

## Dilas Acquires Founding Site and Headquarters Building

Founded in 1994 in a state-owned building, Dilas has now acquired ownership. The previous owner, the Landesbetrieb Liegenschafts- und Baubetreuung Rheinland-Pfalz LBB, agreed to sell the building which Dilas expanded by adding another floor level and increasing the clean-room area.

The building includes 4200 square meters of office space, high-tech research laboratories and production area. The total property is approximately 5000 square meters.

The official hand-over of ownership took place on July 9th, between state government representatives

and Dilas' General Manager Dr. Marcel Marchiano. The state of Rheinland Pfalz was represented by Dr. Salvatore

Barbaro (Secretary, Ministry of Finance), Dr. Petra Wriedt (Deputy Managing Director, LBB), Mr. Andreas Nath (Portfolio Manager, LBB) and Mrs. Claudia Renner (Press Spokeswoman, LBB).

"By owning the building, we are now in a position to increase our competitiveness, by introduction of new production technologies. In addition, the necessary conversion work will be done under our own responsibility," said Dr. Marchiano."

[www.dilas.com](http://www.dilas.com)



The official hand-over of ownership took place on July 9th, between state government representatives and Dilas' General Manager Dr. Marcel Marchiano (right; source: Dilas)

## 25 Years of Pioneering Scanner Technology

Scanlab AG is celebrating its 25th anniversary and continues growing. Based in a Munich suburb, the OEM manufacturer of laser scan solutions supplies countless industrial and medical applications requiring precise positioning of laser beams. Developing galvanometer scanners and control electronics was the company's original focus and remains one of its core competencies.

Since 1990, Scanlab has emerged as a technology driver for scan solutions. Dr. Hans J. Langer founded the company shortly after creating EOS GmbH, today's market leader in additive manufacturing. Langer perceived a

broad need for high-quality scan solutions such as those EOS used in its own systems.

For Scanlab, Germany remains the undisputed location of choice for not only R&D and production, but also expansion: A groundbreaking ceremony took place in August for the third expansion phase of Scanlab's headquarters, adding 5500 square meters of floor space to the already existing 6500. The new building sections will be ready for occupancy by the end of 2016. And the company possesses additional land reserves for future expansions.

Scanlab CEO Georg Hofner explains the positive de-



Expansion of Scanlab headquarters in Puchheim near Munich, to be completed in 2016. (Source: Scanlab)

velopments: "2015 is a milestone not only in terms of our anniversary, but also because we introduced more new products than ever at this year's Laser World of Photonics tradeshow in Mu-

nich. In general, the photonics industry continues growing while new laser-scanner applications arise worldwide."

[www.scanlab.de](http://www.scanlab.de)

## EPIC Signs Cooperation Agreement with Guangdong Laser Industry Association



Successful collaboration between EPIC members and the Guangdong Laser Industry Association (Source: EPIC).

The agreement will benefit both parties as members of EPIC supply key photonic components that can be incorporated into laser systems developed by GDLIA members. A buyer's delegation from GDLIA was introduced to several members of EPIC during the Laser World of Photonics exhibition in Ger-

many, lunch and dinner opportunities were organized with the members of the association to further strengthen interpersonal relations.

Laser Manufacture News and [www.laserfair.com](http://www.laserfair.com) are efficient platforms to reach out to the Chinese market. "Since China is a major market for many members of

EPIC, I am pleased to expand our current collaboration which has been very fruitful so far" says Carlos Lee from EPIC.

[www.epic-assoc.com](http://www.epic-assoc.com)

## Factory of the Future on the Stuttgart Research Campus

Trumpf is embarking on a five-year strategic joint venture with the Stuttgart-based Fraunhofer Institute for Manufacturing Engineering and Automation IPA. The aim of this long-term cooperation is to integrate current research findings from Industry 4.0 into sheet metal processing. In the so-called "Trumpf LAB," employees of Trumpf and Fraunhofer IPA will be working together to develop innovative solutions for the manufacturing technology of the future.

The Trumpf LAB is part of the Stuttgart Technology and Innovation Center, S-TEC. This concept of a collaborative research campus was the brainchild of the

IPA and Stuttgart University as well as its affiliated institutions. Stuttgart's other Fraunhofer Institutes and regional and national companies also joined S-TEC, which has produced not only the technology-oriented Trumpf LAB but also initiatives such as "Arena 2036" for lightweight construction.

IPA Director Prof. Thomas Bauernhansl explains: "This industry-on-campus concept represents a research, development and demonstration environment producing hands-on innovative solutions. I'm very optimistic that the results from this cooperation will not only be of market relevance for the com-

pany itself but also for other firms from other sectors." The cooperation will include many aspects of the factory of the future, with the initial projects focusing on "intralogistics", "the service-oriented machine" and "self-governing production." The aim is for content to evolve during the course of the joint venture – so new project topics will be regularly added.

The expectations of Dr. Heinz-Jürgen Prokop, Director of Development and Purchasing at Trumpf, are correspondingly high: "We plan to elaborate ideas for new solutions and business models, and develop them further using application-based functional models. The goal



Trumpf Project Manager Klaus Bauer, Dr. Heinz-Jürgen Prokop, Prof. Thomas Bauernhansl, and IPA Project Manager Ulrich Schneider in the "Application Center Industry 4.0" (from left; Source: Fh. IPA / C. Hess)

is to raise the productivity and profitability of companies in sheet metal production to a new level."

[www.ipa.fraunhofer.de](http://www.ipa.fraunhofer.de)  
[www.trumpf.com](http://www.trumpf.com)

## Fraunhofer ILT Named Partner of the Innovative Manufacturing CRC in Melbourne

A new cooperative research center for innovative manufacturing technology is being established in Melbourne. On May 26, 2015, Australia's Minister for Industry and Science, Hon. Ian Macfarlane MP, gave the green light for the Innovative Manufacturing Cooperative Research Centre, IMCRC at the parliament building in Canberra, kicking off the initiative. This joint research project is set to foster collaboration between research and industry in the field of additive manufactur-

ing. The focus is on the R&D of additive manufacturing processes, developing automated and supportive technologies, high-quality products and, finally, transferring the technology to industry.

Fraunhofer ILT will play a key role in two IMCRC research areas. These include additive manufacturing of 3D multi-material systems and components as well as expanding its areas of application, particularly in electrical engineering and medical technology (implants). To

meet these scientific challenges, ILT will be providing a major share of the personnel, plant and system technology and will receive direct funding from Australia.

According to IMCRC interim chair Dr. Peter Jonson, the project's total budget is in the region of 250 million Australian dollars, consisting of 40 million Australian dollars in Commonwealth funding and another 210 million Australian dollars in contributions from industry. The initiative is launching with

a total of 18 international manufacturing companies, more are set to join in the next few years. In addition, 16 international universities and research institutions are participating in the IMCRC alongside many well-known Australian universities, such as RMIT, which has had a close partnership with the ILT for many years already. The ILT is the only German R&D organization partnering with the IMCRC.

[www.ilt.fraunhofer.de](http://www.ilt.fraunhofer.de)

## Tünnermann Receives First ERC Advanced Grant for Jena University

The Director of the Institute of Applied Physics at the University of Jena, Prof. Dr. Andreas Tünnermann, has received an Advanced Grant of the European Research Council (ERC) for the continuation of his work on laser physics research. The ERC had ranked Tünnermann's research as "excellent". The funds amounting to at least two million euros are now available to Tünnermann and our team over the next five years to further basic research in the field of fiber lasers. The ERC Ad-

vanced Grant is one of the most highly endowed international research awards. "That such research budget now goes to Jena, is a huge success and demonstrates once again the enormous power of the scientific center of Thuringia," said the Minister of Science, Wolfgang Tiefensee. He congratulated Tünnermann on the award and also promised further support of the state.

"I am delighted to receive this award, which is the award for my entire team at the same time", says Tünner-



Andreas Tünnermann (right) in a conversation with Minister Wolfgang Tiefensee (Source: T. Zippel, OTZ)

mann which thus receives the Advanced Grant as the first scientist at the University of Jena. The funding lays the foundations for further innovations in the field of

fiber lasers for material processing, medical technology (diagnostics) and in space (measuring technology).

[www.iap.uni-jena.de](http://www.iap.uni-jena.de)

## Stefan Hengesbach and Ulf Quentin Received WLT Award 2015

On June 22, 2015 the Wissenschaftliche Gesellschaft



Dr. Stefan Hengesbach develops optical concepts for diode laser modules for more efficient processes. (Source: Fh.-ILT)

Lasertechnik e.V. (WLT) conferred Dr.-Ing. Stefan Hengesbach with the 2015 WLT Award.

As one of two winners, he received the Award, endowed with €2,000, for his extraordinary scientific achievements in the field of laser technology. Hengesbach has extensively dealt with thermal, electrical and optical concepts for diode laser modules, frequency stabilization and tight spectral

multiplexing. Within the last six years he has developed pioneering concepts in this field to significantly increase beam density and brilliance with great relevance for commercial use.

His frequency-stabilized diode laser sources can be used to pump new laser media with narrowband absorption band < 0.5 nm and to increase the efficiency of existing laser systems. In the end, He increased beam

density by up to two orders of magnitude through frequency multiplexing.

Dr. Ulf Quentin, a former employee of the Department of Photonic Technology at the Bayerisches Laserzentrum BLZ, was also honored for his outstanding work in the field of laser-based nanostructuring with optically positioned microlenses.

[www.ilt.fraunhofer.de](http://www.ilt.fraunhofer.de)

## Open Call for Applications for the Innovation Award Laser Technology 2016

The Innovation Award Laser Technology is a European research and technology prize provided with 10.000 Euro prize money and awarded biannually, jointly by the associations Arbeitskreis Lasertechnik e.V. and the European Laser Institute ELI in recognition of outstandingly innovative work in the field of laser technology. The call for proposals is open, closing date for applications is January 15, 2016.

The official presentation of the award will take place in Aachen's town hall on April 27, 2016 at the Inter-

national Laser Technology Congress AKL'16. The Innovation Award addresses laser manufacturers, laser users and researchers, who have successfully conceived and implemented an innovative idea relating to laser technology, following the project through from application oriented research to ultimate industrial application. The closed scientific and technological projects in question must center on the use of laser light in materials processing and the methods of producing such light, and must furthermore be in their

practical implementation of demonstrable commercial value to industry.

### Eligible applicants

The award can be conferred on an individual researcher or on an entire project group. Eligible are only applicants, working in industry or at universities or independent research centers established in Europe. The range of possible fields extends from the development of new laser beam sources and systems for use in laser materials processing to the qualification of innovative laser manufac-

turing processes for use in an industrial production environment.

The best three applicants will be awarded with the 1st, 2nd and 3rd prizes. The prizewinner will receive furthermore the sum of 10,000 euros, and be awarded the title of "AKL fellow" and "ELI fellow". The finalists are being interviewed by the editors of this magazine during the official presentation of the award which will take place at AKL'16.

[www.akl-ev.de](http://www.akl-ev.de)  
[www.lasercongress.org](http://www.lasercongress.org)





## Dr. Keming Du Wins LIA's 2015 Arthur L. Schawlow Award

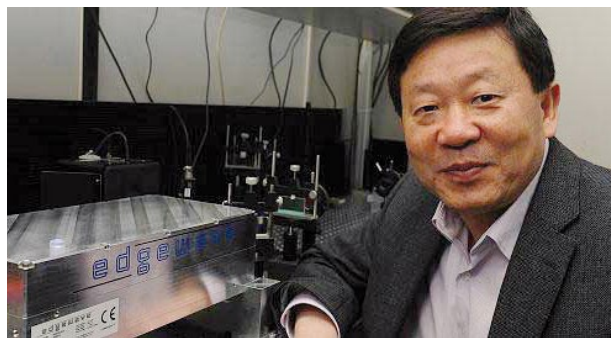
With more than 70 patents or patent applications and more than 100 publications in a career spanning three decades, EdgeWave founder Dr. Keming Du is being honored as the Laser Institute of America's 2015 Arthur L. Schawlow Award winner.

The LIA Schawlow Award recognizes the recipient's longstanding record of laser industry innovation and contributions to basic and applied research in laser science and engineering leading to fundamental understanding of laser materials interaction and/or transfer of laser technology for increased application in industry, medicine and daily life.

Du, who spearheaded development of diode and solid-state lasers at the Fraunhofer Institute for La-

ser Technology ILT from 1985 to 2001, spun off EdgeWave in 2001 to offer innovative solutions in compact diode-pumped solid-state lasers for different applications. Under Du's leadership, EdgeWave won the 2012 Stifterverbandspreis Wissenschaft and, in the same year, the 1st prize of the Innovation Award Laser Technology granted by Arbeitskreis Lasertechnik and the European Laser Institute.

As for the company he created, EdgeWave "is the pioneer and technology leader of InnoSlab lasers and amplifiers," he explained. "The mission of EdgeWave is continuously scaling the power and energy of short-pulse and ultra-short pulse lasers, providing highly reliable and affordable laser solutions



2015 Arthur L. Schawlow Award Winner Dr. Keming Du (Source: M. Jaspers)

and broadening the lasers' application areas."

LIA presented the first award in 1982 to Schawlow, who won the Nobel Prize in physics in 1981. Schawlow was co-recipient of the 1960 patent for the maser with Charles Townes.

Du will receive the honor of the Schawlow Award on October 21 during the

awards luncheon at the 34th annual International Congress on Applications of Lasers & Electro-Optics ICALEO in Atlanta, Georgia.

[www.lia.org](http://www.lia.org)

## Jenoptik Welcomes Two New Members of the Supervisory Board



Evert Dudok and Doreen Nowotne (Source: Jenoptik)

At the request of the Jenoptik Executive Board, with the unanimous assistance of the Supervisory Board and the Works Council, Jena district court appointed two members to the Supervisory Board of Jenoptik AG by order of July 22, 2015. In accordance with the court order, Doreen Nowotne and Evert Dudok will take up their positions

with immediate effect and be put forward for election by the AGM in June of next year.

Nowotne holds a degree in business administration from Dresden University of Applied Sciences and has recently been a member of the Supervisory Board of Brenntag AG, a chemicals distribution company listed on the MDax, since 2010.

Dudok has been EVP Communications, Intelligence and Security, and a member of the Executive Board at Airbus Defence & Space since 2014. The native of the Netherlands is an electrical engineer with over thirty years experience in the aerospace industry.

[www.jenoptik.com](http://www.jenoptik.com)

## Change in the Management of Fisba AG

As part of the long-term development of Fisba AG, a change in the company's management has taken place on 15 August. Werner Krüsi, who has been Managing Director for many years, handed over his responsibilities to Markus Hersche.

For the last five years, Markus Hersche had already been a member of the Supervisory Board of Fisba AG and now, having been appointed as CEO, is moving into the

operative management of this internationally active optics company with head office in eastern Switzerland.

Born in Switzerland, Hersche has many years of international management experience in the primary pharmaceutical packaging industry, and has been involved in establishing and managing various companies worldwide, such as for Schott Forma Vitrum, Datwyler and the Stevanato Group.

In his new function, Hersche will continue to establish the strategy successfully implemented in recent years and drive the development of innovative photonics applications as well as the internationalization of the company.

Werner Krüsi will remain active in the company following the handover and will join the Supervisory Board.

[www.fisba.com](http://www.fisba.com)



New Fisba CEO Markus Hersche (Source: Fisba)

## Change of Management at Trumpf Haguenau

On June 30, 2015, Trumpf Haguenau in Alsace was not only celebrating its 30th anniversary, but was also bidding a fond farewell to its longtime manager, Georges Reiss, as he enters retirement. Reiss was involved in the development of the Haguenau site from the very beginning; he has done more than anyone else in shaping it over the years.

Haguenau specializes in large-scale precision and welded assemblies. It makes the machine frames for laser, punching and punch laser machines that originate in Europe. Trumpf invested in the site's future just last year by constructing a new production hall, thereby expanding the production area by 6500 square meters.



Georges Reiss (left), former managing director of Trumpf Haguenau, and Tomas Wolf (right), future head of Trumpf Machines SARL. (Source: Trumpf)

Tomas Wolf, who has been with the company since 1996, takes over as Reiss's successor on July 1, 2015. Wolf spent four years as head of recruitment and personnel support at Trumpf in Ditzingen before moving to Haguenau in 2000 to take

responsibility for the commercial side of the business. After progressing to site manager, he then became head of quality management for the Machine Tool Division of the Trumpf Group.

[www.trumpf.com](http://www.trumpf.com)

## LPKF Strengthens Strategic Structures for LDS and Rapid PCB Prototyping

LPKF Laser & Electronics AG enhances its structures in two relevant divisions. Two experienced engineers take over new positions of important interfaces with customers: Malte Fengler is the new Strategic Product Manager MID and Stephan Krause becomes Sales Director for Rapid PCB Prototyping.

Malte Fengler graduated from Hannover University earning a degree in electrical engineering and radio frequency technology. Since 2011 he has worked for the laser equipment manufacturer LPKF in the field of Molded Interconnect Device (MID) technology. This technology enables the production and placement of circuit layouts on complex three-dimensional carrier structures. More than half of the 3D components are produced with the LPKF LDS process (Laser Direct Struc-



Stephan Krause (left side) and Malte Fengler (right side) will work closely together in their new roles. (Source: LPKF)

ture). Fengler is concerned with process engineering, feasibility studies, global customer support, and applications. In addition, he is in charge of existing as well as newly developed LDS substrate materials, and process consulting.

Effective August 2015, he succeeded Stephan Krause as the new Strategic Product Manager MID and has taken over the responsibility for current and future markets as well as new applications

in the field of LDS MID technology.

Krause had acted as a Sales Engineer since 2002 and supported the LPKF team as Strategic Product Manager LDS since August 2012. In October 2015, he moves to the Rapid PCB Prototyping division and takes charge of the worldwide RP sales activities. Moreover, he manages the contacts with the RP distributors.

[www.lpkf.com](http://www.lpkf.com)