geoff@lasermarkets.com

Over 30 years of laser applications, product and market experience, Currently as Principal of Laser Markets offering marketing consulting services for lasers and laser systems.

LIA LAUNCHES NEW MENTORSHIP PROGRAM TO SUPPORT GROWTH AND CONNECTION IN THE LASER INDUSTRY

The Laser Institute (LIA) has launched a new Mentorship Program designed to support professional growth, strengthen industry connections, and encourage knowledge-sharing across the laser and photonics community. Open to both mentors and mentees, the program provides opportunities for career development, leadership guidance, and meaningful collaboration among professionals at all stages of their careers.

We're excited to share an upcoming ***member-exclusive*** opportunity with you—the launch of LIA's new Mentorship Program, designed to strengthen connections across the laser industry and support professional growth at every career stage.

Beginning in May, LIA will begin accepting applications for both mentors and mentees, with the program set to launch in June. This initiative will connect experienced industry leaders with early-career and emerging professionals, creating meaningful opportunities for knowledge sharing, guidance, and professional development.

Why the LIA Mentor Program Exists

The LIA Mentor Program was created to foster meaningful professional relationships, promote skill development, and strengthen the global laser safety and photonics community. Whether you're seeking guidance or looking to give back, this program provides a structured pathway for growth, leadership, and connection.

Mentees will have the opportunity to gain valuable career advice, expand their industry knowledge, and develop professional confidence, while mentors can share their expertise, leadership experience, and perspective with emerging professionals.

Program Goals

Through structured mentorship relationships, participants can strengthen both technical and professional skills while building lasting industry connections.

Support career advancement through personalized guidance

Promote leadership and knowledge-sharing within the laser industry

Build a community of engaged professionals across disciplines

Encourage collaboration across research, manufacturing, academia, and safety

Provide a space for students and early-career professionals to learn from experts

Building a Stronger Industry Network

In addition to individual growth, the program reflects LIA's continued commitment to supporting the broader laser industry community. By creating opportunities for collaboration and engagement, the program helps strengthen relationships between professionals across academia, manufacturing, research, medicine, and other laser-related fields.

Participation in the Mentorship Program is exclusive to LIA members, and space will be limited to ensure a high-quality experience for all participants.

Additional details about the program, including expectations, eligibility, and the mentor and mentee application can be found on our website at lia.org/mentorship

If you are interested in becoming part of the LIA community, please reach out to membership@lia.org. Together, we'll continue to shape the future of laser technology, one innovation at a time.

INTRODUCING LIA'S 2025 BOARD OF TRUSTEES

The Laser Institute (LIA), a global leader in laser safety, training, and industry advancement, is proud to announce the 2026 Board of Officers and Trustees, including election of three new Trustees to its Board. This year's leadership committee brings diverse and complementary expertise that aligns with LIA's ongoing commitment to innovation, education, and safety in the laser industry.

2026 OFFICERS

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Dr. Koji Sugioka
RIKEN

Prof. Antti Salminen
University of Turku

Dr. Geoff Shannon
Laser Markets

A STELLAR OPPORTUNITY FOR THE NATION

Could Rochester become the center of America's laser resurgence? A new op-ed explores the STELLAR initiative and its vision for advancing U.S. competitiveness in lasers and photonics.

The United States risks falling behind in a $16 trillion market that depends on lasers, but universities, businesses, and governmental organizations in the Rochester/Finger Lakes New York region are combining forces to try to lead a national resurgence. And what better place for that resurgence to occur than Rochester, sometimes known as the imaging capital of the world, which has a nearly 175-year history of precision, innovation, and light?

The University of Rochester, Monroe Community College, Rochester Institute of Technology and many other partners in optics, photonics, imaging, and lasers (OPI+L) have been named a finalist in the National Science Foundation Regional Innovation Engines program. Our application—STELLAR (Science, Technology, and Engineering for Laser and Laser Applications Research) is in the running to be awarded a $160 million NSF award to create and grow an ecosystem in the Rochester and Finger Lakes region that advances the science, technology and engineering of lasers. STELLAR is strengthened by its strong partnership centered around innovations in laser technology, the tremendous support of regional leaders, and a six-year $16 million commitment from New York State.

The STELLAR application competed with nearly 300 proposals from around the country in areas ranging from textiles to mental health. These were whittled down to 71, then to 29 semifinalists, and now the final mix of 15 proposals are being considered for this NSF Engines award.

The STELLAR proposal is based on providing US-based sources of next-generation lasers for scientific, industrial, manufacturing, energy, biomedical, and national security applications. With a strong mix of research, education, and industry partners, the STELLAR team aims to fill national talent shortages, help translate technologies into businesses, bring manufacturing to a scale that can compete with leaders in Europe and China, and fuel core research and development.

> *"The United States risks falling behind in a $16 trillion market that depends on lasers, but universities, businesses, and governmental organizations in the Rochester/Finger Lakes New York region are combining forces to try to lead a national resurgence."*

STELLAR's 10-year plan will increase worker training and retention for laser-critical STEM programs; improve performance and cost for critical laser systems and components at scale for manufacturing capacity; and aim for a 10x increase in investments in laser R&D, education, and infrastructure for the translation of technologies into commercial products.

Rochester is a logical place to invest given its pedigree, talent, and brainpower. While the region is well-known as the birthplace of Bausch & Lomb, Kodak, and Xerox, today it remains a hotbed of light-based technology, foundational to critical industries, and is also renowned for its legacy of advanced manufacturing. The regional expertise spans research and development, sensors, lasers, lenses, medical devices, optical coatings, optical components, metrology, semiconductor supply chain, and advanced manufacturing.

The density of talent and patent activity with specialized firms and workers is second only to Silicon Valley. Per capita, the Rochester region is top 5 for STEM degrees and produces more than 60% of total optics degrees in the nation. We're No. 1 for engineering, engineering technologies, and technicians per capita; No. 1 for optics patents per 1,000 workers and top 5 in the country for OPI+L supply chain and skilled workforce. The Rochester and Finger Lakes region is home to more than 150 photonics, imaging and laser companies and suppliers, representing more than 20,000 employees.

> *"The Rochester and Finger Lakes region is home to more than 150 photonics, imaging and laser companies and suppliers, representing more than 20,000 employees."*

Founded nearly 100 years ago, the University of Rochester's Institute of Optics was the original OPI+L academic department and research center in the US, and has since launched more than 100 companies. The University's Laboratory for Laser Energetics (LLE) is a unique national resource for conducting research to better understand laser-materials interactions. Its OMEGA Laser Facility is one of the most sophisticated high-energy laser systems in the world and home to the powerful and largest lasers housed at any university. The OMEGA system, which includes a 60-beam, high-peak-power laser, and the OMEGA EP, with four independent highly-advanced beamlines, keeps LLE a leader in laser science and serves as a national hub for cutting-edge research.

STELLAR partner Rochester Institute of Technology has more than 40 years of leadership in semiconductors and was the first bachelor's and master's programs in microelectronic engineering in the US. And partner Monroe Community College is a national leader in Optical Technician Training Programs. Downtown Rochester's NextCorps Luminate is an internationally recognized best in class OPI+L accelerator with strategic growth partners around the world.

When one includes health, manufacturing, information infrastructure, defense, and automotive technologies, it is hard to find a manufacturing process, system, or product that does not depend on lasers. In recent decades the country has had major initiatives in quantum technologies and in photonics. Future AI initiatives will require lasers at all phases of manufacturing and operation, yet the laser often remains the most vulnerable part of the supply chain. The supply of skilled workers who can build and work with lasers is equally critical and vulnerable.

We conclude that the next critical area of emphasis and investment must be in the laser science, engineering, entrepreneurship and education that together make all of these critical technologies work.

About the Author

Alexis Vogt and Thomas Brown, two of STELLAR lead coordinators. Alexis is the endowed professor and director of the optical systems technology program at Monroe Community College. Thomas Brown is professor and director of the University of Rochester's Institute of Optics. STELLAR's key partners include Monroe Community College, Rochester Institute of Technology, NextCorps, Luminate, Greater Rochester Enterprise, Rochester Museum and Science Center, and New York State.

The LIA Newsroom is your official source for the latest news, announcements, and updates from The Laser Institute and its members.

Promoting industrial innovation: ISI Laser strengthens Brazil's leadership in applied laser technologies

The SENAI Institute of Innovation for Laser Processing (ISI Laser) reinforces its mission to drive competitiveness and sustainability through advanced laser-based solutions.

SENAI Institute for Innovation in Laser Processing (ISI Laser), located in Joinville, Brazil, is the largest laser processing center in Latin America. With a multidisciplinary team and state-of-the-art infrastructure, ISI Laser develops innovative industrial applications in welding, coating, heat treatment, additive manufacturing, and surface texturing. The institute also specializes in the integration of robotic cells and computer vision systems, enabling continuous automation and precise control of laser-based manufacturing processes.

Through applied research and collaboration with major industrial sectors, including energy, oil & gas, automotive, and mining, ISI Laser translates scientific knowledge into practical solutions that enhance productivity, efficiency, and sustainability. Its projects combine advanced laser technology with process optimization, enabling significant gains in energy efficiency, material savings, and component performance. A prime example is the Digital Manufacturing Project developed in partnership with Petrobras, where more than 50 components have already been placed into operation. This initiative has reduced component delivery times from six months to just one week, preventing losses of up to two million dollars per hour during offshore platform downtime.

Beyond technological innovation, ISI Laser plays a leading role in professional training and technology transfer, preparing engineers and technicians for the future of advanced manufacturing. The institute's infrastructure includes four L-PBF systems, two L-DED machines, and five robotic arms, providing full flexibility for laser welding, cladding, and heat treatment applications. It also operates pulsed laser systems dedicated to surface texturing and functionalization, totaling around twenty laser setups overall. Complementing its processing capabilities, ISI Laser features fully equipped laboratories for mechanical and chemical characterization, as well as advanced microscopy facilities, including electron microscopes, that support in-depth material analysis. This comprehensive infrastructure enables ISI Laser to bridge fundamental research with industrial-scale application, reinforcing Brazil's position as a global player in laser-based innovation.

By fostering partnerships and promoting sustainable technologies, ISI Laser exemplifies how laser processing is transforming modern industry and shaping a more competitive and sustainable manufacturing landscape in the Americas.

Collaborating with ISI Laser means having access to cutting-edge laser technology with the strategic advantage of operating in Brazil: combining high performance with the cost efficiency of the local currency.

The LIA Newsroom is your official source for the latest news, announcements, and updates from The Laser Institute and its members.

Additive manufacturing drives innovation in the oil and gas industry: SENAI Institute advances digital transformation in Brazil

ISI Laser leads pioneering projects applying additive manufacturing to optimize components and transform maintenance logistics in the energy sector.

SENAI Institute of Innovation for Laser Processing (ISI Laser), based in Joinville, Brazil, is driving industrial transformation through advanced additive manufacturing solutions. In collaboration with major players in the oil and gas industry, ISI Laser is developing projects that redefine how critical components are designed, produced, and managed.

These initiatives leverage additive manufacturing technologies, including laser-based deposition and wire-fed processes, to fabricate high-performance parts with enhanced geometry, efficiency, and durability. By enabling design improvements and rapid production of customized components, the technology reduces lead times, lowers costs, and extends equipment lifespan in demanding offshore and onshore environments.

As a tangible outcome of these innovation projects, 50 components manufactured through additive processes are already in real operational use, demonstrating the reliability and maturity of these technologies for critical applications in the energy sector.

A key achievement of these projects is the shift from traditional physical inventories to digital part libraries, allowing companies to store validated 3D models instead of spare parts. This approach minimizes logistical challenges, decreases material waste, and ensures on-demand production wherever it is needed, a crucial advantage for remote operations.

Through these developments, ISI Laser reinforces its commitment to innovation, sustainability, and industrial competitiveness. By combining applied research, technology development, and workforce training, the Institute helps companies in the oil and gas sector adopt advanced manufacturing strategies that align operational efficiency with environmental responsibility.

In addition to this initiative, ISI Laser also works on the enhancement of joining processes through laser welding, on the development of sustainable cleaning methods using laser cleaning, and on surface functionalization via laser surface texturing and laser heat treatments. These technologies are supported by one of the most comprehensive laser infrastructures in the Americas, including high-power continuous and pulsed laser systems, additive manufacturing platforms (L-PBF and L-DED), and multiple robotic cells for process automation. Together, these resources expand the Institute's reach across the production chain, enabling high-precision, efficient, and environmentally conscious laser-based solutions for industries beyond oil and gas, such as automotive, energy, and mining.

ISI Laser invites industrial partners to explore how laser additive manufacturing can redefine efficiency, reliability, and sustainability in production. By collaborating with ISI Laser, companies can accelerate their digital transformation and develop next-generation solutions tailored to their operational challenges, opening new frontiers in advanced manufacturing.

WANT TO SHARE YOUR IDEAS WITH THE LASER COMMUNITY THROUGH *LIA TODAY*?

LIA TODAY

Check out the guest article guidelines below and get in touch with an editor today!

BEFORE YOU SUBMIT:

Content: We are always looking for great newsworthy content that covers challenges and innovations in the field of photonic materials processing, laser safety, and laser market trends. This is not a paid opportunity, but does carry the benefit of publishing your work on a platform that is read by thousands of your peers. All article topics should be confirmed with an LIA TODAY editor before writing your article. Please email your article ideas to liatoday@lia.org and an editor will be in touch with you.

Potential Categories: Safety, medical applications, research and development, laser applications fundamentals, history, business, and other categories.

Potential Industries: Energy storage, aerospace, DoD non-aerospace, automotive, medical devices and biotechnology, microelectronics and IC fabrication, Internet of Things, research and development, and other industries.

SUBMISSION GUIDELINES:

Style: The tone should be editorial and informative; it should not sound like a sales pitch. It should be comprehensible by a broad audience of readers with low to expert experience with the topic, so it is important to include examples and simple explanations alongside any technical language.

Length: 600 - 1500 words

Text: Please use standard fonts such as Arial, Calibri, or Times New Roman. Fonts, font sizes, and line spacing will be reformatted by LIA for the final piece. Grammar and mechanics will be edited to the LIA style guide by LIA, but please be mindful of spelling and grammar as you are writing so that your message is clear.

Headline: Please include two newsworthy headlines suggestions for your article using action verbs.

Images & Figures: Please include images to be used with the article. Submit as an email attachment (PNG, GIF, JPG, JPEG) (min. 1000px in width or height). Images should also be placed in the body of the text where the author would like them to appear in the final article. All figures or images should include captions.

Deadlines: All material is due no later than two weeks prior to the scheduled publishing date. Check with an editor for your deadline.

Note: LIA reserves the right to abstain from publishing a submitted article for any reason.

SUBMISSION CHECK LIST:

- Full text as a Word Document
  - Abstract: A 50 – 100 word summary in plain language
  - Two (2) headline suggestions using an action verb
  - Article 600 – 1500 Words
  - Images with captions placed in the body of the article
  - Article references when applicable
  - Short author *bio* (full title, company, 50 words)
  - (optional) Professional headshot of author
- Images attached in one of the accepted file types (.png, .tiff, .jpeg, .jpg) (min. 1000px width or height).

VIEW SUBMISSION FORM