

EPIC ANNUAL GENERAL MEETING

7-8 April 2022
Vilnius, Lithuania

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3rd place at European Capital of Innovation awards in 2021

The official development
agency of the City of Vilnius
www.govilnius.lt

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TUESDAY, 5 APRIL

9:00 - 18:00 Company visits

WEDNESDAY, 6 APRIL

9:00 - 15:45 Company visits

18:00 - 22:00 Welcome Reception at Skybar, Radisson Blu Hotel Lietuva (top floor)

THURSDAY, 7 APRIL

7:30 - 9:00 Run / Walk + Networking Breakfast

7:35 Departure Run / Walk from Radisson Blu Hotel Lietuva
Radisson Blu Hotel Lietuva (lobby)

8:30 Breakfast at Radisson Blu Hotel Lietuva

9:00 Registration and Welcome Coffee at Radisson Blu Hotel Lietuva

9:45 - 11:30 EPIC Lithuanian members presentations:

Marius Šemeta, CEO at 3photon

Antanas Laurutis, CEO at Altechna

Gediminas Rašiukaitis, Head of Department of Laser Technologies at Center for Physical Sciences and Technology

Šarūnas Vaškelis, Representative at Direct Machining Control

Tadas Kildušis, CSO at ELAS

Dainius Tumosa, CEO at EKSMA Optics

Aldas Juronis, CSO at EKSPLA

Titas Gertus, CEO at Femtika

Nikolajus Gavrilinas, CEO at Litilit

Andrius, Melninkaitis, CEO at Lidaris

Martynas Barkauskas, CEO at Light Conversion

Gediminas Račiukaitis, President at Lithuanian Laser Association

Tadas Lipinskas, CEO at Optogama

Remigijus Šliupas, CEO at Optoman

Evaldas Stralkus, Chief Business Development Officer at Optonas

Antanas Urbas, Chief Scientist at Workshop of Photonics

Gintas Jakubėnas, CEO at QS Lasers

11:30 - 13:00 Registration and Lunch at Radisson Blu Hotel Lietuva

PROGRAMME

13:00 - 13:30 OPENING OF EPIC ANNUAL GENERAL MEETING 2022

Welcome - **Ingrida Šimonytė**, Prime Minister of Lithuania

Welcome - **Remigijus Šimašius**, Mayor of Vilnius

Welcome - **Benno Oderkerk**, President at EPIC

Board introduction and changes

EPIC staff introduction

13:30 - 14:30 EPIC UPDATE

EPIC Review 2021

EPIC Future plans

EPIC Financials Approval, Benno Oderkerk, President at EPIC

14:30 - 15:15 SESSION 1: MARKET, TECHNOLOGY, MANUFACTURING

Stefan Traeger, President and CEO at Jenoptik

Basil Garabet, CEO at NKT Photonics

15:15 - 16:00 Coffee Break

16:00 - 17:00 SESSION 1: MARKET, TECHNOLOGY, MANUFACTURING (continued)

Johan Feenstra, CEO at SMART Photonics

Eric Lindner, CEO at FBGS

Markus Riedi, CEO at Opto

17:00 - 18:00 SESSION 2: GROWTH, MARKETING, AND INTERNATIONALIZATION

Bruno Gross, General Manager at Thorlabs

Rüdiger Paschotta, Managing Director at RP Photonics

Guy Ear, CEO at Optosigma

18:15 - 18:30 PRESENTATION OF THE EPIC CEO AWARD 2022

18:40 Bus departure from Radisson Blu Hotel Lietuva to the Gala dinner at Palace of the Grand Dukes of Lithuania (meeting point – Radisson Blu Hotel Lietuva, lobby, 1st floor)

19:00 - 22:30 NETWORKING DINNER AT PALACE OF THE GRAND DUKES

22:45 Bus departure from the Palace of the Grand Dukes of Lithuania to Radisson Blu Hotel Lietuva

FRIDAY, 8 APRIL

8:00 - 8:30 Welcoming coffee at Radisson Blu Hotel Lietuva

8:30 - 9:30 SESSION 3: ADVOCACY AND INVESTMENT

Laisvis Makulis, Vice President at Invest Lithuania

Gabriel Crean, Senior Advocacy Advisor at EPIC

Maria Lundqvist and Brendan McDonagh, European Investment Advisory Hub (EIB)

Antonio Raspa, Senior Photonics Technologies Program Manager at EPIC

Jean Schmitt, Managing Partner at Jolt Capital

9:30 - 10:00 SESSION 4: INVESTORS PROFILE AND VISION OF PHOTONICS MARKET AND OPPORTUNITIES

Companies looking to invest:

Jean Schmitt, Managing Partner at Jolt Capital

Elad Volfin, Chief Revenue Officer at Monocrom

Jan Meise, CEO at AMS Technologies and Advisor at Egora Ventures

Pieter Klinkert, Fund Manager at PhotonDelta

Marek Kotelnicki, Managing Partner at VIGO Ventures

10:00 - 10:45 Coffee break

10:45 - 12:00 Companies looking for investors:

Ronny Timmreck, CEO at Senorics

Daan Kersten, CEO at PhotonFirst

Stefan Weber, CEO at Phaseform

Viacheslav Artyushenko, CEO at art Photonics

Thor Ersted Ansbæk, CEO at OCTLIGHT

Peter Tøttrup, CEO NLIR

Nikolajus Gavrilinas, CEO at LITILIT

Evaldas Stralkus, CBDO at Optonas

Jan Kischkat, CEO at Quantune Technologies

Carlos Viana, CEO at ICON Photonics

Jean Berney, COO at Deeplight

Michael Bailly, CEO at Silina

12:00 - 12:30 SESSION 5: RECRUITMENT

Salary Survey Results Presentation

Frank Wolfs, Talent Acquisition Director at Profound Resources

Djordi van Beek, Division Director at Orion Engineering - Careers in Technology

12:45 - 13:00 ANNOUNCEMENT OF NEXT EPIC AGM

13:00 Networking Lunch at Radisson Blu Hotel Lietuva (Riverside restaurant, 1st floor)

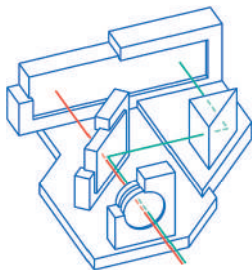
15:00 End & bus transfer to Vilnius airport (optional)

New chapter in our optical manufacturing journey

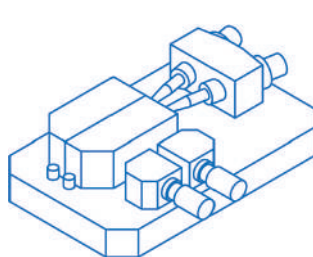


Expanding our technological capabilities

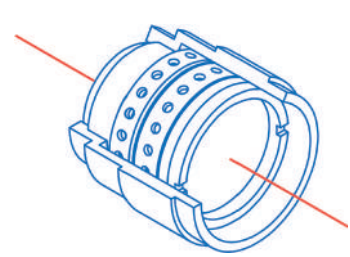
With an increase in demand for optomechanical and optical assemblies, the company is strengthening and expanding its service by introducing a new line – optomechanical assemblies and subassemblies based on customers' designs.



Complex optical assembly



Custom tooling



Standard optomechanics

PARTICIPANTS

NAME	SURNAME	JOB TITLE	COMPANY	COUNTRY
Adam	Piotrowski	President of the Board	VIGO Photonics	Poland
Aivaras	Urnėžius	Key Account Manager	Light Conversion	Lithuania
Albert	Hasper	CEO	PHIX	The Netherlands
Aldas	Juronis	CPO	Ekspla	Lithuania
Alexander	Telle	CEO	ACM Coatings (subsidiary of Acktar)	Germany
Ana	Gonzalez	Director of Strategic Partnerships	iPRONICS	Spain
Andreas	Umbach	CEO	AUCCEPT Consulting	Germany
Andreas	Börner	CEO	Laser 2000	Germany
Andris	Anspoks	Director	Institute of Solid State Physics	Latvia
Andrius	Melninkaitis	CEO	Lidaris	Lithuania
Anna	Trachtova	Marketing Manager	EPIC	Czech Republic
Antanas	Laurutis	CEO	Altechna	Lithuania
Antoine	Dubrouil	Co-Founder and CEO	FEMTO EASY	France
Antonio	Raspa	Technology Manager	EPIC	Italy
Ardan	Fuessmann	Sales Director	USHIO Europe	Germany
Auri	Ripoll	Marketing Manager	EPIC	Spain
Bárbara	Buades	CEO & Co-Founder	MEETOPTICS	Spain
Basil	Garabet	President and CEO	NKT Photonics	Denmark
Beate	Sauter	Vice President	Lumics	Germany
Benjamin	Bulla	Managing Director	son-x	Germany
Benno	Oderkerk	CEO	Betada Investments	The Netherlands
Benoît	d'Humières	Partner	TEMATYS	France
Brendan	McDonagh	Advisor	European Investment Advisory Hub (EIB)	Luxembourg
Bruno	Gross	General Manager	Thorlabs	Germany
Cara	Gau	CEO Executive Assistant	Leverage Technology	The Netherlands
Carles	Romani Chiva	CEO	Monocrom	Spain
Carlos	Lee	Director General	EPIC	Belgium
Carlos	Viana	CEO	ICON Photonics	France
Christian	Bosshard	Managing Director	Swissphotonics	Switzerland
Claire	Valentin	Chief Strategy Officer	Photonis	France
Claudio	Meli	CEO / CFO	wzw-optic	Switzerland



**Femtosecond
Picosecond
Nanosecond**

Advanced Laser Technologies

- / Tunable wavelength
- / Ultrafast industrial
- / High intensity systems
- / Spectroscopy systems

 **EKSPILA**

PARTICIPANTS

NAME	SURNAME	JOB TITLE	COMPANY	COUNTRY
Clifford	Jolliffe	Head of Industrial Automation	Physik Instrumente (PI)	United Kingdom
Daan	Kersten	CEO	PhotonFirst	The Netherlands
Dainius	Tumosa	CEO	EKSMA Optics	Lithuania
Daniel	Petters	CEO	Cycle	Germany
David	Gillett	CEO	Laser 2000 (UK)	United Kingdom
Djordi	van Beek	Division Director	Orion Engineering	The Netherlands
Elad	Volfin	CRO	Monocrom	Spain
Elisenda	Lara	Marketing Manager	EPIC	Spain
Elkana	Ben-Sinai	COO	Civan Lasers	Israel
Eric	Mottay	CEO	AMPLITUDE	France
Eric	Lindner	CEO	FBGS Technologies	Germany
Erwin	De Baetselier	CEO	Luceda Photonics	Belgium
Eugen	Baerwald	Area Sales Manager Europe	MPS Micro Precision Systems	Switzerland
Evaldas	Stralkus	Chief Business Development Officer	Optonas	Germany
Ewit	Roos	CEO	PhotonDelta	The Netherlands
Florent	Thibault	CEO	QiOVA	France
Florian	Döring	CEO	XRnanotech	Switzerland
Florian	Emaury	CEO	Menhir Photonics	Switzerland
Francesca	Moglia	Technology Manager	EPIC	Germany
Frank	Ernst	Business Development Manager	NTS Optel	The Netherlands
Frank	Wolfs	Founder and CEO	Profound Corporate Recruitment	The Netherlands
Gabriel	Crean	Senior Advocacy Advisor	EPIC	Luxembourg
Gediminas	Račiukaitis	Head of Department	Center for Physical Sciences and Technology	Lithuania
Gintaras	Valušis	Director	Center for Physical Sciences and Technology	Lithuania
Gintas	Jakubėnas	CEO	QS Lasers	Lithuania
Gintas	Šlekys	CEO	Workshop of Photonics	Lithuania
Glenn	George	CEO	Bay Photonics	United Kingdom
Guy	Ear	Chairman & CEO	OPTOSIGMA	France
Helena	Jelinkova	Events Manager	EPIC	Czech Republic
Henrik	Skov Andersen	CEO	Ibsen Photonics	Denmark
Henrik	Madsen	CEO	SPIO Systems	Denmark

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LIGHT CONVERSION designs and manufactures ultrafast lasers, optical parametric amplifiers (OPAs) and oscillators (OPOs), chirped pulse non-collinear optical parametric amplifier systems (OPCPAs) for industrial, scientific and medical applications, as well as laser spectroscopy and microscopy systems.



FEMTOSECOND SOLUTIONS FOR INDUSTRY & SCIENCE

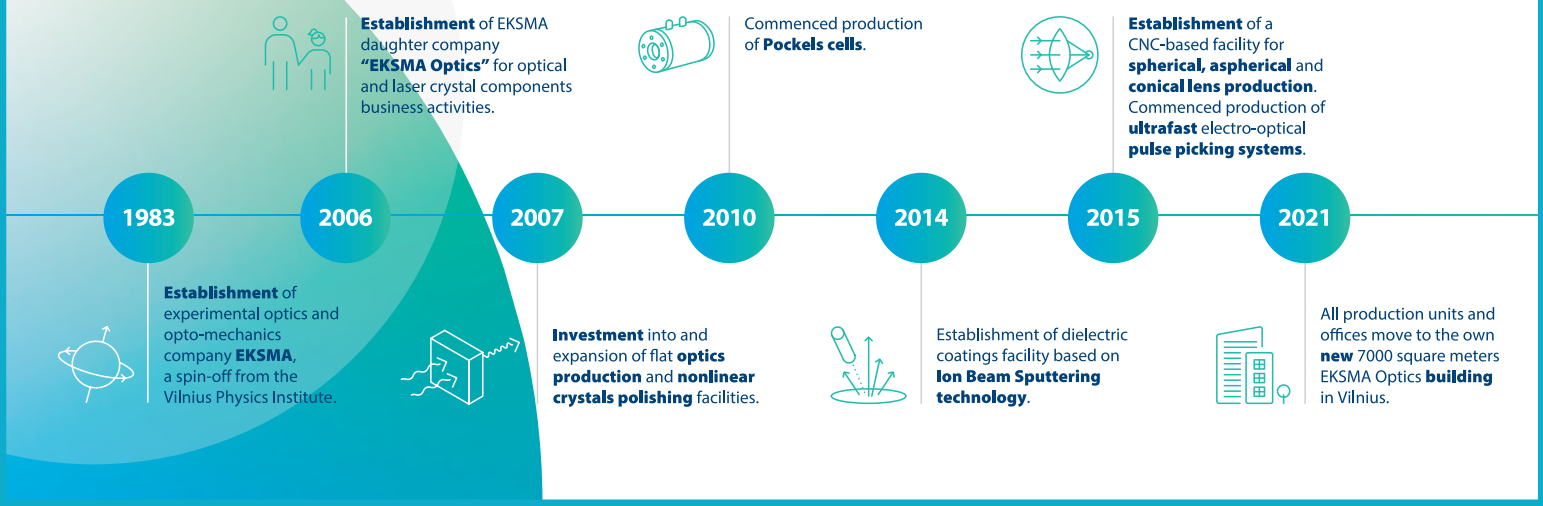
PARTICIPANTS

NAME	SURNAME	JOB TITLE	COMPANY	COUNTRY
Ian	Reilly	Managing Director	VORTEX OPTICAL COATINGS	United Kingdom
Ivan	Nikitski	Technology Manager	EPIC	France
Jan	Stensborg	CEO	Stensborg	Denmark
Jan	Meise	CEO	AMS Technologies	Germany
Jan	Kischkat	CEO	Quantune Technologies	Germany
Jan Hendrik	Peters	Owner	bmbg consult	Germany
Jean	Schmitt	Managing Partner	Jolt Capital	France
Jean-François	Morizur	CEO	Cailabs	France
Jeremy	Picot - Clemente	Technology Manager	EPIC	France
Jiri	Martan	Head of Laser Microprocessing Team	University of West Bohemia	Czech Republic
Johan	Feenstra	CEO	SMART Photonics	The Netherlands
Johannes	Koeth	CEO	nanoplus	Germany
Jussi	Rahomaki	President & CPO	Dispelix	Finland
Jyrki	Huttunen	CEO	Oplatek Group	Finland
Karolis	Štašys	Innovation Manager	Center for Physical Sciences and Technology	Lithuania
Karsten	Verhaegen	CEO	Sentea	Belgium
Kestutis	Jasiunas	CEO	Ekspla	Lithuania
Laurynas	Šatas	CTO	Altechna	Lithuania
Maksym	Sich	CEO	AEGIQ	United Kingdom
Marco	Mayer	Strategic Business Development Manager	Hamamatsu Photonics	Switzerland
Marek	Kotelnicki	Managing Partner	VIGO Ventures	Poland
Maria	Lundqvist	Finance Advisor	European Investment Advisory Hub (EIH)	Luxembourg
Marius	Šemeta	CEO	3photon	Lithuania
Markus	Riedi	CEO	Opto	Germany
Markus	Kogel-Hollacher	Head of Dept. R&D Projects	Precitec	Germany
Martin	Schell	Executive Director	Fraunhofer HHI	Germany
Martynas	Barkauskas	CEO	Light Conversion	Lithuania
Matthew	Dale	Deputy Editor	Electro Optics	United Kingdom
Matthias	Imboden	CEO	4K-MEMS	Switzerland
Michael	Bailly	CEO & Co-Founder	SILINA	France
Michael	Rotschädl	CEO	Mountain Photonics	Germany

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Optics for multi kw Laser Systems


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LASER IS AS STRONG AS ITS WEAKEST LINK!

99.9997%

R=T+A+S

<1 ppm <1 ppm <1 ppm

LIDT @ 1030 nm:

>1 J/cm², 500 fs

>5 J/cm², 10 ps

PARTICIPANTS

NAME	SURNAME	JOB TITLE	COMPANY	COUNTRY
Michael	Hornung	Managing Director	AMO	Germany
Michał	Muniak	CEO	SOLARIS OPTICS	Poland
Michał	Nejbauer	CEO	Fluence	Poland
Neringa	Noreikiene	Events Manager	EPIC	Lithuania
Nicoletta	Casanova	CEO	FEMTOprint	Switzerland
Nikolajus	Gavrilinas	CEO	Lilit	Lithuania
Olivier	Dupont	CEO	LAMBDA-X	Belgium
Panagiotis	Vergyris	Technology Manager	EPIC	Italy
Paulius	Gečys	Head of Laboratory	Center for Physical Sciences and Technology	Lithuania
Paulius	Bliškevičius	Sales Engineer	Light Conversion	Lithuania
Paulius	Naujalis	Operations Manager	VLC Photonics	Spain
Per	Karlsson	CEO	NorthLab Photonics	Sweden
Peter	Tottrup	CEO	NLIR	Denmark
Petras	Balkevičius	Chief Executive	Lithuanian Laser Association	Lithuania
Pieter	Klinkert	Fund Manager	PhotonDelta	The Netherlands
Reinhard	Voelkel	CEO	SUSS MicroOptics	Switzerland
Remigijus	Šliupas	CEO	OPTOMAN	Lithuania
Rene	Louwers	Director	Orion Engineering	The Netherlands
Rob	Voorkamp	CEO	SCIL Nanoimprint Solutions	The Netherlands
Robert	Harrison	Managing Partner	SONNENBERG HARRISON PARTNERSCHAFT	Germany
Ronny	Timmreck	CEO	SENRICS	Germany
Rüdiger	Paschotta	Managing Director	RP Photonics	Switzerland
Sami	Musa	CEO	Chilas	The Netherlands
Samuel	Bucourt	CEO	Imagine Optic	France
Samuel	Poulain	Director General	Le Verre Fluoré	France
Šarūnas	Vaškėlis	CEO	Direct Machining Control	Lithuania
Sebastien	Ermeneux	CEO	AeroDIODE	France
Sébastien	Brun	CEO	Sy&Se	Switzerland
Sergei	Tsarev	CEO	Astrum LT	Lithuania
Stefan	Traeger	CEO	JENOPTIK	Germany
Stefan	Weber	CEO	Phaseform	Germany

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ANGIS


GAIN-SWITCHED **1064 nm** PICOSECOND
MINI LASER

- > 1 μ J pulse energy
($>100 \mu$ J after the First Amplification Stage)
- > Short pulse duration < 50 ps (<20 ps available)
- > **No Semiconductor Modulator (SESAM),
no Mode Locking**
- > Repetition Rate up to **10 kHz**
- > **Ultra-compact**
- > Passively or Actively Q-switched 880 nm Pump Laser
- > Single 808 nm Pump Source for 880 nm Pump Laser
and for 1064 nm Preamplifier
- > **Series Production**

AGRIUS

DIODE PUMPED SUB-NANOSECOND PASSIVELY
OR ACTIVELY Q-SWITCHED **880 nm** MINI LASER

- > True Three Level Nd doped Laser
- > 10 μ J pulse energy at **880 nm**
- > Short pulse duration < 1 ns (Passively QS)
and < 0.5 ns (Actively QS)
- > Repetition Rate up to 10 kHz
- > **Ultra-compact**
- > Second Harmonics **440 nm**
- > **Series Production**

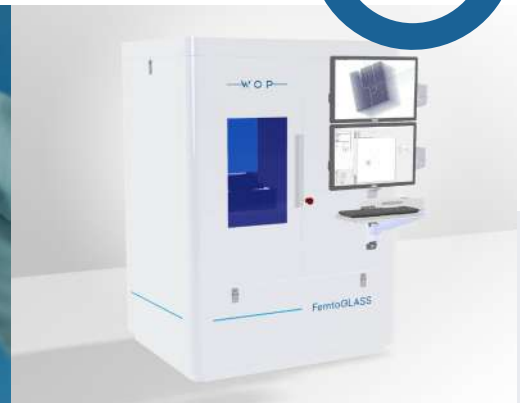
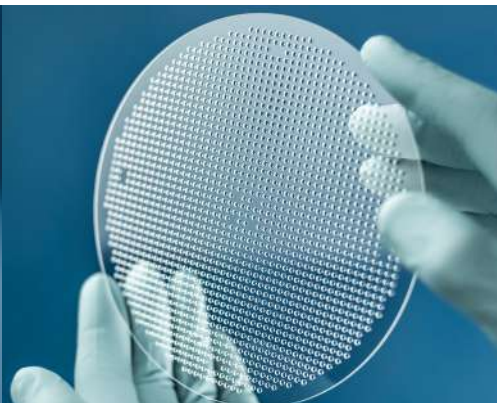
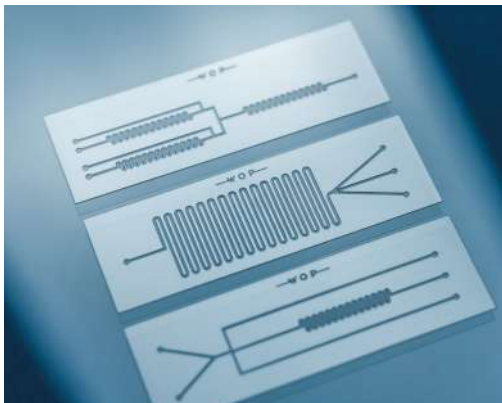
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PARTICIPANTS

NAME	SURNAME	JOB TITLE	COMPANY	COUNTRY
Stephan	Prinz	Product Manager	DELO Industrie Klebstoffe	Germany
Stoessel	Rene	CEO	Posalux	Switzerland
Tadas	Lipinkas	CEO	Optogama	Lithuania
Tadas	Kildušis	President	ELAS	Lithuania
Tapio	Kallonen	CEO	Specim	Finland
Taras	Lisouski	CEO	EssentOptics	Belarus
Thomas	Neicke	CEO	B2Science	Germany
Thor	Ansbaek	CEO	OCTLIGHT	Denmark
Tim	Kunze	CEO	Fusion Bionic	Germany
Tim	Hellwig	CEO	Refined Laser Systems	Germany
Titas	Gertus	CEO	Femtika	Lithuania
Tom	Pearsall	Founder	EPIC	France
Udo	Fetzer	Key Account Manager	OFS	Germany
Ulrike	Helfferich	COO	EPIC	Germany
Viacheslav	Artyushenko	President	art photonics	Germany
Volker	Blank	CEO	LayTec	Germany
Wojciech	Smoliński	Managing Partner	VIGO WE Innovation	Poland
Wolfgang	Wieser	CEO	Optores	Germany

CONNECTION
ANALYSIS
DATA
SEARCHING
VERIFICATION
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website for jobs
in photonics

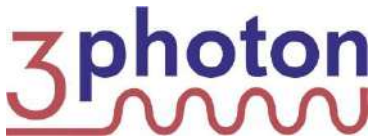
www.jobs-in-photonics.com



EPIC members are companies and organizations in the field of photonics covering optics, fibers, sensors, lasers, LEDs, detectors, displays. EPIC members are technology leading edge companies, covering the entire value chain from system integrator, components supplier, equipment, materials and service suppliers.



COMPANY DESCRIPTIONS & BIOS



3photon team merges technical competencies and capabilities of key stages of optical component production, starting from optical glass and crystal polishing, continuing to coating process employing optimal coating technology and finalizing with precise characterization with particular emphasis on high precision and high-power optical products development. Long years of experience and expertise in optical thin film coatings, laser & non-linear crystals processing with products development for laser applications allow providing highest quality crystals, high damage threshold or complicate design optical components to our customers. www.3photon.com



Marius Šemeta (CEO) is the co-founder of 3photon with more than 20 years of experience in Laser Optics and Crystals components development. His working experience leads through a few largest Lithuanian Photonic Industry companies where he took various responsibilities as a manager for sales, new products development, and internal process improvement. Marius graduated from Vilnius University, Faculty of Physics, and holds an MSc in Laser Physics and Optical technologies. His deep knowledge of applications for crystals or optical components and technologies used in photonics allowed to start 3photon company in order to bring the best solutions for Laser Industry.



4K-MEMS conceptualizes and develops deep tech solutions for Industry. 4K-MEMS specializes in innovative Near Infrared Emitters for portable spectroscopy applications. www.4kmems.ch



ACM Coatings is the German subsidiary of Acktar Ltd. (Israel) and your production and distribution partner for Acktar products in Germany and Europe. Acktar Ltd. is the world leader in deep black, light absorbing coatings and materials. ACKTAR absorbing coatings and foils enhance the performance of an optical system, e.g. by reducing the signal-to-noise ratio and increasing the contrast. The coatings are completely inorganic, non-toxic and non-outgassing. ACKTAR coatings are applicable to a large number of substrates, have a high level of temperature stability (-269°C to +450°C) and are working in a wide spectral range (UV to IR). Applications for these deep black coatings are: Stray light absorption in optical systems, such as: portable devices, cameras for mobile phones, automotive applications, sensors and receivers, gauges, pyrometers, spectrometers as well as high-emissivity applications in the technical optics. We serve for example the industries aerospace, laser technology, technical optics, sensor technology, medical technology, biotechnology and industrial image processing. www.acktar.com



Alexander Telle (CEO) joined Acktar/ACM in 2015 and took responsibility for the business development in the European market, especially for industrial photonic customers and aerospace business. He had previously held director and senior management positions in several photonics companies. He started his career in 2005 as an R&D engineer at JENOPTIK. Alexander holds an engineering degree (Dipl.-Ing. (FH)) from Ernst-Abbe-University Jena.

COMPANY DESCRIPTIONS & BIOS



Aegiq (/ˈiːdʒɪk/, ee-jik) is building a new generation of networking and computing with quantum technology. The company is using its pioneering single-photon and integrated quantum optics platform to address the demand for next-gen fibre and satellite quantum communications, as well as drive further research and development in quantum computing and quantum optics using its advanced technology. www.aegiq.com



Maksym Sich (CEO and Co-founder) started as a quantum physicist. He is a serial entrepreneur with a focus on deep tech and with experience across different sectors including aerospace and hi-end manufacturing. Max holds a PhD in Physics from the University of Sheffield and a B.Sc. in Economics and Finance from LSE.



AeroDIODE is an ALPhANOV spin-off company specialised in optoelectronics solutions for semiconductor devices such as laser diodes or SOA (semiconductor optical amplifiers). AERODIODE offers, in particular, flexible optoelectronics solutions in the following 5 categories:

- Laser diode drivers: pulsed laser diode drivers, low noise laser diode driver, high speed laser diode driver, high power laser diode drivers
- Fiber-coupled Laser diode sources
- Fiber intensity modulators: fiber optic modulators and SOA pulsed drivers
- Synchronization electronics: pulse delay generator, pulse picker, digital delay generator
- Laser diode qualification test system and laser diode reliability test systems

AeroDIODE technology results from more than 12 years of innovation led by the founder team within the technological center ALPhANOV. www.aerodiode.com



Sebastien Ermeneux (CEO) is a laser physicist. After a PhD on laser materials, he started his career in the telecom domain in 2000. He then worked within the laser diode manufacturer Alcatel Optronics (now 3SP) where he took various responsibilities on several technical subjects from the AsGa front End wafer fab to the back end complex EDFAs with embedded electronics. In 2007, he was part of the founding team of the technological center ALPhANOV where he led a business unit of 25 engineers and PhDs. In 2019, he decided, together with his colleague Adèle Morisset, to create the Spin-Off company AeroDIODE based on key electronic technologies that he previously developed within ALPhANOV.

Altechna



Altechna is a Europe-based custom laser optics company with worldwide customers. The company employs 115+ talented minds and skilled professionals to develop complex technological solutions and custom-tailored designs for laser optics, accessories, optomechanical assemblies and subassemblies. The laser applications are aimed at the leading industrial, medical, semicon, automotive, security and sensing customers. Our in-depth knowledge on dielectric coatings and optical designs allows our industrial customers to reconsider their laser geometries and achieve even higher peak levels of power or reduce the weight of commercial products. From test batch to mass production, the quality and repeatability of each product are assured at our metrology laboratory. Customers choose Altechna for premium quality and our in-house know-how. So, if your challenge involves anything from femtosecond to continuous-wave technology, we are here to support you with our innovative solutions. www.altechna.com



Antanas Laurutis (CEO) is the CEO of Altechna since 2019. He features strong technical expertise and academic background in optics, optical coatings, lasers, and laser applications. Antanas holds a BSc of Physics and Management of Modern Technologies and MSc in Laser Technologies from Vilnius University, Lithuania. He joined the company in 2012 and built his skills and career through different positions in sales until he was assigned CSO in 2016 leading an ambitious sales team. Throughout the years he gained an extensive experience in complex technological solutions and outbound B2B sales. While being a key player at the company's top management team, Antanas significantly contributed to business development and implementation of the new strategy. His strong leadership and management led to outstanding sales results throughout the recent years.



Laurynas Satas (CTO) is taking responsibility for the company's technical strategy as Altechna CTO. He has strong technical expertise and an academic background in optics, optical coatings, lasers and laser applications. Laurynas holds a BSc in Physics and Management of Modern Technologies and an MSc in Laser Technologies from Vilnius University. Since 2014, Laurynas has focused on supporting key industrial customers as part of Altechna sales team by developing and providing new technological solutions. His strong track record in multiple product development projects has proved his technical expertise and leadership. He is highly motivated to turn things that seem "impossible" into a new product line.



AMO is a research service provider for nanofabrication with focused research & development, prototyping and contract manufacturing. AMO offers the entire infrastructure required for nanofabrication for semiconductor-based applications and related technologies. AMO competences are nanofabrication, nanoelectronics, nanophotonics and biotechnology. Within many technical fields the employment of nanotechnology is enabling crucial improvements in product properties: Microelectronics is migrating to nanoelectronics and is creating largest storage densities and processor power – in the long term up to quantum devices. Thanks to new nanomaterials and manufacturing methods, integrated optics is developing into nanophotonics with the prospect of fast "on chip" optical data processing and the reduction of manufacturing costs. Nanostructures can now be manufactured in the size of biomolecules, thereby opening the possibility of highly exact analytical methods and the coupling of electronics with the biological world. The key to enter the nanocosm is the production technology for smallest structures. www.amo.de

COMPANY DESCRIPTIONS & BIOS



Michael Hornung (Managing Director) started his work with AMO early 2014. Before he joined AMO, he was Technical Marketing Manager at SUSS MicroTec Lithography based in Garching, Germany. During his over 10-year career at SUSS MicroTec, he passed further functions. So, he was project manager in R&D responsible for the (nano) imprint technology and other new technologies for mask aligners. He also worked as application engineer for a while and leads the application group at SUSS MicroTec for two years. Formerly, he was project manager at CERN in Geneva, Switzerland, working at the inner detector for the ATLAS project. Michael Hornung holds a Ph.D. degree in Natural Science from the University of Freiburg, Germany and an MBA from the University of Applied Science of Ludwigsburg, Germany.



Amplitude develops and manufactures diode-pumped ultrafast lasers for scientific and industrial applications. Industrial applications include: Analytical chemistry, Lab-on-chip, Ophthalmology, Medical devices, Micro-machining, Internal engraving. Scientific applications include: Cellular imaging, Pump-probe, Nano-surgery, Analytical chemistry, Lab-on-chip, Free Electron Lasers. www.amplitude-laser.com



Eric Mottay (CEO and President) founded Amplitude in 2001 and which is now a leader in diode-pumped ultrafast lasers. Eric graduated from the Ecole Supérieure d'Optique, Orsay, in 1985, and has since specialized in laser development and manufacturing. During his career, he developed and brought to the market numerous solid-state lasers. Eric is the author of many scientific papers and holds several patents in the field.



AMS Technologies is a leading solution provider and distributor of high-tech, leading-edge components, systems and equipment, with almost 30 years of experience to date and currently serving more than 1000 European customers. Optical Technologies is our key competency field with the broadest and most widely varying product offering, ranging from optical components and systems for the most differing of applications, over cameras for machine vision and on to capital equipment for fiber optic applications. Coupled with our Thermal Management Engineering team focusing on Photonics cooling and temperature stabilization and our Power Technologies focus on Laser Drivers, TEC controllers and Power Supplies, we enable and create custom Photonics Solutions. www.amstechnologies.com



Jan Meise (CEO) joined AMS in 2010. He drives the company's sales expansion plans, organically and inorganically, which resulted in the company's acquisition of Sweden based Azpect Photonics in 2012 with the financial backing of AMS' shareholders. Prior to joining AMS Technologies, Jan lived and worked for 9 years in Silicon Valley, USA. In his last position at Finisar, he was responsible for new markets, driving business cases and reviewing potential acquisition targets. As part of a small technical entrepreneurial team, he also co-founded a boot strapped start up funded by Angel Investments. **Jan Meise is a member of the EPIC Board of Directors.**



art photonics was launched in Berlin in September 1998 to develop and produce specialty fiber products for a broad spectral range from 200nm to 16µm. Various fiber cables, bundles and spectroscopy probes are produced with unique parameters for different applications: from high laser power delivery in technology & medicine to process-spectroscopy and medical diagnostics. www.artphotonics.de



Viacheslav Artyushenko (President & CEO) was born in Russia. His PhD in physics was done at General Physics Institute, Moscow in 1981 - focused on his pioneering development of polycrystalline fibers for Mid IR-range: 3-18µm. His multiple publications and patents were devoted to fiber optic technologies and applications in laser medicine, process-spectroscopy, optical sensing and diagnostic. In 1998, he founded art photonics GmbH in Berlin – one of worldwide leaders now in the production of specialty fiber products for a broad spectra 0.2-16µm. Dr. V. Artyushenko and art photonics are members of EPIC, CFACT, IBiolC, SPIE, OSA, SAS, SPECTARIS, Optec-BB, Photonics-BB, GDCh-DECHEMA & CLIRSPEC.



Astrum LT, founded in 2017 and based in Lithuania, and Czech Republic, is an international supplier of high-power OEM laser systems and components for industrial and medical applications. Astrum LT focuses on the semiconductor technology as an efficient, most advanced and reliable source of innovation implementing both EEL and VCSEL technologies. The company has grown through extensive academic and industrial partnerships offering customized but competitively priced solutions for a wide variety of OEM laser solutions for pumping, amplification, seeding and laser driving for aesthetic, surgery, and electronic industry. The product range includes laser amplifiers, laser heads, optical modules, laser diode drivers to be soon extended with laser components for 3D sensing, ToF, LiDAR and gas sensing. A new 6,000m² laser chip epi and fabrication foundry in the vicinity of Prague, Czech Republic is scheduled to be up and running in 2022. www.astrum-lasers.com



Sergei Tsarev (CEO) is the founder of Astrum LT UAB, Lithuania. Sergei possesses strong experience in international business development in industrial and laser applications. His solid project management and liaison skills elevated by an outstanding engineering team of Astrum LT allowed to build a successful laser product portfolio in demand by leading system integrators worldwide. Customers include Israel, South Korea, US and EU-based energy device manufacturers.



AUCCEPT Consulting is offering AUthentic Coaching and Consulting on Entrepreneurship and Photonics Technologies. AUCCEPT's CEO Andreas Umbach has more than 20 years' experience as founder and CEO of a technology start-up in a global industry. He has been responsible for the active and passive side of international mergers and acquisitions. Andreas actively directed the company's direction in the field of photonic integrated circuits. Now, he is aiming to consult on photonics technologies using his extensive network in this global industry. He is pleased to coach entrepreneurs and give advice on strategic business decisions throughout the lifecycle of the company. Support of the management team and leadership training are offered by direct coaching mandates or in the form of board positions. www.auccept.com

COMPANY DESCRIPTIONS & BIOS



Andreas Umbach (CEO) holds a Dipl. Phys. degree from Technical University Berlin. In 1989, he joined the Fraunhofer Heinrich-Hertz-Institut where he worked on the development of Indium-Phosphide based optoelectronic integrates circuits comprising High Electron Mobility Transistors (HEMTs) and high-speed waveguide-integrated photodiodes. In 1998, he and two colleagues founded the company u²t Photonics AG as a spin-off from HHI, which became a leading supplier for ultrafast devices for optical fiber communications. As CEO, he led the acquisitions of LKF Advanced Optics GmbH, u²t Photonics UK from rfmd and COGO GmbH. In January 2014, he sold u²t Photonics AG to Finisar Corp. and served as a Vice President, General Manger and CTO of Finisar Germany GmbH.

Andreas also served as member of the technical programme committee of the International Conference on Optical Fiber Communication (OFC) and of the IEEE Microwave Photonics Conference (MWP) and the European Conference on Optical Communications (ECOC).



B2Science is a consulting and full-service provider for business development and marketing projects. Customers are from the scientific instrumentation industry, mainly photonics. The company is based in Berlin, Germany. 20 years of industry experience enable B2Science and its clients to working together at eye level. B2Science's project activities include: Developing and implementing growth strategies, creating and improving brand awareness in target markets, beating the competition by making sure that products are highly visible and their USPs are readily understandable, sales transformation through digital technologies, developing web applications and websites to improve the customer buying experience. www.b2science.de



Thomas Neicke (CEO) is the founder of B2Science and an expert in business development, sales, and marketing. His team and he provide services to selected premium scientific companies and support these companies, their management teams and employees in the design and implementation of business development projects. Thomas holds an MBA as well as an engineering degree in physics technologies. In 2022, Thomas has been appointed as ambassador for the ultrafast laser measurement company Femto Easy in Germany.



Bay Photonics provides a packaging service to Photonic and Microelectronic device developers and chip designers. We can help you bring your optoelectronic and PIC designs to a successful product market launch with our often-innovative packaging solutions. Drawing on our vast experience within datacoms, sensors, space and quantum sectors, we will help you design for Manufacture (DFM) and meet other essential requirements such as cost, time to market, performance etc. (DFX). Located at the EPIC centre in Paignton, England, and drawing on the unique history of the area and the Torbay Hi Tech Cluster (<https://epic-centre.co.uk/torbay-hi-tech-cluster/>). Our packaging capabilities include epoxy and eutectic die bonding auto gold and Aluminium ball and wedge wirebonding, optical alignment and hermetic sealing. www.bayphotonics.com



Glenn George (Co-Founder and Managing Director) has over 37 years' experience in the Photonics packaging industry, starting with the STC in 1982, and then the Nortel "Centre of manufacturing Excellence" in Paignton. Glenn was responsible for managing the packaging challenges to meet the explosive growth of the dot com bubble era at the turn of the century where he managed a team of 30 engineering and technical staff to deliver unprecedented productivity/cost/performance and volume improvements. Following Bookhams' transfer of production to China, Glenn formed Bay Photonics in 2007 and has overseen the growth of the company and its capabilities within the PIC, Sensing & Quantum and other specialized optical packaging industries.



bmbg consult is an International Management Consultant with a long experience in semiconductor industry R&D, photonics, mask making, EUV ecosystems and infrastructure, product management, product strategy, business development with 30 years of management in different industries from group to division level, management of national and international funding projects, implementation and assessment of excellence systems. The main focus in recent years is on market access for high tech products. www.bmbg-consult.de



Jan Hendrik Peters (Owner) has a background in physics and business administration. He holds degrees in physics from the University of Washington, Seattle (M.S.) and University of Hamburg, Germany (PhD) and an MBA from the Nordakademie in Elmshorn, Germany, in International Management, International Marketing and Business Communication. Based on his management experience in the academic world (particle physics lab DESY) and the semiconductor business sector (AMTC and Carl Zeiss SMT), he started his management consultancy firm in 2017 to support SMEs in strategy development and balanced business management. He is an EFQM advisor, trainer, and assessor, helping companies to develop themselves. His work as an excellence assessor allows him to acquire a deep insight into management methods from organizations all over Europe, from Mexico, through the Near East and China which he transfers to the realm of small and medium enterprises.



Cailabs was established in 2013 in Rennes and is a French deep-tech company which designs, manufactures and sells photonic solutions. By combining our state-of-the-art beam shaping technology (Multi-Plane Light Conversion or MPLC) with optimal engineering, we create innovative products that help solve some of today's major industrial and technological challenges for multiple applications, including: laser machining processes, aerospace, ground-based telecommunications, defense. www.cailabs.com



Jean-Francois Morizur (CEO) is co-founder and CEO of Cailabs. He invented the Multi-Plane Light Conversion Technology at the core of Cailabs' solutions. Before founding Cailabs, Jean-Francois was Senior Associate at the Boston Consulting Group. Jean-Francois holds a PhD in quantum optics from the Universite Pierre et Marie Curie and the Australian National University. He received the Forbes' 30 under 30 Science and Healthcare European award in 2016.

COMPANY DESCRIPTIONS & BIOS



The Center for Physical Sciences and Technology (CPST) is the largest state research institute in Lithuania with approximately 700 employees, including 330 PhD and 110 PhD students, and 19 departments, working in different fields of physics, chemistry and technology. The Department of Laser Technologies covers nano-photonics, laser science and applications, including modelling of nano-photon structures, new design of fiber and solid-state based lasers, their application in the precise material processing and optical classical and quantum communications. The Department of Optoelectronics is world-known on its activities in terahertz generation and imaging. Its facilities include equipment for MBE growth of dilute bismide layers for infrared light emitters and photo-detectors. Various ultrafast spectroscopy methods are widely used in the Department of Molecular Compounds Physics for studies of excitation dynamics in molecular compounds seeking the control operational abilities of molecular optoelectronic devices. www.ftmc.lt



Gediminas Račiukaitis (Head of Department of Laser Technologies) graduated from Vilnius University, Faculty of Physics in 1978 and got his PhD degree in 1985 in the field of non-linear laser spectroscopy. Since 1995, he is with the Ekspla and currently holds a position as a consultant on laser technologies. Since May 2021, he is the President of the Lithuanian Laser Association. His activity related to the application of lasers in the industry was moved to the Institute of Physics in 2004. Since February 2011, the laboratory was converted to the Department of Laser Technologies with nearly 100 employees now. His research areas include the development of new laser sources, applications of laser in material micro-processing with ultra-short pulse lasers and photonics and implementation of laser

technologies in the industry. 2013-2017, he was coordinating the European FP7 project APPOLO on assessment of laser-based equipment with 36 partners across Europe and is involved in the implementation of H2020 projects Pulsate, PhotonHUB Europe, Multiscan 3D and i.FAST.



Gintaras Valušis (Director) graduated from the Vilnius University, Physics Faculty, in 1985. He acquired his PhD and habilitation at the Vilnius University in 1992 and 2007, respectively. 1995 – 1996 he obtained post-doc in ultrafast spectroscopy of semiconductor nanostructures at Institute of Applied Photo Physics, Dresden University of Technology, Germany. In 2000 and 2003 he was Alexander von Humboldt fellow in topic of terahertz physics at Physics Institute, J. W. Goethe University, (Frankfurt/M, Germany). Currently, Gintaras withholds positions of director at the Center for Physical Science and Technology (FTMC), Vilnius, Lithuania, head of the Optoelectronics Department at FTMC, and professor in

Institute of Photonics and Nanotechnology of Physics Faculty at the Vilnius University. His scientific interests include terahertz physics and spectroscopy, optoelectronics and physics of semiconductor devices.



Karolis Stašys (Innovation and Project Manager) graduated from Vilnius University, Faculty of Physics in 2014 and currently studying as PhD student in the field of Optoelectronics and material science. Since 2010 he is working in deep technology development field as a researcher and had experience working with such industrial partners as Thermo Fisher Scientific, Institute of Oncology and Ruptela. Since June 2018 holds the position of innovation and project manager at FTMC (CPST) and is responsible for technology transfer, business development and supervision of contractual RnD activities. Main fields of expertise are

optoelectronics, integrated electronics, new material development, photonics and nano chemistry. He is also currently responsible for control of licencing process, spin-off companies incubation and developing partnership with industry by creating new business opportunities in aerospace, medicine and military fields.



Paulius Gečys (Chief Researcher and Head of Laser Micro-processing Technology Laboratory) is Chief Researcher and Head of Laboratory of Laser Microfabrication Technologies at Department of Laser Technology (DLT) in Center for Physical Science and Technology (FTMC). He started his scientific career in 2006 as an engineer at FTMC department of laser technologies, being a student at Vilnius University. In 2008, he graduated from master studies at the Vilnius University. In 2012, he defended PhD at FTMC/Vilnius University in the field of laser scribing of thin-film solar cells. He is a co-author of 74 scientific papers. He has participated in 14 scientific and industry projects including European FP7 project APPOLO on assessment of laser-based equipment with 36 partners across Europe and is involved in the implementation of H2020 projects Pulsate. During the years of work in dep. of laser technologies Paulius Gečys gained a lot of experience in laser processing field, scientific data dissemination, development of opto-mechanical systems for laser processing. During the last years, experience was also gained in the project management field as well.



Chilas develops and commercializes ultra-narrow linewidth tunable external cavity lasers. The lasers are used in a wide range of applications, such as coherent optical communication, fiber sensing, Lidar and microwave photonics. The concept uses state-of-the-art Photonic Integrated Circuit (PIC) technology and has distinctive advantages of which the most important are:

- Ultra narrow linewidth
- Very wide tuning range
- Small footprint/size

www.chilasbv.com



Sami Musa (CEO) obtained a PhD in integrated optics from Twente University in the Netherlands in 2003. Following his graduation, he took several research positions in academic and industrial institutions including Technical Universities of Delft and Eindhoven in the Netherland, University of Limerick in Ireland and ASML. Dr. Musa has 18 US and International patents and co-authored more than 30 scientific papers.



Civan Lasers - Next-generation Laser Technology for Industrial Manufacturing. Civan's Dynamic Beam Laser allows manufacturers to quickly tailor the welding process to the application. With the ability to control beam shape, beam sequence, shape frequency, and focal depth at MHz speeds without any moving parts. Civan's disruptive DBL technology facilitates rapid process optimization, eliminating unwanted joining defects such as pores, cracks, and humping. Civan's lasers not only improve joint quality but also offer increased power, increased feed rates, and more efficient production of new, complex, products made of dissimilar materials. Civan's Dynamic Beam Lasers are based on Coherent Beam Combining technology. www.civanlasers.com

COMPANY DESCRIPTIONS & BIOS



Elkana Ben-Sinai (COO and Deputy CEO) is the COO and Deputy CEO at Civan Advanced Technologies. Civan specializes in developing and manufacturing of high-performance, highpower Single Mode Fiber Lasers for a variety of industrial applications. At this capacity, Elkana is responsible for Civan's Marketing and Sales, Business Development and Project Management. Prior to joining Civan, Elkana Ben-Sinai was Vice President at Intel Corporation and General Manager of the Wireless Connectivity group, a global organization chartered with defining, designing and delivering wireless connectivity products and technologies, spanning Wi-Fi, Bluetooth, global navigation satellite system (GNSS) and location, FM and wireless gigabit (WiGig), reaching annual sales of \$600M. Prior to that, he has founded Intel's global navigation satellite system (GNSS) group which was chartered to deliver GNSS and Indoor Location solutions across all Intel's platforms. Before joining Intel, Ben-Sinai was CEO of Comsys Mobile, an Israeli start-up specializing in integrated digital baseband solutions for LTE, WiMAX, UMTS, EDGE, GPRS and GSM development, which was acquired by Intel in 2010, and previously CEO of Novanet Semiconductors, developing silicon solutions for optical networks communication acquired by Conexant Systems in 2000. Prior to Novanet, Ben-Sinai held management and technical positions at Orkit Communications and Motorola Semiconductors. Ben-Sinai holds a bachelor's degree in electrical engineering from the Technion Israel Institute of Technology and an MBA from Tel Aviv University's Recanati Business School.



Cycle is a young high-tech company that manufactures world-leading femtosecond precision systems based on ultra-short pulse lasers. The DESY spin-off company was founded in 2015 by renowned researcher Prof. Franz X. Kärtner. For customers in science and industry, Cycle manufactures unique products that enable new applications in biology, material analysis and precision metrology. Its femtosecond precision timing and frequency systems are used in research facilities around the world such as X-ray free electron lasers, high intensity laser facilities and ultrafast laser laboratories. As an official contractor of ESA, Cycle supplies the next generation of time and frequency distribution systems for DeepSpace ground stations. In addition, Cycle is in the process of rolling out its next product platform, which is a multi-wavelength femtosecond laser system for multi-modal multi-photon microscopy. www.cyclelasers.com



DELO is a leading manufacturer of high-tech adhesives and other multifunctional materials as well as the corresponding dispensing and curing equipment. The company's products are mainly used in the automotive, consumer, and industrial electronics industries. They can be found in almost every mobile phone and every second car worldwide, for example in cameras, loudspeakers, electric motors, or sensors. Customers include Bosch, Daimler, Huawei, Osram, Siemens, and Sony. DELO's headquarters are in Windach near Munich, with subsidiaries in China, Japan, Malaysia, Singapore, and the USA as well as representative offices and distributors in numerous other countries. The company has 820 employees and achieved a turnover of 167 million euros in last the financial year. www.delo.de



Stephan Prinz (Product Manager) is the responsible product manager for high-performance optical polymers at DELO Industrial Adhesives. He obtained his M.Sc. in optics and photonics from Karlsruhe Institute of Technology and his Ph.D. in physics from Technical University of Munich. For seven years he developed cutting-edge ultra-short pulsed laser systems at TRUMPF for scientific applications like attosecond metrology or multiphoton spectroscopy. Stephan joined DELO in 2020 where he is now in charge of the company's strategic development in the field of micro- and nano-optical applications.

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Dispelix is a waveguide designer and manufacturer that delivers visionary augmented and mixed reality see-through displays for consumer and enterprise solutions. Its patented DPX waveguides unlock new freedoms in AR product design with unmatched image quality, performance, and efficiency. Led by the world's most sought-after experts in optics, photonics, and manufacturing, Dispelix powers AR experiences that push boundaries. Dispelix is headquartered in Finland, with offices in US, China, and Taiwan. www.dispelix.com



Jussi Rahomäki (Chief Product Officer) of Dispelix Oy, a company focused on see-through displays for augmented reality. Dr. Rahomäki is an experienced professional in diffractive and nanoscale optics, pursuing technology and business initiatives at the forefront of augmented reality industry. He has built his strong expertise in augmented reality industry and nanoscale optics technologies at various business and academic positions over his career. Dr. Rahomäki received his MSc. and PhD. in physics from the University of Eastern Finland, and his executive MBA degree from Henley Business School. In his free time, Dr. Rahomäki is an avid mountain climber and paraglider.

DMC Direct
Machining
Control

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Direct Machining Control creates software "DMC" that controls laser machines. Applications range from laser micromachining like laser etching, drilling, engraving to laser additive manufacturing (SLS, SLM, SLA, 2PP) and even 5-axis machining. DMC is a fusion between CAD/CAM and machine control software focused specifically on laser applications. It combines motion trajectory generation based on 2D or 3D CAD models and controlling a wide range of hardware (positioning stages, galvo scanners, lasers, cameras, various sensors) to perform laser machining with user defined parameters. Direct Machining Control works together with variety of motion control companies, big and small system integrators and laser micromachining R&D centers to provide laser system users an intuitive and efficient way to control their laser machines. www.directmachining.com



Sarunas Vaškėlis (CEO) has joined DMC in 2019 and since then is taking care of business development and company growth. He has a strong technical background in physics and software engineering and years of experience in management and business development in the photonics industry. Before joining DMC, he was a senior sales engineer working with various photonics-related projects. Prior to that, he had multiple research positions including at Hitachi in Japan. He has a BSc in physics and MSc in biophysics from Vilnius University.

COMPANY DESCRIPTIONS & BIOS



EKSMA Optics is a manufacturer and supplier of precision optical components used in high-power lasers, laser systems, and other photonic instruments. The product range includes laser optics for high power laser applications, optical systems, Pockels cells and their High Voltage drivers, ultrafast pulse picking systems, laser media & nonlinear crystals, laser diode drivers. EKSMA Optics owns cleanroom facilities for optical and electro-optical systems assembling, department of dielectric coatings deposition using IBS technology and department for spherical and aspherical lens manufacturing with CNC machines. The Company is active in industrial, scientific, medical and defense markets. www.eksmaoptics.com



Dainius Tumosa (CEO) holds an MSc in applied physics from Vilnius University and an MBA from Vilnius University. Dainius started his career as a laser engineer for the company Ekspla. In 2008, he moved to the position of Director R&D in Eksma Optics and he has been the CEO of Eksma Optics since 2013. Dainius has more than 15 years of experience in dealing with projects related to electro-optical and nonlinear crystals, production and testing of high damage threshold coatings and precision optical components. He is a board member of Lithuanian Laser Association, Laser & Engineering Technologies Cluster (LITEC).



EKSPLA - Innovative manufacturer of solid state and fiber lasers, systems and components from custom system to small OEM series. In-house R&D team and more than 25 years' experience ensures operative design, manufacturing and customization of the new products. For OEM customers who need reliable lasers equipment delivered on time Ekspla provide optimized/tailored solutions for specific requirements that enables to make customers' product unique. Unlike of the shelf manufacturers, EKSPLA provide close partnership, collaboration and our commitment that will help to create value to your customers. www.ekspla.com



Kestutis Jasiunas (CEO) is one of the founders and the present chief executive of Ekspla. Having graduated from Vilnius University in 1982, he started his working career as a research fellow at the Institute of Physics in Vilnius. With years passing, his activities gradually and consistently shifted from hands-on laser science towards laser design and commercialization and towards strategic management later.



Aldas Juronis (Chief Production Officer) has more than 25 years of experience in sales and business management. He joined EKSPLA three years ago as Head of OEM Lasers program and took the lead of product and business development of industrial and OEM lasers. Business from OEM Lasers has grown significantly since thus contributing to even faster growth of EKSPLA. He also initiated development and later launched to the market an innovative industrial femtosecond laser FemtoLux30. Starting from January 2022 Aldas took responsibility for production management.



ELAS is a laser machine integrator building flexible and easy to use tools for laser micromachining. We are working on applications for electronics, semiconductor, photovoltaics industries and precise laser processing of hard materials (various ceramics, PCD, etc.). The company was founded in 2010 as a spin-off company of Center for Physical Sciences and Technologies (FTMC) in Vilnius. Our extensive knowledge of ultrafast laser micromachining, in-house application lab and cooperation with local ecosystem, enables us to develop laser processes for custom applications.
www.e-lasers.com



Tadas Kildušis (President) is working in laser micromachining industry for more than ten years. After co-founding and leading Direct Machining Control for 7 years, he has recently transferred to Elas to work on new laser micromachining technologies for electronics and semiconductor markets.

Electro Optics

Electro Optics is the leading resource for engineers involved in photonics business, technology and applications. Registered readers will have access to news of the latest technological developments, trends and opinions in the photonics industry as well as independent, in-depth editorial content. Electro Optics provides uncompromised, informed commentary and analysis on topics of interest to anyone involved in the photonics industry. Published ten times per year, Electro Optics is available worldwide in print (free for qualified readers) or digital (free to all) formats.
www.electrooptics.com



Matthew Dale (Editor) joined Europa Science as a technical writer in May 2016. He writes across all three photonics titles, Electro Optics, Laser Systems Europe, and Imaging and Machine Vision Europe. Matthew has a diploma from the University of Birmingham in physics.



EPIC is the European industry association that promotes the sustainable development of organisations working in the field of photonics. Our members encompass the entire value chain from LED lighting, PV solar energy, Silicon photonics, Optical components, Lasers, Sensors, Displays, Projectors, Optical fibres, and other photonics-related technologies. We foster a vibrant photonics ecosystem by maintaining a strong network and acting as a catalyst and facilitator for technological and commercial advancement. EPIC works closely with related industries, universities, and public authorities to build a more competitive photonics industrial sector, capable of both economic and technological growth in a highly competitive world-wide marketplace.
www.epic-assoc.com

COMPANY DESCRIPTIONS & BIOS



Anna Trachtova (Marketing Manager) has studied at the University of Economics in Prague and has been working in B2B marketing for more than ten years. She started her career in companies such as PricewaterhouseCoopers and ManpowerGroup. Before joining EPIC, she had worked as a marketing manager in one of the biggest law firms on the Czech market, where she was responsible for the whole marketing department. She has vast experience and knowledge in digital marketing, organizing events and project management with focus on marketing activities.



Antonio Raspa (Senior Photonics Program Manager) has more than 35 years of experience with solid-state laser design, spectroscopic systems, photonics components and fiber optics. He holds a MSc degree in Electrical Engineering with a specialization in Quantum Electronics. Before joining EPIC, he worked at Quanta System as R&D manager for the development of solid-state laser sources and custom photonics systems for industrial and scientific applications. During this period, he participated, as Ozone LiDAR specialist, in the Italian research program in Antarctica. He has also worked at Trumpf and Rofin-Sinar as a Product Manager for industrial laser products and processes.



Auri Ripoll (Marketing Manager) received a bachelor's degree in Biology from the University of Barcelona and a Master's in Marketing Management from EAE Business School. She started her career as a scientific professional working for over nine years in several companies. She has worked as a marketing manager in a chemical company where she was responsible for the marketing strategy, including branding and digital marketing actions, where she developed online advertisement and social networks campaigns. Auri has also organised the participation of companies in international exhibitions.



Carlos Lee (Director General) brings with him a background in microelectronics which was acquired through several management positions held at the international association SEMI. He has been responsible in Europe for the SEMI International Standards program, managed technical and executive programs, and together with the advisory board advocated for a more competitive semiconductor and photovoltaic manufacturing industry. Carlos has a BBA in Finance and an MBA in Leadership & Change Management from United Business Institutes. He lives with his spouse and three children in Belgium.



Elisenda Lara (Marketing Manager) studied Media and Communication at Universitat Autònoma de Barcelona and has been working in content marketing for more than ten years. She started her career in audio-visual media working as a cultural reporter, then jumped into the e-commerce sector, and before joining EPIC she has contributed to the dissemination of photonics through an association of the sector.



Francesca Moglia (Photonics Technologies Program Manager) has a background in crystal growth, spectroscopy, optics and laser development for research and large research facilities. Before joining EPIC, she moved from R&D to scientific management for the coordination of a consortium of funding agencies in the field of astroparticle physics. She graduated in Physics from the University of Pisa in Italy, acquired her PhD (Dr. Rer. Nat.) at the Universitaet Hamburg in the field of Laser Physics and pursued her post-doctoral activities at DESY, Deutsches Elektronen-Synchrotron in Hamburg, Germany.



Helena Jelinkova (Events Manager) studied Business Administration and Management at Thomas Bata University in Zlin, Czech Republic. Her passion for traveling brought her into the hospitality and tourism industry. She worked for several international hotel brands in Prague at various positions both in the operations and sales departments. She dedicated most of her professional life to events. Projects she worked on range from corporate conferences and meetings to sport tournaments or weddings. In June 2019, she joined the EPIC team as Events Manager.



Ivan Nikitski (Photonics Technologies Program Manager) has a PhD in Photonics. He has a strong technical profile built by his experience in both academia and industry of new materials, optoelectronics and semiconducting. During the last 10 years, he grew professionally in the technical environment of photonic technologies and complemented it with important experience in microelectronic production. Ivan has developed projects covering a wide range of applications, such as detectors and wearables, image sensors and integrated photonics, high-speed and high-power electronics, thin-film materials and in-line metrology. He has developed various processes for wafer-scale material production and characterization, wafer-level device testing, innovative device concepts and demonstrators.



Jeremy Picot-Clemente (Photonics Technologies Program Manager) is a physicist specializing in optics. After a PhD in Physics/optics and an MBA in Dijon (France), he decided to explore the photonics industry for several years by managing photonics systems integration for various applications and in different companies. At EPIC, Jeremy oversees the development of the optics and micro-optics fields, and all related technologies and applications. He has a strong interest in new technologies involving photonics, such as AR/VR, LiDAR, 3D sensing, and imaging devices.



Neringa Noreikienė (Events Manager) is conferences and events professional with interest and experience in HR, marketing, and sales. Her previous background includes extensive experience in talent acquisition, events & PCO (professional conferences organizer) companies where she was responsible for team management. She has organized numerous international events from 50 up to 2000 people, in Europe and USA. Neringa graduated in business information management as BA (2012, Lithuania), human resources management as MA (2015, Lithuania) and was studying international events management during her exchange semester (2010, the Netherlands).



Panagiotis Vergyris (Photonics Technologies Program Manager) has a background in quantum integrated photonics, optics and lasers, single-photon sources & detection schemes, atomic clocks, laser stabilization systems, Brillouin and Confocal Microscopy. Before joining EPIC, he moved from academia into industry working as R&D engineer for BAW and SAW filters in Qualcomm and as Optical Technology Consultant for Leonardo. Now, he works mainly on innovations in agri-photonics and the quantum photonics industry. He graduated in Applied Mathematics and Physics from the National Technical University of Athens and he acquired his PhD at the University Cote d'Azur in the field of Quantum entanglement based technologies.



Tracey Vanik (Head of Photonics Market Research) has been a Chief Technologist and held VP positions for both Technical Product Marketing and Product Development & Management. Vanik's product development background has included integration of complex hardware systems, software, and OEM products into cohesively functioning networked systems. Her technical background includes Biomedical Engineering specializing in cardiology and imaging applications, emerging network architectures including

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Telecommunications, Carrier Core Networks, Optical Switch Networks, SDN, and software routing & processing. She was an early advocate of InP for high speed communications (10GigE) and has additional background in Processors, & III-V Materials. Vanik's expertise extends to Industrial Control System Architectures (ICS & SCADA) for manufacturing, and Cyber Security for critical applications & architectures. Most recently, she has focused on 5G Networks, Network Timing, Automotive Communication, Industrie 4.0 requirements and the role of photonics in each.



Ulrike Helfferich (Chief Operating Officer) has a Diploma in Engineering Physics and a deep knowledge of the photonic market after more than 20 years of working at international companies in the sector. Ulrike has extensive sales and business development experience with wide knowledge in optics, photonics, semiconductor, and machine-building market, based on business relationships to large scale and medium-sized businesses. Ulrike worked among others with applications related to spectroscopy, distance sensors, optical measurement, and image sensors. Her broad experience includes among others creating new business cooperation and especially in the past years a structured approach in different leadership roles.



Benno Oderkerk (CEO) has a background in electronics and medical technology. He studied at the University of Twente, Netherlands and did his master's thesis at Technion, Israel Institute of Technology in Haifa in 1988. Since then, he worked for 5 years in a small sensor company in Munich and, in 1994, he started Avantes, a spectroscopy company. In the following 26 years Benno lead the company as CEO to a successful worldwide leader in spectroscopy. In 2018, Benno sold Avantes to Nynomic and in 2020 he resigned as CEO. Since then he is in the board of a few photonics companies as well as in the supervisory Board of Photon Delta and Chairman of Photonics NL. **Benno Oderkerk is President of the EPIC Board of Directors.**



Thomas Pearsall (Founder) is a pioneer of photonic components for optical fibre communications. While at Bell Laboratories, he demonstrated the first synthesis of InGaAs single-crystal films and the first InGaAs infrared photodiode and quantum well laser for the transmission of 1500-nm optical signals. He is a fellow of the IEEE and the American Physical Society. In 2003, he founded EPIC as a positive response to the implosion of the optical fibre communications sector with the aim of creating and exploiting synergies between optical communications components and other photonics application areas like lighting, imaging, sensors and fibre-laser processing. EPIC has since grown to become a leading international photonics industry association.



EssentOptics design and manufacture spectrophotometers for coaters of flats and lenses. The company is strategically focused to provide tailored solutions for UV-VIS-MWIR measurement of optical coatings – transmission and absolute reflection at variable angles and polarizations, fully unattended. During the last years we have gradually expanded our wavelength range and became now the only company on the world market offering unsurpassed 185-5200 nm measurement capability in a single spectrophotometer. The use of our instruments directly addresses the need of sophisticated, broadband and knowledge-intensive thin film measurements. Our technologies empower our customers worldwide to design and produce better coatings with confirmed performance from UV to MWIR, enabling them to advance their researches in space exploration, lasers, biology, night vision, AR/VR and everywhere where optical coatings play a vital role as an inherent part of the photonics products. Currently, we are regarded as one the most competent providers of thin film optical metrology solutions on the market. www.essentoptics.com

The European Investment Bank (EIB) is the lending arm of the European Union. It is the largest multilateral financial institution in the world and one of the largest providers of climate finance. The EIB works closely with other EU institutions to foster European integration, promote the development of the EU and support EU policies in over 160 countries around the world. It has identified the following as priority areas: climate and environment, development, innovation and skills, small and medium-sized businesses, infrastructure and cohesion. The EIB provides lending, blending and advisory services to support viable investment projects. www.eib.org



Brendan McDonagh (Senior Adviser) is a Senior Adviser at the EIB's Advisory Services Department. Brendan manages a range of assignments in the innovation, digitalisation and transport areas. Brendan joined EIB in 2016 and worked in Western Europe Operations Division and in the Innovation Finance Division before taking up his current post in 2019. Prior to joining EIB Brendan held senior management positions in the Irish Development Agency - IDA Ireland. He holds a Degree in Mathematics and Economics and a Master's in Business Administration.



Maria Lundqvist (Finance Advisor) is Finance Advisor at the Innovation Finance Advisory team at the European Investment Bank. Her area of expertise is within innovation, the digital economy and emerging disruptive technologies, with a particular focus on deep tech, AI, blockchain, quantum technologies as well as cybersecurity, photonics and space.

Maria joined the EIB in 2015 as an Economist at the Bank's Economics Department, focusing on innovation policy and strategy. 2016-2020 she worked as an Economist at the EIB's technical department, analysing and assessing innovative investment projects within technologically advanced sectors before taking up her current role in 2021. Prior to joining the EIB, Maria worked as a Business Analyst in Switzerland. Maria holds a Master degree in Economics from Lund University, Sweden. Outside of work, she loves the mountains and outdoor activities, sports in general, cross-country skiing and bikram yoga in particular. Travels and adventures are a big part of her life.



FBGS, founded in 2005, is a Germany and Belgium based developer and manufacturer of tailored fiber optic sensing components and solutions combining both fiber optic sensors and interrogation technology. Their unique manufacturing technologies enable products suitable for both standard and bespoke applications in temperature, shape, strain, force and pressure sensing. Key players in industries such as process industry, energy, civil engineering or medical rely on FBGS to enable advanced monitoring in harsh or demanding environments where no other sensing methods can be implemented. Their strong application know-how has led FBGS to become an innovation driver, empowering their customers especially in medical catheter applications and steel casting monitoring. FBGS look toward a bright future based on steady and healthy growth. www.fbgs.com



Eric Lindner (CEO) holds a PhD in Physics from the Friedrich Schiller University in Jena. During his research in fiber optics, he worked on special types of FBGs for many different application fields. He joined FBGS as a project engineer in 2008. In 2012 he became responsible for the development and production of DTG@s. He became CEO in 2015, driving since then the development of the company. Eric is co-author of 5+ patents and 40+ scientific publications.

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Femtika is a spin off company from the Laser Research Center (Vilnius University). A team of precision micro processing experts founded the company in 2013. FEMTIKA is a microfabrication company that specializes in hybrid femtosecond laser microfabrication. We offer research, small scale manufacturing services and we build advanced Laser Nanofactory workstations. Hybrid micro-fabrication allows manufacturing using additive and subtractive approach. Our workstations are equipped with amplified femtosecond lasers and are applicable for various process: multiphoton polymerization, selective ablation, selective glass etching, welding, hidden marking, refractive index modification, surface reshaping or modifications of its properties (color, wettability, wearing, roughness). Femtika is targeting the growing worldwide demand for custom design components in micro- and sub-micro scale. Microstructures provided by Femtika are used in development of future products in semiconductors, photonics, medical, automotive and space industries. www.femtika.com



Titas Gertus (CEO) is a new leader for FEMTIKA. Titas has been interested in femtosecond laser micromachining for more than 15 years. He has a PhD degree from Vilnius University in material engineering. Titas is looking only forward to see challenges market will bring for hybrid manufacturing.



Femto Easy is a company specialized in ultrafast metrology. We have a strong expertise in the production and characterization of high energy ultrashort pulses. We provide robust and reliable measurement devices for ultrafast lasers, already used in some state-of-the-art laboratories. Our current product-line includes all the useful instruments to characterize and manage ultrafast lasers. We provide innovative devices for temporal measurement (ROC, FROG and BOAR), spectral measurements (MISS spectrometer) and spatial measurements (BeamPro). They are suitable for a broad wavelength range (from UV to mid-IR) and a large pulse duration range, from 5 fs to 80 ps. Beside their intrinsic technical performances, our products are very easy to use, compact, portable and versatile, which make them the ideal tools for customer services. The products are associated with a high-quality and user-friendly software which contributes to make them easy and pleasant to use. We also make custom products upon request and we provide our expertise on ultrafast metrology. www.femtoeasy.eu



Antoine Dubrouil (CEO) is a laser physicist specialized in ultrafast laser and attosecond science. He received his PhD from the University of Bordeaux in 2011. During his PhD at CELIA laboratory, he developed the first Terawatt sub-10 fs laser source and used those high intensity pulses to generate intense attosecond pulses. He acquired during his PhD a strong expertise in the production and characterization of femtosecond and attosecond pulses. After his PhD, he went to Australia for a post doc position in Swinburne University in Melbourne. As a laser technology expert, he was in charge of upgrading their laboratory infrastructure to the latest laser technology. His next stint was in Milan, Italy where he spent his time in fundamental research with the Politecnico di Milano, one of the world's best laser research institute. After this period in Milan, he decided to come back to Bordeaux at CELIA in 2014 with the motivation to create a company related to laser technology. After one year and a half of maturation, the project finally resulted in the creation of Femto Easy. Antoine founded the company in February 2016 with an associate Stephane Lecorné who is a talented software developer. After six years of existence, by getting the full confidence of its customers, the company is doing well and its future is looking bright.



FEMTOprint, founded in 2013 in Muzzano (Switzerland), is a pioneer and market leader in high-precision, 3D printing of custom-designed glass microdevices. The business activities focus on the Contract Manufacturing and Development of microsystems, from rapid prototyping to industrial series manufacturing at wafer-level. The FEMTOPRINT® microfabrication platform enables truly free-form surface/volume definition, welding, polishing, and ablative solutions in glass, creating a large variety of 3D microdevices in many different applications, such as in micro-optics, photonics, microfluidics, micromechanics, and microelectronics. With a monolithic approach to avoid challenging assembly and alignment steps, it enables the integration of optical, mechanical and microfluidic functionalities with a process resolution down to one-micron, high aspect-ratios, geometrical accuracy and surface quality. The company employs 30+ highly skilled professionals and is certified ISO13485, having its manufactured products being used in over 25 countries by leading international entities and fast-paving tech companies in biotechnology, life sciences, medical, watchmaking, automotive, aerospace, semiconductors, and other domains. www.femtoprint.ch



Nicoletta Casanova (CEO and President) is a serial entrepreneur with a passion for innovation always trying to make things differently - from being Technical Director at a Laboratory for Material Testing to young founder of a company active in the field of fiber optic technologies for structural health monitoring in Lugano, and afterwards becoming manager of an international technical company in Paris. After her first successful experience, she decided in 2013 to give birth to FEMTOprint SA, with the following main goals: open new technological horizons in industrial manufacturing and boost innovation in microsystems by providing means for rapid prototyping and serial production. Her passion for innovation is reflected in her additional activities as Innovation Counselor at the Swiss Innovation Agency "Innosuisse", as Chair of the BRIDGE Steering committee, and as Leader of the Group for innovation at the Association of Ticino's Industries. **Nicoletta Casanova is a member of the EPIC Board of Directors.**



Fluence is a laser manufacturer based in Warsaw (Poland) focused on environmentally stable femtosecond fiber laser technology. The company's mission is to deliver maintenance-free femtosecond lasers with an exceptionally long lifetime. Long years of research have led Fluence to create shock and temperature immune femtosecond lasers which can be used in various fields: from science to industrial micromachining. Fluence expertise and products extend to optical parametric amplifiers and laser pulse diagnostics equipment, revising the standard approach. www.fluence.technology



Michał Nejbauer (Co-founder and CEO) graduated in Physics (field of optics) from Warsaw University by making his first femtosecond CPA system. He then completed his Ph.D. in Laser Centre at the Institute of Physical Chemistry of the Polish Academy of Sciences by developing laser sources for femtosecond stimulated Raman spectroscopy. Michał has more than ten years of hands-on experience in building ultrafast lasers from scratch in various technologies, emphasizing nonlinear light conversion techniques. He founded Fluence with other laser experts as he believes that femtosecond lasers can perform better.

COMPANY DESCRIPTIONS & BIOS



Fraunhofer Heinrich Hertz Institute does research on communications since more than 90 years. Nowadays, about every second bit transported in the internet touches HHI InP technology on its way to the receiver. With a strong focus on InP, we also develop polymer waveguide based hybrid integration and silicon photonics. While our expertise is strongest in high performance (100Gbit/sec and above) data- and telecom and in Photonic Integrated Circuits for Quantum Cryptography, we have strongly increasing activities in sensor systems, e.g. based on terahertz technology. We regularly offer multiproject wafers in InP. Our partners have the choice to do the design themselves and just use us as a foundry or to get both design and chips from a single source. www.hhi.fraunhofer.de



Martin Schell (Executive Director) studied physics at the RWTH Aachen University and took his Ph.D. in 1993 at the Technical University of Berlin. Following a one-year research post at the University of Tokyo, Martin Schell worked from 1995 to 2000 as a management consultant for high tech and energy at the Boston Consulting Group. Before he joined Fraunhofer HHI as head of the Photonic Components department in 2005, he was head of production at Infineon Fiber Optic Technologies. Since 2012, he is professor for optical and optoelectronic Integration at Technical University Berlin. Since 2014, Martin Schell leads Fraunhofer HHI together with Thomas Wiegand. From 2015 to 2021, Martin Schell was member of the EPIC Board of Directors, and from 2019 to 2021 member of the Jenoptik Science Advisory Board. He is head of the board of OpTecBB, a network of 100 photonic companies and institutions in Berlin and Brandenburg.



Fusion Bionic is a solution provider for laser-generated functional surfaces. Born as a spin-off from the Fraunhofer Institute for Material and Beam Technology IWS, Fusion Bionic is transferring bio-inspired principles such as the Lotus leaf or the Moth eye effect to technical surfaces by a high-speed laser process. The application of biomimetic functions can lead to a significant increase of the individual surface performance to enable the next generation of products. The solutions offered by Fusion Bionic are based on the high-speed laser technology Direct Laser Interference Patterning (DLIP) which is up to 100 times faster than established processes. The high-speed functionalisation using DLIP pave the way for high-performance surfaces with self-cleaning properties, reduced friction in tribological systems, improved contacting of connectors, enhanced biocompatibility of implants and more. Fusion Bionic covers the full value chain in laser-based surface functionalization, as follows:

- System solutions as production hardware using Direct Laser Interference Patterning
- Consulting on biomimetic surface functionalization
- Application development for advanced surface functions
- Engineering service for process machinery
- Integration, Service, Support & Training
- Manufacturing services for functionalized products

Fusion Bionic – We evolutionize surfaces! www.fusionbionic.com



Tim Kunze (CEO) holds a master's degree in computational science and a PhD in natural science. During his PhD study, he focused on the computational modelling of tribological processes of diamond-like carbon coatings using Molecular Dynamics simulations. He switched in 2014 from the academic field more towards applied research at Fraunhofer-Institute of Material and Beam Technologies (Fraunhofer IWS Dresden, Germany). As part of this paradigm shift, he directed his full focus to the topic of laser-based micromachining with the goal of advanced surface functionalization. From 2017-2021, he led the group surface functionalization at Fraunhofer IWS where he and his team developed unique surface structuring solutions for industry and academia using mainly (but not solely) interference-based laser surface texturing approaches. Since 2021, he is the CEO from Fusion Bionic, a spin-off from Fraunhofer IWS which focuses on the commercialization of laser texturing solutions using Direct Laser Interference Patterning for large-area and high-speed laser surface functionalization.



Hamamatsu Photonics, driven by Japanese excellence and market-leading optoelectronic technology, helps our customers visualize, measure, and analyze crucial information. Our mission is to establish photonics as a fundamental source of innovation for all customers. On the forefront of the development of new and existing applications, our advanced and highly sophisticated product range includes sources, detectors and imaging products designed to cover the entire optical spectrum. Present since 1953 across a vast array of industries, such as scientific research, medical, and industrial processes, we leverage added-value services and custom-made photonics solutions to meet our customer's ambitions without compromise. With headquarters in Hamamatsu, Japan, where our manufacturing and research facilities are located, we enjoy a global presence with business offices and associated companies throughout Asia, Europe and North America, and over 5,000 staff worldwide. www.hamamatsu.com



Marco Mayer (Strategic Business Development Manager, Hamamatsu Europe) started his career as a mechanical engineer where he developed skills in the field of optics. His early professional experience incorporated periods in Telecom & Datacom, Ophthalmology and many more industries. He then applied his wide industry knowledge into sales with a focus on optoelectronic components and systems. In 1990, he joined Hamamatsu Photonics as an Area Manager for Switzerland overseeing the local sales team. He also heads the Hamamatsu Think Tank Europe group where he provides strategic support with responsibilities in Sales and Marketing throughout Europe. In January 2022, his role evolved to Strategic Business Development Manager Hamamatsu Europe.



Ibsen Photonics is a global provider of transmission gratings and customised grating-based spectrometer modules for OEM applications. Our transmission gratings cover the UV, VIS and NIR ranges and are used in diverse industries such as telecom, sensing, lasers and spectroscopy. Our high performance, compact spectrometer modules are used by international customers in sensor systems and spectroscopy applications such as absorption and fluorescence spectroscopy, Optical Coherence Tomography, Raman Spectroscopy and Laser Induced Breakdown Spectroscopy. Ibsen Photonics is a privately held company, majority owned by Foss A/S, with headquarters in Farum, Denmark. www.ibsen.com

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Henrik Skov Andersen (CEO) joined Ibsen Photonics in February 2011, bringing international experience from senior management positions at Coloplast A/S, Scandinavian Mobility and Timken, and several years as a consultant at McKinsey & Co. At Ibsen, Henrik is responsible for securing strong and profitable growth through long term partnerships with industrial customers and has grown the business 30% per year since 2014. Henrik Skov Andersen holds a M.Sc. E.E. from the Technical University of Denmark and an MBA from INSEAD.



ICON Photonics has developed a wafer-level integration platform combining a Silicon Optical bench and a unique on wafer polymer microoptics technology. This platform is ideal to create custom and reliable optical micro-benches integrating fiber coupling and attaching solutions as well as high-speed electrical interconnects, enabling the next generation connectivity addressing the optical transceiver market and the Quantum photonics markets. www.icon-photonics.com



Carlos Viana (CEO) is the Co-founder and Chief Executive Officer of a deep tech startup company, ICON Photonics SAS, developing advanced chip optical I/O interconnects for the next generation connectivity. He holds a PhD in Photonics from Université Paris-Est, France and he has more than 10 years of experience in photonics technologies, Administration & Business development.



Imagine Optic is a provider of Shack-Hartmann wavefront sensing hardware and software, adaptive optics technologies and professional services in applied optics. The company works with scientists and industrials in domains including pure science, industrial quality control, space and defense, semiconductors and many others. From X-EUV to NIR wavelengths, we develop, manufacture, distribute and support a very large range of wavefront measurement and correction technologies. From augmenting resolution in bioimaging applications to improving beam shape and propagation for ultra-high intensity lasers, we have the hardware and software to meet customer needs. www.imagine-optic.com



Samuel Bucourt (CEO) graduated from Institut d'Optique Graduate School and from HEC. He founded Imagine Optic in 1996 and Imagine Eyes in 2003. Both companies are offering instrumentation based on wavefront sensing and adaptive optics for academic, industrial and medical purposes. He is the co-author of a few patents and scientific articles. He is an expert in metrology as he started his career by developing a 3D probe based on conoscopic holography (Le Conoscope). Samuel is also the VP of Photonics France and member of the board of Directors of EPIC. Samuel Bucourt is a member of the EPIC Board of Directors.



The Institute of Solid State Physics, University of Latvia (ISSP UL) is internationally recognised leader in the materials sciences and cross-disciplinary topics in the Baltic States. It is a core player in the national Photonics and Smart Materials ecosystem. The ISSP UL is combining a Centre for Excellence in Material Research with Material Research & Innovation Centre. The four Priority Research Fields of the Institute are:

- Functional materials for photonics, sensorics, and electronics
- Theoretical and experimental studies of materials structure and properties
- Nanotechnology, thin films, nanomaterials, and ceramics
- Materials for energy harvesting and storage

ISSP UL has recently developed Nanotechnology centre with 650 m² and ISO 4 - 8 class cleanrooms with expertise in polymer photonics, OLED, microfluidics, thin films, 1D and 2A material nanodevices. www.cfi.lu.lv



iPronics, Programmable Photonics is a spinoff company from the Universitat Politècnica de València, Spain. iPronics develops the innovative concept of Field Programmable Photonic Gate Arrays (FPPGAs), which are based on a common optical hardware configurable through software to perform multiple functions. iPronics contributes to the development of future information processing systems where electronics and photonics work cooperatively by synergistically exploiting the best capabilities of each technology. It brings the added value of optical reconfigurability to products with broad fields of application including 5 and 6G telecommunications, data center interconnection, artificial intelligence, signal processing, sensing and quantum information. www.ipronics.com



Ana González (Director of Strategic Partnerships) is Director of Strategic Partnerships at iPRONICS. Her role is to investigate new applications and identify potential partners for the implementation of Field Programmable Photonic Gate Arrays (FPPGAs) including relationships with the supply chain and supporting customer operations. She has a solid network at the Photonic Integrated Circuit (PIC) industry with a large experience reaching out commercial partners and new adopters of PIC technologies. Her expertise lies in the development of optical systems and the investigation of applications such as Sensing and Datacom. She received her bachelor's degree in Chemistry from the University Autonomous of Barcelona (UAB) and her PhD degree from the Catalan Institute of Nanoscience and Nanotechnology (ICN2).



MORE LIGHT



Jenoptik is a globally active technology group and is active in the three photonics-based divisions: Light & Optics, Light & Production and Light & Safety. Optical technologies are the very basis of our business: Under the TRIOPTICS brand, Jenoptik also offers optical test and manufacturing systems for the quality control of lenses, objectives and camera modules. Our key target markets primarily include the semiconductor industry, medical technology, automotive and mechanical engineering, traffic, aviation as well as security and defense technology industries. Approximately

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4,900 employees work for Jenoptik worldwide. The Group's headquarters are in Jena (Germany). JENOPTIK AG is listed on the German Stock Exchange in Frankfurt and is included in the SDax and TecDax. According to preliminary figures, Jenoptik generated total sales including VINCORION of around 900 million euros in fiscal year 2021. www.jenoptik.com



Stefan Traeger (President and CEO) is the President and CEO of Jenoptik since 2016. He completed his PhD in 1998 as Dr. rer. nat., at the Leibniz University of Hanover and subsequently attended Stanford University in Palo Alto, California, as postdoctoral research affiliate. In 2003, Dr. Traeger obtained a Master of Business Administration at the Purdue University in Lafayette, Indiana, as part of an Executive Education Program. Dr. Stefan Traeger started his professional career at Carl Zeiss in 2000, where he held various management positions until 2007, including as Director Strategic Business Development of Carl Zeiss Meditec AG in Jena and as Managing Director of Carl Zeiss SMT Ltd. in Cambridge, UK. In 2007, Dr. Stefan Traeger was appointed Managing Director of Leica Microsystems CMS GmbH, a Danaher Group company. As Vice President & General Manager, he was responsible for the global Life Science Division of Leica Microsystems. From 2013 to 2017, he was a member of the executive committee of the listed Swiss company Tecan Group AG where he managed the global retail customer business in the Life Sciences Division.



Jolt Capital is a fully independent private equity firm providing growth capital to European B2B deeptech companies about to go global and with current revenue from €15m to €50m. Led by seasoned investors and former C-level executives, Jolt Capital actively drives portfolio companies' expansion and exits. Jolt Capital's proprietary AI platform, Jolt.Ninja, exponentially improves mapping of Europe's technology ecosystem, ESG-compliant deal flow generation, due diligences and post-investment activities. www.jolt-capital.com



Jean Schmitt (President and Managing Partner) is President and Managing Partner at Jolt Capital, an independent private equity firm he founded in 2011 to invest growth rounds in B2B deeptech European companies. Prior to Jolt Capital, Jean was Managing Partner at Sofinnova Partners, running the IT practice with a focus on telecom and wireless markets. Before his career as an investor, Jean was the CEO and founder of 4 companies with successful exits, including SLP InfoWare, sold to Gemplus in 2000. He is a senior lecturer at Telecom ParisTech and HEC Paris, a former Chairman of the International Venture Club and a Member of Henkel's Henkel X mentorship program. Jean is currently a board member of Sinequa, NIL Technology, Interel, Blackwood Seven, Verimatrix and Virta. He graduated from Telecom ParisTech and holds a post-graduate degree in Artificial Intelligence.



Lambda-X: Optical excellence, designed and built for you, designed and built for the field. Because innovation is at the core of our values, we are the trusted partner in the field of OEM optical systems for the development of pioneering programs, from design and prototyping to production and certification. Through an extended technical experience, Lambda-X provides a toolbox of in-depth knowledge and methodologies to ensure our customers' excellence. We focus on high-tech innovation industries operating in various fields: space and security, bio-medicine and life sciences and quality control of industrial or scientific processes. www.lambda-x.com



Olivier Dupont (CEO) has received his PhD in Science from Université Libre de Bruxelles (ULB) in 1992. The first part of his career, 1985-2002, was academic. During that period, he worked in the Microgravity Research Center, a laboratory of the polytechnic school of the Université Libre de Bruxelles where he was involved in the development of various fluid science experiments in microgravity onboard sounding rockets and the Spacelab D2 Mission. In parallel with the scientific research, he develops as project manager, optical equipment for fluid and material science in microgravity conditions. In 1996 he founded Lambda-X with two partners. Olivier has been the CEO of the company since 2002.



Laser 2000 supplies Photonic and Fiber-Optic solutions matching even the most demanding applications. For more than 35 years we see ourselves as a service provider, enabling our partners to apply Photonics in European industry and research. As a combination of value-adding reseller, integrator, and consultant, we cooperate with global technology leaders to supply customer-specific solutions from a single source. Our partners and customers are supported in every aspect from design phase, prototyping, system assembly to procurement. To meet the individual market and customer needs our team of over 60 people is available in offices across Europe (D-A-CH, France, Iberia and Scandinavia). Together with affiliated companies in the UK and BeNeLux we insure international proximity to our customers. www.laser2000.de



Andreas Börner (CEO) is leading Laser 2000 GmbH since 2020 in a broad expansion phase driven by PE investment. A master's degree in Photonics and over 10 years of experience in sales and management positions in the laser manufacturing field provide background in a wide range of photonics markets, from fundamental research to semiconductor industries. Initially with the sales of ultrafast lasers for High Q Laser in Austria, then in various roles at InnoLas Laser (Germany) responsible for development, product management and worldwide sales of scientific and industrial high-energy nanosecond lasers. Business development and sales structure implementation with a team of experts within a well-known and connected company such as Laser 2000 is a real passion.



Laser 2000 (UK), based in Cambridge, UK, is the UK's leading value-added reseller in Photonics and Fibre Optic Networks. We also offer suppliers entry to the US market through our US arm, AVR Optics (Rochester, NY). Our team of 45 staff, most with a PhD or Masters in physical/life sciences or networks, and several with international C-Suite experience, take a consultative approach to understand customers' needs and provide solutions. Our highly active field sales team & product managers bring deep market penetration of academic, industrial, and life sciences research; industrial production sensing & monitoring; and fibre optic operators & infrastructure. Our local inventory holding delivers high levels of customer service. We are experienced in taking business from start-up to OEM volume, handling subcontract processing, parts packaging & presentation to meet lean flow, high volume automated manufacturing requirements, e.g. for photonics based point of care diagnostics. We support diversity, staff well-being and schools encouraging careers in STEM. www.laser2000.co.uk

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David Gillett (CEO) became CEO of AVR Photonics Group in February 2021, leading the MBO of the business which celebrated its 30th year in March 2022. AVR Photonics Group is the parent of Laser 200 (UK) in Cambridge UK and AVR Optics in Rochester, NY. He brings over 25 years' experience in creating the right environment for staff well-being, business growth and customer satisfaction, much of it as CEO, Sales Director and Product Manager in international high technology and engineering companies including Coherent Inc; Highwave Optical Technologies SA; and Oxford Instruments plc. Having led manufacturing & inventory operations as well as sales & commercial functions of businesses with very high customer service requirements, he brings an all-round understanding of both customer and supplier needs. David holds a Doctorate in laser spectroscopy & molecular quantum mechanics of free radicals and a Masters in Chemistry both from the University of Oxford, and held an NSERC Postdoctoral Research Fellowship in optical laser spectroscopy at the University of British Columbia, Vancouver. He speaks a number of European & Oriental languages and is highly experienced in international market selection & market entry globally.



MEMBER OF THE NYNOMIC GROUP



LayTec is a major provider of in-situ and in-line optical metrology for thin-film processes. These metrology tools are used in a broad range of thin-film applications such as LED & LASER production, thin-film photovoltaics, oxide and organic deposition as well as other large area deposition processes. LayTec's integrated metrology provides access to all key thin-film parameters in real-time – either in-situ, during the deposition process, or in-line. Recently, also in-situ metrology tools for wet and dry etching have been added expanding LayTec's portfolio along the production chain. Beyond these integrated methods, LayTec also offers mapping solutions which ideally complement in-situ measurements by providing uniformity analysis of the deposited layers. The implementation of LayTec metrology systems in production processes significantly shortens development cycles and enables an efficient quality control that helps to considerably reduce production and development costs. www.laytec.de



Volker Blank (CEO) holds a diploma in physics from Goethe University Frankfurt am Main where he worked on spectroscopy applications of ultra-broadband THz pulses. Volker joined LayTec in 2012, initially being responsible for sales in Asia and later as well in USA/Canada. Since 2018 Volker has been Director of Marketing. He continues heading LayTec's Sales & Marketing department as part of his responsibilities after being appointed LayTec's CEO in 2021.



Le Verre Fluoré was established in 1977 as a spin-off of the discovery of fluoride glasses by Poulain brothers. Over 40 years of continuous R&D effort lead to outstanding pioneering achievements, among them are ZBLAN and Fluoroindate glasses, low loss optical fibers, qualified for industrial use. High reliability and low costs outline maturity of fluoride glass technology. www.leverrefluore.com



LIDARIS mission - better laser optics performance within the global supply chains via fast turnaround optics testing services. We support those organizations that seek to learn more about laser optics performance or want to improve it. Our main focus is ISO standard-based Laser-Induced Damage Threshold (LIDT) measurements in a wide range of testing conditions (UV-IR / fs - CW) and related R&D services. The company was founded in 2012 as a spin-off of the Vilnius University Laser Research Center by a group of researchers working on laser damage phenomena. More than 140 organizations worldwide trust LIDARIS services daily. LIDARIS's experience covers more than 20 years of research in the field of LIDT. Currently, our team consists of 18 people, 5 of them holding Ph.D. in physics. www.lidarisis.com



Andrius Melninkaitis (CEO) obtained his Ph.D. degree in Physics from Vilnius University under the supervision of Prof. Valdas Sirutkaitis in 2009. In 2012 he co-founded Lidaris company together with his former students and coworkers. Now he is CEO of Lidaris and an also active scientist of Laser Research Center of Vilnius University; Together with co-authors, he has contributed more than 50 research papers related to the topic of laser damage metrology. Currently, he is also actively involved in ISO laser damage standardization activities and supervising metrology projects dedicated to improving damage thresholds and predicting the lifetime of high-power laser optics.



Light Conversion is the world leading manufacturer of femtosecond lasers PHAROS and CARBIDE as well as wavelength tunable ultrafast light sources based on TOPAS and ORPHEUS series of optical parametric amplifiers (OPA). Light Conversion is a privately-owned company with >350 employees. Company has its roots in Laser Research Center of Vilnius University. Femtosecond lasers from Light Conversion are broadly used for scientific and industrial applications with more than 12 years history of their usage in 24/7 manufacturing. With over 6000 various systems installed worldwide, Light Conversion has established itself as a reliable and innovative producer of ultrafast optical devices. www.lightcon.com



Martynas Barkauskas (CEO) is CEO of Light Conversion, a leading femtosecond laser manufacturer located in Vilnius, Lithuania. Previously, Martynas held different positions within the company working at femtosecond laser development, managing world-wide service actives, and serving as head of sales. He holds a degree in laser physics from Vrije Universiteit Amsterdam, the Netherlands, and PhD in ultrafast spectroscopy from Vilnius University, Lithuania.



Paulius Bliškevičius (Sales Engineer) studied applied physics in Vilnius University and has master's degree in laser technology and micromachining. He has been working in photonics oriented organisations in positions such as laser engineer, field service engineer and recently joined industrial laser sales team in Light Conversion. Paulius has been involved in projects spanning from nanosecond to femtosecond lasers as well as in tunable wavelength systems.

COMPANY DESCRIPTIONS & BIOS



Aivaras Urniežius (Key Account Manager) has more than 12 years of experience in the field of photonics. He holds BSc and MSc degrees in laser physics and material sciences from Vilnius University Faculty of Physics. Aivaras is the Key Account Manager at Light Conversion, working closely with customers to develop new laser applications and keen to learn more about laser material interaction.



Lithuanian Laser Association (LiLA) strives to consolidate the efforts of its member companies, institutions and the Lithuanian laser community overall in retaining and persistently strengthening the leading positions the laser and closely related fields, counting both science and commercial developments. The companies under the LiLA umbrella ensure their customers and partners the highest quality R&D in laser technologies, and supply various components and devices ranging from micro-lasers to utmostly sophisticated equipment for Extreme Light Infrastructure facilities. Laser companies possess a full spectrum of skills and know-how necessary for the design and manufacturing of optical coatings, optical and opto-mechanical components, fine mechanics, short and ultrashort pulse lasers, laser technology equipment & work stations, and a number of other products and services. www.ltoptics.org



Petras Balkevicius (CEO) is an experienced senior level manager working in lasers and precision optics manufacturing industries since 1990. He was a research fellow in the Physics Institute of Lithuanian Academy of Sciences until 1990. During that period, he has completed his doctoral thesis on laser damage of optical materials in Vavilov State Optical Institute, Saint Petersburg.



Litilit is on a mission to advance industries through well-designed, reliable and affordable femtosecond lasers. The company 12+ years of experience delivering fiber lasers and related components for industrial, medical and scientific applications. www.litilit.com



Nick Gavril (Co-founder and CEO) has more than 15 years of experience managing design and production of optical modules, optical telecom devices and fiber lasers. Since 2003 he was leading R&D at an innovative telecom component manufacturer. In 2015 Nick co-founded Litilit (known as Integrated Fiber Optics at the time). Nick also serves as a principal project implementer at the Center for Physical Sciences and Technology. He holds 4 patent applications (one in the US) and he is a co-author of 2 scientific publications.



Liverage Technology is a Taiwanese company which was founded by professional engineers in the industry in 2003. We developed our own products and produce it in our Taiwan's factory, our team members pride themselves on our innovation and dedication to the highest quality in the fiber optical industry. We are a professional manufacturer of high-quality fiber optical components, transceivers, and measurement equipment. We also provide customized products for our customers, OEM/ODM. Liverage is targeting for the increasing market of testing equipment with high quality but also user friendly, and we are always pleasure to provide the niche market products for everyone. www.liverage.com.tw



Cara Gau (Executive Assistant for CEO) is Executive Assistant for CEO and also Liverage Technology's regional sales responsible for the European market. She is based in Amsterdam, Netherlands for providing the best service for Liverage's European customers and develop the business in Europe. Cara is 25 years old and is also studying for a master's degree at the University of Amsterdam, major in Digital Business. Cara used to help Liverage with attending exhibition all over the world (OFC, ECOC, FOE, Computex) and officially joined the company in 2020.



Luceda Photonics enable photonic IC designers to enjoy the same power as electronic IC designers. We automate and integrate the complete photonic design flow. Our Python-based platform enables design teams to easily share and reuse their photonic design IP using a standard language. We leverage more than 50 years of photonic experience to help our customers create manufacturable designs. Our design products bundle our expertise to enable our customers to quickly achieve their first tape-out and get their design right the first time. www.lucedaphotonics.com



Erwin de Baetselier (CEO and Co-founder) has worked in several management roles for the EDA and multi-physics industry in companies such as HP and Agilent. He holds a PhD in electronics from the University of Gent and a Master of Business and Technology degree from the University of New South Wales. In 2014 he co-founded Luceda Photonics.



Lumics, founded in 2000 and headquartered in Berlin, is a global key player for design and manufacturing of high-power diode lasers. Own in-house capabilities range from chip level up to fiber-coupled diode laser modules and complete system solutions based on single emitter technology. The product range comprises multi & single mode diode lasers from 670nm up to 1940nm. The LuOcean™ series features an unmatched choice of both single and multiple wavelengths modules, sensors and accessories, offering fiber-coupled output powers from 1W up to >800W. Proprietary driver boards and heat management solutions complement the offering. Other industry standard solutions include 2-pin TO packages up to 10W and single mode 14-pin BTF packages up to 1.2W (peak power). All lasers are field proven and 100% individually tested. Additional features allow for perfect adaptation to numerous applications in Medical & Life Sciences, Material Processing, Analytics, Sensing, Metrology, Seeding, Pumping, Illumination, and many more. www.lumics.com

COMPANY DESCRIPTIONS & BIOS



Beate Sauter (VP Sales and Marketing) has >23 years of international management experience in the laser & photonics industry and is a globally recognized technical sales expert in this market. She joined Lumics in 2013 and is successfully leading the company forward to becoming one of the top leaders of diode laser solutions for medical & life-science applications as well as profitable industrial niche markets. Her focus is on the development of OEMs and large B2B integrators, plus on implementing and managing a global sales network. Beate held senior management positions at a number of leading photonics companies, including Sales Director Europe for US diode-maker Intense, Key Account Manager South Europe for Edmund Optics (based in Italy), and Director Sales & Marketing for Toptica Photonics whom she joined shortly after being founded and where she played a key role in Toptica's first eight years. Beate studied International Business at the Karlsruhochschule International University Karlsruhe.



MEETOPTICS is a Specialized Photonics search where engineers, scientists and innovators find and compare components and technologies amongst trusted suppliers. This search, now listing more than 45,000 products, is highly customizable and specialized in dealing with the technical details of products, allowing optical engineers, researchers, technicians and innovators in photonics to quickly find the products they need to build their photonics technology and access any other photonics-based technology and services, while photonics manufacturers can advertise their products and services centrally. MEETOPTICS increases the visibility of highly specialised photonics technology companies and connects them with a direct need of requested technology from customers in the field. www.meetoptics.com



Bárbara Buades (CEO and Co-founder) finished a PhD in Photonics (Attoscience: Ultrafast & non-linear optics) at ICFO - The Institute of Photonics Sciences in Spain (2018), MSc in Photonics by Imperial College London UK and background in Physics (BSc+MSc). After her PhD, she co-founded MEETOPTICS together with Dr. James Douglas, to help researchers and engineers in Photonics and Optics find photonics equipment and technologies for their setups. For that MEETOPTICS developed what started as an optics metasearch, something like Skyscanner or KAYAK but for optics. Now with more than 45.000 optics + light sources and expanding to Optomechanics, Fiber Optics and Detection devices, they have helped +55.000 professionals around the world, mainly in Europe and North America.



Menhir Photonics is a worldwide supplier of ultrafast lasers (picosecond and femtosecond lasers) and related photonics solutions. We focus on industrial quality by emphasizing the reliability and robustness of our products. This allows our ultrafast lasers to be used in all conditions, from laboratory setups to space applications. Thanks to innovative technology and design, the lasers offer extremely low phase noise and timing jitter at record high pulse repetition rates, making them the right choice for numerous applications including timing & synchronization, microwave generation, and applications in telecommunication such as quantum key distribution or photonic analog to digital conversion. www.menhir-photonics.com



Florian Emaury (CEO and Co-founder) of Menhir Photonics (Glattbrugg, Switzerland), a company focusing on manufacturing low-noise gigahertz ultrafast lasers for applications bringing together the field of photonics and electronics. After graduating in 2010 from the Institute d'Optique Graduate School in Paris (MSc in Photonics/Physics), his career started with engineer experiences in Fianium (UK) and Coherent (CA, USA) before joining ETH Zürich to obtain a PhD in Physics in 2015 in the group of Prof. Ursula Keller. Since then, Florian is devoting to create business opportunities with femtosecond lasers. In May 2018, Florian co-founded Menhir Photonics to offer reliable and turnkey ultrafast lasers to its users.



Monocrom started their passion for lasers back in 1993 when their first laser was developed in Vilanova i la Geltrú, Spain. Today, Monocrom Laser Diode Solutions advance sectors and industries where exist conventional technologies are reaching their limits in terms of speed, precision, efficiency and sustainability. Monocrom design develop and manufactures high-power diode lasers for the Medical, Aerospace & Defence and the Industrial sectors, based on it's own Patented technology of mounting- Clamping. Monocrom has been able to achieve a very nice pace of growing since 2015 by implementing process automation, high quality assurance and a "YES WE CAN" target oriented way of thinking. www.monocrom.com



Elad Volfin (Chief Revenue Officer) has a vast experience in Electro magnetics, Big data and intelligence, and a background in Electronics engineering and Business administration and has been part of the Photonics industry for more than 12 years. In the last year, after acting as the VP of Sales & Business Development for Monocrom, Elad is now holding the Position of the CRO of Monocrom, exploring for new collaborations, investments and partnerships in the industry.



Carles Romani (CEO) is a new player to the Photonics industry. Finalizing an Executive Education program at IESE Business School and holding a Master in Mechanical Engineering, Carles recently joined Monocrom as the new CEO. After several years in the Automotive industry, worldwide, Carles most recent achievement has been bringing up to production a new plant in the US, from the very first step of a greenfield all the way to a running facility, reaching the goal of 40 Million in revenue. Carles will contribute, with his vast experience in business development, operation and plant strategies, to the growth of Monocrom, heading up new frontiers.



Mountain Photonics



Mountain Photonics represents innovative manufacturers of lasers, light sources, instruments for optical measurements, optomechanics and photonic accessories in the German speaking market and some neighboring countries. Furthermore, we develop our own product lines for integrating spheres (Mountain Spheres), customized optical components (Mountain Optics) and optical measurement devices (Mountain Instruments) and offer services like order measurements, calibration or product trainings. With together about 80 years of experience in the photonics industry our sales team accompanies and supports our customers to master their measurement tasks by adding additional value to each application. We are the first point of contact for all questions concerning optical measurements, offer orientation at the beginning of the purchasing

COMPANY DESCRIPTIONS & BIOS

process and, if desired, also accompany our customers during their project. Intensive consulting and our technical expertise enable us to build long-term and trusting customer relationships. www.mountainphotonics.de



Michael Rotschädl (CEO) graduated in industrial engineering in 2010 from University of Applied Sciences in Kempten. The same year he joined Mountain Photonics, formerly known as Optoprim GmbH, as a sales and applications engineer. He was responsible for all kinds of light sources, spectrometers as well as its accessories. In 2015 I became the general manager of the company focusing on expanding the distribution network as well as building and developing own products under the brand name Mountain Instruments. First tunable light sources were sold in 2018, integrating spheres and calibration sources will follow this year.



MPS Microsystems develops and manufactures high-precision and high-performance electro-mechanical microsystems. By managing the miniaturization and integration of functions in small spaces, MPS Microsystems provides solutions that meet specific customer requirements. The MPS product family includes, but is not limited to: "short stroke, high frequency lens focusing mechanisms" based either on flexure elements or linear actuators; "compact zoom mechanisms" used for laser guidance or stereoscopic surgical cameras; and "particle free laser focusing systems" suitable for laser cutting or other laser machining technologies. MPS Microsystems also offers a standard range of mechanical components, such as linear bearings and ball screws. Located in Bienne, Switzerland, in a modern and well-equipped facility, MPS Microsystems offers its 220 employees an exceptional working environment and provides customers with unique capabilities that are perfectly suited to the requirements of the optics & photonics industry. www.mps-microsystems.com



Eugen Bärwald (Area Sales Manager) has a mechanical engineering background. He has worked for over a decade in the high precision bearing applications. Eugen has been working at MPS Microsystems since November 2020 and is responsible for the business development in Europe. He is curious about optical technologies and enjoys looking for new applications where MPS can provide added value to the industry like precise miniaturized zoom mechanism or fiber positioning x-y stages.



Nanoplus Nanosystems and Technologies is the technology leader for distributed feedback lasers for high-precision gas sensing in industry and research. We design and produce monomode laser diodes (760 nm – 3000 nm), interband cascade lasers (3000 nm – 6000 nm) and quantum cascade lasers (6000 nm – 14000 nm). Based on more than 15 years of experience, we support our customers with extensive engineering know-how, OEM solutions and various technological services. Our devices operate reliably in more than 20.000 installations worldwide. Applications include industrial process optimization, oil & gas, environment, defense, safety, automotive, health and space. nanoplus is a ISO 9001:2008 and ISO 14001:2004 certified supplier. www.nanoplus.com



Johannes Koeth (CEO) graduated 1996 in Physics at the University of Würzburg with studies on molecular beam epitaxy (MBE) and optical properties of GaN. During his Ph.D., he worked on MBE of lasers in the AlGaSb system in the wavelength range between 1.5 μm and 2.0 μm . One of the main topics of his thesis was the investigation of GaSb based emitters on GaAs substrates. He realized the first GaSb edge emitting laser diodes based on GaAs as well as optically pumped Ga(Al)Sb/AlSb VCSELs, both at 1.5 μm . In addition, he developed and characterized antimonide based DFB lasers in the 2 μm range. In 1998, he founded nanoplus Nanosystems and Technologies GmbH and has presided the company as CEO since then.



NKT Photonics is the leading supplier of high-performance fiber lasers, fiber optic sensing systems, and photonic crystal fibers. Our main markets are Medical & Life Science, Industrial, Aerospace & Defense, and Quantum & Nano Technology. Our products include ultrafast lasers, supercontinuum white light lasers, low noise fiber lasers, and a wide range of specialty fibers. We have lasers in space and deep under the oceans and our products run in both clean rooms and on oil rigs at sea. We seed the world's largest laser fusion experiment, power hundreds of the most advanced microscopes on the globe, and enable the quantum computers of tomorrow. We aim to make a difference in the world, and we are involved in projects that will transform the way we live through life-science, renewable energy, and the basic understanding of the Universe. With over twenty years of expertise, IP and experience, NKT Photonics strives to continually be the market leader in everything we do. NKT Photonics has its headquarters in Denmark with sales and service worldwide. NKT Photonics is wholly owned by NKT A/S. www.nktphotonics.com



Basil Garabet (President and CEO) is the President and CEO of NKT Photonics which he has successfully grown since 2015. Basil is a serial entrepreneur with a 38-year tenure in Photonics where he has started, led and turned round a number of International Photonics companies. Basil's career has spanned leading positions in JK Lasers, EM4, Altitun, Melles Griot and Lasertron. Basil is closely involved in promoting Photonics globally, especially research in new applications such as Quantum, and performs numerous honorary duties including Board seats on EPIC, Bifrost Communication, and the Danish Quantum Community. Basil holds an MSc in Lasers and Their Applications. **Basil Garabet is a member of the EPIC Board of Directors.**



NLIR makes Ultrafast Mid-Infrared Spectrometers and Detectors. Our ultrafast Mid-Infrared Spectrometers that can acquire up to 130.000 spectra per second. Applications are In-Line measurements during production of products, materials, coatings, OCT, NDT and more. We also offer up to 25 GHz Mid-Infrared Detectors. Applications are chemical kinetics, IR communication, Combustion analysis and more. Further a version of our Mid-Infrared Single Wavelength Detector is super sensitive. It has a NEP of a few $\text{fW}/\sqrt{\text{Hz}}$. www.nlir.com

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Peter Tottrup (CEO and Co-founder) has three decades of operational and investment experience in high tech industries. For 6 years, he is serving as CEO for NLIR. Prior to that, he has 10 years as Venture Capital Partner. Peter also spent 7 years as Consultant (DK & Schweiz), twice as CTO in VC backed startups (DK & USA) and 4 years at Accenture as Experienced Senior Consultant (DK, Sweden and USA).



NorthLab Photonics is a competence center for advanced fiber preparation, splicing, glass/fiber processing and FBG manufacturing solutions. The products and services are designed for a wide area of applications; from manufacturing of Fiber Bragg Gratings, Mode Field Adapters, combiners/bundles to preparation and splicing of polyimide, exotic and large diameter fibers. NorthLab customers are found in all industries and research areas where optical fibers are used. Examples are companies and universities working with high power lasers, sensors, medical probes, telecom and defense applications. The product portfolio includes the NORIA for “plug & play” manufacturing of Fiber Bragg Gratings, the ProCleave and ProCoater series for cleaving and recoating of standard and large diameter fibers and the ProView interferometer for end-face inspection. We are also long-term partners with 3SAE Technologies in the US and Furukawa in Japan as well as several other suppliers, distributors and research institutes around the world. www.northlabphotonics.com



Per Karlsson (CEO) graduated from the KTH Royal Institute of Technology in 1994 with a Master of Science degree in Mechanical Engineering. He started his career by joining Toshiba in Japan where he worked with design of manufacturing equipment for the semiconductor industry. Prior to co-founding Northlab Photonics in 2008, he served as a Business Development Manager, Product Manager, and Vice President for Sales and Marketing with Ericsson from 1998 to 2005. His expertise was then tapped by Actture Technologies in 2005 where he acted as president until 2008 when he co-founded Northlab Photonics, a fast-growing company focused on products and services for the photonics and fiber optics industry. Per has also served as business consultant with The Swedish Trade Council, where he offered consultancy services to Swedish companies doing business in Australia and New Zealand, and as member of the board for Noria Fiber Technologies.



NTS Optel, since 1986 based in Nijmegen the Netherlands, is a contract manufacturer that develops, produces, assembles and tests complex (opto-)mechatronic systems. We serve the following applications areas:

- Illumination (medical, machine vision, fiber, general illumination);
- Imaging (custom imaging optics, custom cameras, machine vision using custom or off the shelf optics and cameras, microscopy systems, fluorescence systems);
- Sensors (custom spectral sensors, custom position or height sensors, other sensors);
- Laser beam delivery (scanning, focusing, beam shaping, beam steering); and
- Industrial test equipment.

These are turn key integrated solutions involving e.g.: frame / cabinet design and production, user interface and machine control software, handling of products, motion control, optical sources and/or sensors, electronics. www.optel.nl or www.nts-group.nl/en/competences/optical-testers



Frank Ernst (Business Development Manager) is a result-oriented, value-driven professional with hands on experience in leading cross-functional teams to plan, build, launch and supervising multiple projects. Frank is adept in managing product lifecycle, roadmaps and networks. He is also specialized in achieving alliances with strategic business partners and vendors, establishing profitable relations with management, maintaining high quality service, identifying growth opportunities and striving for optimum outcomes. Frank is a multilingual communicator (Dutch, English, German and Chinese) possessing excellent negotiation, recruitment and leadership skills.



OCTLIGHT is a spin-out company from The Technical University of Denmark (DTU) which will deliver a OCT Swept Laser to medtech companies making it possible to do optical biopsies realtime and effortless with diagnostic power for the healthcare specialist. www.octlight.com



Thor Ansbæk (CEO) has a Masters in Engineering from The Technical University of Denmark. He also holds a Ph.d. in semiconductor lasers (VCSELs) for medical diagnosis. Attracted public funding for commercialization of the technology and pre-seed financing to spin-out the company OCTLIGHT. Has built a team of eight employees, leading consultants, a professional board of directors and an advisory board.



OFS is a world-leading designer, manufacturer and provider of optical fiber, fiber optic cable, connectivity, fiber-to-the-subscriber (FTTx) and specialty photonics products. We provide reliable, cost-effective solutions for a broad range of applications including telecommunications, medicine, industrial automation, sensing, government, aerospace, and defense. These products help our customers meet the needs of consumers and businesses, both today and into the future. Headquartered in Norcross (near Atlanta) Georgia, U.S.A., OFS is a global provider with facilities in China, Denmark, Germany, Morocco, Russia and the United States. OFS is part of Furukawa Electric Company, a multi-billion-dollar leader in optical communications. www.ofsoptics.com



Udo Fetzter (Key Account Manager) is a Key Account Manager for Specialty Fiber at OFS. He has 30 years of experience in photonics and fiber optics. He graduated at the University of Kaiserslautern and holds a master's degree in electrical engineering. Before joining OFS in 2017, he was working in different product management and business development roles at Hirschmann, JDSU, and Laser 2000. His deep knowledge and experience encompass passive and active optical components, network systems, optical test and measurement, and fiber sensing. His current focus is developing the business for OFS in Europe for specialty fiber and photonics solutions.

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Oplatek is the leading North-European solution provider in the field of photonics with over 35 years of experience. We are specialized in design and manufacturing specialty optical fibers and capillaries, molded glass components, thin film coatings, precision mechanics, and optical assemblies for various industries. By combining our fields of expertise, we can offer our customers a full chain of service from design to serial manufacturing. We can solve your photonics challenges! www.oplatek.com



Jyrki Huttunen (CEO) has a Master of Science (Tech) degree from Technical University of Helsinki (1986) and an eMBA degree from University of Kuopio (2002). He has worked in various managing positions for SME's mainly in Finland, and briefly in the USA. He has also co-founded two companies. Since 2008, he has been co-owner and CEO of Oplatek Group Oy.



Opto is a leading developer and manufacturer of high-precision optomechanical inspection modules and equipment, with locations in Germany and France. We produce Imaging Modules with software "reduced to your needs" for measuring, detecting and analysing in the micrometre range. Always reliable and fast, for your Industry 4.0 and AI applications in medical technology and industry. Since its inception in 1980, Opto has stood for optical inspection and digital imaging systems. It is a provider for some of the most technologically advanced industrial and bio-industrial applications in the world - including high-throughput cellular imaging, laser eye surgery, stent inspection, laser fault injection and much more. www.opto.de



Markus Riedi (CEO) studied precision engineering with a focus on optics, mechanics, and electronics at the Hochschule Munich. Internships at Rodenstock, Steinheil and Phytron complemented his studies. Since 1980, Mr. Riedi has also worked in his family's manufacturing business. During this time, Mr. Riedi qualified as a master craftsman and took over the management of the company in 1992. In 1993, Mr. Riedi began to work in parallel in Opto Sonderbedarf GmbH and took over 100% of the company in 1999. In 2008, the family business was integrated into Opto GmbH. Mr. Riedi acquired his business and management know-how in

numerous seminars in business management and management training. In his private life, Mr. Riedi was a top athlete in swimming for many years and subsequently coached competitive teams. Mr. Riedi is married, has two children and lives in Munich.



Optogama designs, develops and manufactures custom laser related products and develops technologies for laser processing, spectroscopy & analytical instrumentation, medical, vision and other applications. Company products and services cover compact 1,54 um "eye-safe" range lasers, laser crystals & optical components, laser beam delivery and beam shaping devices. www.optogama.com



Tadas Lipinskas (CEO) has a background in Laser physics and Optical technologies, graduated from Vilnius University. He has expertise in laser optics & crystals, laser technologies and applications. Tadas is R&D project coordinator in the company. His areas of interests include trade and manufacture of laser related components, design and assembling of optomechanical assemblies, Innovative laser related solutions for academic and industrial customers.



OPTOMAN designs, develops and manufactures advanced, high accuracy, and repeatability IBS thin film coatings and laser optics since 2017. R&D driven culture forces the OPTOMAN team to constantly improve the performance and reliability of thin film coatings so our partners eventually could enjoy the benefits of lower total cost of ownership. OPTOMAN as your sidekick is always willing and ready to help you with finding optimized solutions (ultra)fast and back you up in critical situations and finally get the job done as was promised. High level development is possible with experienced staff and innovative ion-beam sputtering (IBS) technology. Progressive control and automated process allow the deposition of complex structures of several hundred thin film layers. The advantages of spectral control include features, such as: higher contrast, repeatable performance, and tighter tolerances. In combination with ISO-6 clean room environment, OPTOMAN manufactures outstanding overall quality laser optics. Do not forget that with great laser power comes great responsibility for coaters! www.optoman.com



Remigijus Šliupas (Co-founder and CEO) considers photonics not just a technology or a science but a passion, which he got obsessed with 15 years ago at the University of Insubria, the same day when he met Dr. Paolo di Trapani and Dr. Matteo Clerici in their laboratory. Moreover, friends, colleagues and partners from Vilnius University, where he gained a deep technical background in different fields of photonics, demonstrated a true meaning of light and its impact for far-reaching possibilities. That is why he decided to become a part of this world-changing community.



Optonasthree is a professional Lithuanian company specializing in vacuum coating technologies: IBS, E-beam and Thermal evaporation and offers customized production, providing customers with solutions tailored to their specific application. The coatings produced by Optonasthree are extremely robust and resilient under long-term laser illumination, mechanical impact and varying ambient conditions. Coatings for infrared, visible and ultraviolet spectral ranges from as low as 190nm to as far as 20000nm are available. The coating materials include thin-film dielectrics, metals and semiconductor, ensuring highest quality and durability. They find applications in lasers devices and other optical systems. It's a regional leader of UV, VIS, Mid IR, Far IR, Variable Reflectivity and crystal coatings. Most advanced IBS sputtering machines are running at 24/7 regime to ensure fastest product manufacturing time. The company makes coatings of ultimate performance and durability on AGS, DKDP, LBO, LiIO₃, ZGP, YAG, KTA, KTP, YVO₄, ZnSe, RTP, KGW, CaF₂, BBO and other optical materials. www.optonasthree.com

COMPANY DESCRIPTIONS & BIOS



Evaldas Stralkus (CBDO) is the new Chief Business Development Officer for Optonas group of companies. Evaldas have more than 13 years' experience of working various positions in manufacturing companies. Latest position of his experience is CEO for Lithuanian Mint (circulation and collectible coins production). The company is 100% state-owned. He is Business Development professional with experience in C-level sales based on long term partnership, including experience in international sales with a demonstrated successful history of working on successful business lead and sales growth. Evaldas passion about manufacturing started from early beginnings as he has a master's degree in manufacturing (integrated production) science. He has constructive management approach and like to focus on continuous improvement to reach best organizational performance and output.



Optores is a pioneer in ultrafast swept lasers and optical coherence tomography (OCT). With sweep rates of several million OCT A-scans per second, Optores' founders coined the term "MHz-OCT". These ultrahigh speeds are ideal for novel OCT applications, such as real-time surgical guidance with 4D-OCT, large-area surveys, visualization of blood flow, and high-throughput industrial inspection. www.optores.com



Wolfgang Wieser (CEO) is the founder and CEO of both Optores and Wieserlabs. In addition to studying physics at the University of Munich, he has a strong background in electronics and software development. He received his PhD thesis for pushing the speed of OCT systems with high image quality by more than an order of magnitude and building the first real-time optical coherence tomography system with multi-MHz depth scan rates.



Optosigma is a leading global manufacturer of Optical Systems, Optical Assemblies, Optical Coatings, Opto-Mechanics, Manual and Motion Control Stages, and a variety of complimentary Photonics products. With over 19,000 standard items, we provide a wide range of high-quality products, and we also manufacture custom solutions to support various industries including Life Sciences, Bio-Medical, Semiconductor, Displays, Research, Telecommunications, Aerospace and Defense. "OptoSigma" was born in 1995 as a California Corporation as a subsidiary of SigmaKoki Co., Ltd., Tokyo Japan. SigmaKoki was born in Japan in 1977. Today, OptoSigma is our global brand name with affiliates in France, Germany, Singapore and China. Together we are known as, "The SigmaKoki Group" and we have over 45-years of experience and counting. Our motto follows three important words, Appreciation, Challenge, and Creation. Through creation, we follow a Japanese word, "Monozukuri" that can be defined as the art, science, and craft of manufacturing. Through "Monozukuri", we employ the highest quality standards for craftsmanship and continue to seek ways to improve our process, efficiency, and methods, all for the benefit of our highest priority, YOU, "Our Customers". We strive and challenge ourselves to create solutions that enable new technologies for a better tomorrow and a brighter future. On this page, you will be able to gain a deeper look into our history, our values, and our capabilities. If you need any additional information, do not hesitate to inquire further! www.optosigma.com



Guy Ear (President and CEO) has 10 years of several sales and marketing management positions in airlines, tourism and luxury hospitalities in France, UK and the United-States prior to deciding in 2005 to take a new challenge in the Photonics industry by taking a Sales & Marketing Director for Asia Pacific at a UV light-source manufacturer for Lithography, Mask Aligner equipment in Japan. With his strong self-taught abilities and capability in speaking 5 languages in the Asian region, Guy has built up an extensive experience and a human network. He founded Etendue Mejiro KK (Japan) in 2006, a company specialized in design and manufacturing high performance scan lens for semi-conductor and digital displays industry, which was sold in 2009. Guy joined SIGMAKOKI Group as the Head of the International Sales Division to expand the international presence of the SIGMAKOKI Group in Asia and recently by establishing a new subsidiary in Europe in 2014.



Orion Engineering is the project sourcing agency of choice for engineering and technical assignments. Our professionals have a solid technical background and we do have different options to strengthen teams; from filling temporary assignments to recruiting employees. We always deliver solutions tailored to our clients' needs and search for the best solution. Orion Engineering offers an infallible assessment of the professional atmosphere and wishes at a client ensures a prompt and perfect match. Our driving forces are technical professionals of intermediate, higher or academic level. People who are flexible and want to be challenged by interesting projects at a(n) (inter)national level. The success formula of Orion Engineering was rewarded in 2018 with 2 prizes, for being one of the fastest growing companies in the Netherlands. www.orionengineering.nl



René Louwers (Director) is an authentic, enthusiastic, driven, engaging, proactive leader with a strong entrepreneurial spirit and result oriented, who delivers revenue and margin growth. His major fields of expertise are (team) leadership, recruitment, commercial management and performance management.



Djordi van Beek (Partner in Technology Recruitment) is responsible for managing a team of Consultants, Business Managers and Recruiters at Orion Engineering. His team specializes in technical (project) staffing and is responsible for the entire recruitment and selection process of (inter-)national candidates with a focus on the High-Tech and Semiconductor industry. While making a difference on personal level, his team is always searching for technical talent in and outside our network (with a specific focus on interesting backgrounds like Applied Physics, Mechatronics, Electromechanics, Aerospace etc.)

COMPANY DESCRIPTIONS & BIOS



Phaseform designs and manufactures new types of refractive wavefront correction devices. Our core technology enables transmissive, ultra-miniaturized, adaptive optics elements: Deformable Phase Plates (DPP). They are able to perform high-order aberration corrections like deformable mirrors, but at the same time can be seamlessly inserted into any optical beam path like a lens. Our products allow us to compensate for complex aberrations (e.g., from 3D samples like in life-science microscopy) but also for spherical aberrations, negating imperfectly aligned optical setups or ill-prepared samples thereby increasing throughput of inspection workflows. The DPPs benefits can be applied in multiple fields, most prominently in microscopy, ophthalmology, optical testing and analysis, optical communication, astronomy, AR/VR and material processing. Phaseform is a spin-off from the Department of Microsystems Engineering (IMTEK) of the University of Freiburg in Germany. It aspires to become a leading company in the "New Era" of adaptive optics (AO) - where AO has finally become a standard and cost-effective tool for restoring the best possible quality of any optical system affected by optical aberrations. www.phaseform.com



Stefan Weber (CEO) has a long-standing technical background in Photonics and Adaptive Optics. He was on the management board of two successful high-tech startups: SwissLitho AG, manufacturing rapid prototyping nanolithography tools and modum.io AG in Zurich, developing IoT trackers for Pharma supply chain. Before that, he was product manager at Jenoptik Optical Systems GmbH, did his Post-Doc at the EPFL developing MOEMS systems, and earned his PhD in experimental at the FU Berlin.



PHIX Photonics Assembly started its operation in August 2018 in the High-Tech Factory in Enschede in The Netherlands. PHIX is offering a cost-effective manufacturing service for Photonic Integrated Circuit (PIC)-based modules in large volumes. PHIX offers assembly services for all three major PIC technology platforms (InP, Si and TriPleX) and is specialized in hybrid integration of multiple PICs in one module both with optical fiber interfaces as well as free space optical interfaces through micro optical components. www.phix.com



Albert Hasper (CEO) is an operational and technical executive with 25+ years of experience in international high-tech business-to-business industry. He was for 7 years the Managing Director of the Amtech Solar Companies. In 2011, he was appointed General Manager of Tempres Systems B.V. Before that, he was the VP of Global Operations at ASM International. Prior to the VP role, he served for more than 5 years as General Manager of ASM Europe and was world-wide responsible for the Vertical Furnace product line. Albert holds an M.Sc. and Ph.D. Degree in Electrical Engineering from the University of Twente. He has authored and co-authored over 25 scientific papers in various scientific journals. He is an inventor of 13 issued US patents in the areas of CVD & ALD deposition and Capital Equipment.



PhotonDelta is an ecosystem that researches, designs, develops, and manufactures solutions with integrated photonics technology. Connecting pioneers in the field with investors, and viable markets, PhotonDelta helps to take the industry forward with funding, investments and R&D roadmaps. PhotonDelta is located in the Netherlands but connects and collaborates throughout Europe. www.photondelta.com



Ewit Roos (CEO) has been the CEO of PhotonDelta Foundation since January 2018. His main responsibility is to realize the goals of the Dutch National Plan 'Integrated Photonics', to stimulate new activities and to maintain intensive contact with companies and industry players for expanding the ecosystem. He was Managing Director of PhotonDelta since 2014 and before that, since 2011, he fulfilled the role of Managing Director of BrightMove, an early-stage funding company for high-tech starters in the Brainport region. Aside from his role as CEO, Roos advises both national and regional governments and public bodies on early-stage (deep-tech) funding topics. Roos started his career with Waste Management Inc., where he was responsible for corporate affairs and business development in the Netherlands and in a later stage for the European electronics recycling division.



Pieter Klinkert (Fund Manager) has been the Fund Manager of PhotonDelta Foundation since September 2021. He is responsible of PhotonDelta's investment portfolio of companies active in integrated photonics. To further expand the ecosystem he searches new investment opportunities. In the first 15 years of his career, Klinkert held several entrepreneurial positions with a focus on general management, business development and fund raising. In 2019 he made a switch to fund and investment management in the venture capital world, where he had a strong focus on high tech ventures, especially photonics.



PhotonFirst aims to be the global innovation leader in integrated photonics sensing and OEM's partner of choice for advanced applications in aerospace, automotive, medical technology, high-tech, energy and infrastructure. Since 2006, PhotonFirst has been unlocking the power of the photon to measure temperature, strain, pressure and shape. PhotonFirst was the first company to use Photonic ICs (PICs) as the heart of their measurement solutions, making them scale well with volume allowing for low cost data generation. www.photonfirst.com



Daan A.J. Kersten (CEO), with masters' degree in Mechanical Engineering from TU Delft and Business Administration from Erasmus University's Rotterdam School of Business combined with Stanford University Graduate School of Business's Executive Program for Growing Companies, has created a solid basis for building deeptech scale-ups. After having co-founded industrial metal additive manufacturing equipment OEM Additive Industries, Daan is now CEO of PhotonFirst, expanding rapidly to a global player. In 2022 PhotonFirst is building a regional headquarters in North America to accelerate its growth.

COMPANY DESCRIPTIONS & BIOS

PHOTONIS



PHOTONIS is a global manufacturer of electro-optic solutions used in the detection of ions, electrons, and photons. We develop, produce, and market innovative sensors for detecting and amplifying very low levels of light, charged particles, and radiation. Our products are used in a wide range of applications from night vision to analytical instruments, and even in nuclear reactors and warships. When you partner with Photonis, you will receive a custom detector designed to meet the specified performance and sensitivity criteria. www.photonis.com



Claire Valentin (Chief Strategy Officer) is a double graduate engineer in optics and MBA. Claire spent ten years in French MoD to fund and manage R&D projects in electronic and optics. She followed her experience in telecoms business as product line marketing manager in Alcatel Optronics, then in Xray medical imaging and ophthalmic lenses. Skilled in Business to Business marketing in high value-added products, she was VP Marketing in Sofradir (now Lynred), leader in infrared detectors, during 5 years. She joined Photonis as Chief Strategy Officer, end of 2021.

PI



PI (Physik Instrumente) with its headquarters in Karlsruhe, Germany, celebrates 50 years of innovation and has built upon its position as the leading manufacturer of nano-positioning systems by pushing its engineering teams to become a leader in motion platforms for Laser material processing, Photonics, Semiconductor, and Life Sciences. With manufacturing sites in Germany, the United States, China, and Israel with over 1000 highly qualified employees around the world enables the PI Group to meet almost any requirement in the field of innovative precision positioning technology. All key technologies are developed in-house. This allows the company to control every step of the process, from design right down to shipment: precision mechanics, piezo ceramics, electronics as well as position sensors. www.pi.ws



Clifford Jolliffe (Head of Industrial Automation) has a passion for high precision motion systems for manufacturing with lasers. Cliff has been the chair for the British Science and Technical Facilities Council (STFC) assisting research institutes to partner with industrial companies. Using his three decades of experience in the automation market advocates him to promote and direct Physik Instrumente precision automation capabilities globally.



Posalux, founded in 1943, is a privately owned Swiss company with 100 employees located in Biel/Bienne and worldwide service and sales network with subsidiaries and independent agents. Posalux is a leading manufacturer of micro-machining solutions for mass production, based on three different technologies: Femto Laser, Electro-Erosion and Mechanical Machining. Main markets are automotive and electronics; followed by special applications for watch, medical and other industrial solutions. www.posalux.com



René Stoessel (CEO) joined the company 2002. He started his career in a pharmaceutical company and spent several years in industrial environment in different positions. He has a master in economics and computer science.

PRECITEC



Precitec Group is the worldwide innovation and market leader in the development and manufacture of components and system solutions in the field of laser technology and optical metrology. The challenges of our customers spur us on every day. Great changes are driven by technology. And technologies change the world. Our passion is to make the almost limitless possibilities of our fields of technology available to industry. As a value-oriented family business, our focus is on sustainable and independent development. www.precitec.com



Markus Kogel-Hollacher (Head of R&D Department) began his activities in the laser industry working for his MS degree at the Fraunhofer Institute for Laser Technology in 1994. Since then, the focus of his work is on the field of monitoring and control of laser processes. After earning his MS degree in physics in 1996 from the RWTH Aachen University in Germany, he joined Precitec Optronik GmbH continuing the work with the emphasis on transferring R&D results to industrial solutions. This work has been discussed extensively in several technical journals and presented in various conferences. In his position as head of the department R&D projects in the Precitec Group, he oversees national and international governmentally funded projects. Working together with RTD performers and end users, his guiding principle is to continuously increase the reliability and the use of process monitoring and process control devices in laser materials processing. In 2008, he obtained his Ph.D. at the Technical University of Berlin, Germany. Markus is founding member of Photinics21, member of the LIA since 2002, member of the SPIE since 2010. In 2012 and 2014, he was finalist of the European Innovation Award Laser Technology.



ProFound Corporate Recruitment is a niche Recruitment Company. Companies outsource (part of) their recruitment process to ProFound, so we become strategic partners. This means that we help our customers translate their business strategy into a long-term recruitment strategy first and develop a short-term operational recruitment plan afterwards. Next, we execute this recruitment plan as a member of our customers - HR organization. This means ProFound takes full control of your recruitment process and fill all your positions against reduced time & cost! The global labor market of today requires a Pro-Active Recruitment approach. Especially within the EPIC community, with many hard to fill positions, ProFound believes that preparing for the "day after tomorrow" is needed to become and stay successful. Together with EPIC members, we want to develop the ideal recruitment strategy based on expected industry developments and growth of your organization. We also execute recruitment scans (process, tools, people, KPIs) and describe the bottlenecks in your current recruitment process including writing recommendations to make improvements. This way you can focus on your company and your technology while ProFound takes care of your Recruitment. www.profoundresources.nl

COMPANY DESCRIPTIONS & BIOS



Frank Wolfs (Managing Director, Founder and Owner) is an entrepreneur with passion for recruitment related to technology driven people and companies. For over 20 years, Frank has been working in technical oriented international companies and institutes. Frank possesses international working experience with top technology firms as well as with top engineers and scientists. His communication skills and professional knowledge, both general and technological, are capable to perform at C-level. To perform on Strategic, Tactical and Operational levels in an International (Competitive) Recruitment environment for EPIC members is one of Frank's main interests and goals for the near future.

He also has heavy industry experience in sectors like Semiconductor, Medical Devices, Healthcare, Automotive, Consumer Electronics, Research, Food, Optics, Recruitment and Human Resources, where Photonics captured Frank's special attention since 2015 when he set up the entire recruitment operation for a very successful start-up on integrated Photonics back in NL. ProFound became member of EPIC to help member companies recruit on a global scale and develop tailor made solutions that have a long-term impact.



QiOVA is a French high-tech company specialized in the field of laser and photonics. Our team has been pioneering the development of digital optical technologies for industrial laser applications since 2011. QiOVA designs innovative laser material processing solutions, leveraging the patented multibeam technology powering our product line VULQ1 to uniquely combine superior precision and throughput. We offer unique multibeam laser marking solutions to enable individual product traceability. Applications encompass anti-counterfeiting, customer engagement, brand protection or tracking and tracing. We are also active in the micromachining space, where our multibeam technology is applied to scale up productivity of fine processing like surface texturing or micro-drilling. Our team proudly enable the manufacturing of positive innovation products in sectors as varied as industry, packaging, medical and luxury goods. www.qiova.com



Florent Thibault (CEO) worked as Product Line Manager of Industrial Picosecond Lasers lines for Coherent in Germany, where he had global ownership of market-leading product lines like HyperRapid NX or Rapid NX. Florent previously worked for Teem Photonics (Grenoble, France), the market leader in passively Q-switched laser business. Florent held various management roles, evolving from technical responsibilities towards business development management. Florent holds a PhD in laser and material sciences from University Paris XI, France and a MsEng degree in Photonics from the Institut d'Optique Graduate School (IOGS), Palaiseau (92), France.



QS LASERS is a manufacturer of sub-nanosecond and picosecond diode pumped lasers. From the begging main activity of QS Lasers includes development, series production and sales of laser systems for medical and industrial OEM's. Company specializes in series production of advanced short pulse DPSS, passive and active Q-switched air-cooled lasers. The choice of different wavelengths (1064 nm, 1053 nm, 1030 nm, 1342 nm, 671 nm, 447 nm, 880 nm, 440 nm etc.) is widely used in applications like scientific research, medical equipment manufacturing, precision measurement, radar communication, material processing, process control, online detection, and many other fields. QS Lasers newest product portfolio consists of:

Passively or Actively Q-Switched 880 nm True Three Level Nd dopped Mini Lasers

Gain-Switched 1064 nm Picosecond Mini Lasers with duration of 50-100 ps (optional 20)ps, No Semiconductor Modulator (SESAM), no Mode Locking. www.qslasers.com



Gintas Jakubenas (CEO) is the co-founder of QS Lasers and owner of mother company Optonas. Gintas has 24 years of experience in Photonic product manufacturing. Main expertise in Thin Film Coatings for Laser Industry. Gintas started studying Physics at Vilnius University in 1998 and professional career take up in this year as well. Work experience started from Engineer to CTO and founding own optical coatings company Optonas in 2009. In 2018, QS Lasers was founded as a startup from Optonas and Gintas Jakubenas become first CEO.



Quantune Technologies is a Berlin-based start-up focused on biomedical sensors based on mid-infrared lasers. Quantune Technologies develops Tunable QCL-based Micro Spectrometers for Industrial and Medical Applications. www.quantune.com



Refined Laser Systems is a high-tech startup from the University of Muenster (Germany). Refined's patented fiber-based tunable picosecond laser technology features a fast switching speed and robustness of the systems, which, in addition to a high level of automation, offers a real technological advantage over existing systems. This technology enables various new applications, e.g. in tumor diagnostics based on nonlinear microscopy or integrated single-photon generation for quantum computing. www.refined-lasers.com



Tim Hellwig (General Manager and Co-founder) holds a PhD in physics from the University of Münster (Germany) and is an expert on ultrashort-pulsed fiber lasers with over 10 years of experience in the field. After successfully attracting funds for a technology transfer project and developing the core Refined Laser System technology at the University of Münster, he co-founded Refined Laser Systems in 2019. Refined Laser Systems has since then been supplying the photonic industry and researchers with robust fiber-based laser systems for applications ranging from tumor detection or pharmaceutical research to single-photon sources for quantum computing.



RP Photonics offers advanced simulation and design software, technical consultancy, and last not least the most powerful digital marketing platform in photonics. The flagship software product is RP Fiber Power, the leading software for the fiber amplifier and laser design, including even ultrafast laser systems, and of course passive fiber optics. Other software products are suitable for laser resonator design, ultrashort pulse propagation and multilayer coating design. The RP Photonics website, containing the RP Photonics Encyclopedia and the RP Photonics Buyer's Guide, belongs to the most popular ones in photonics worldwide and functions as an effective digital marketplace, bringing together buyers and suppliers. www.rp-photonics.com

COMPANY DESCRIPTIONS & BIOS



Rüdiger Paschotta (Founder and Managing Director) is the Founder and Managing Director of RP Photonics and is well known for his famous RP Photonics Encyclopedia (www.rp-photonics.com/encyclopedia.html). His main offers are powerful digital marketing in photonics (using the buyer's guide which intimately connected with the encyclopedia) and design and simulation software in photonics. Besides, he offers technical consultancy and tailored staff training courses.



SCIL Nanoimprint Solutions offers high-volume production solutions for complex nanostructures on large wafers at low cost and very high quality using a unique and proprietary nano-imprint lithography technology (SCIL). Many products like smart phones, smart glasses and cars require high-performance optics for sensing and vision applications. These so-called nano-photonics are difficult to manufacture using conventional lithography techniques because of expensive tools, complex processes, and low yield. With our combination of imprint equipment, imprint materials and process know-how SCIL Nanoimprint solutions offers robust processes enabling nanometer resolution patterns on wafer areas up to 300 mm and on a large variety of wafer materials. It can be used to make patterns with feature sizes down to less than 10 nm and overlay alignment below 1 μm . www.scil-nano.com



Rob Voorkamp (CEO) holds masters in Mechanical Engineering as well as Business Innovation. Throughout his career, Rob held several positions in project management, marketing and business development in different types of industry. His business development activities involved licensing, technology acquisition and M&A in high-tech industries. In 2015, Rob started SCIL Nanoimprint solutions together with several key inventors.



SENRORICS is a start-up originating from the University of Technology Dresden commercializing an optical sensor solution for near-infrared (NIR) spectroscopy based on organic electronics. This proprietary technology allows low-cost and miniaturized NIR-spectroscopy integrated circuits with high performance. This has been proven by ZEISS, who is a strategic investor in SENRORICS. SENRORICS can deliver unique solutions for a multitude of measurement and detection problems in industrial applications. On top, for the first time, NIR-spectroscopy can be applied in consumer products because price and size fit the corresponding requirements. Even smartphone compatible integrated circuits are possible to positively impact everybody's life with material sensing. www.senorics.com



Ronny Timmreck (CEO) received his diploma degree in physics from the University of Technology Dresden, Germany and his PhD for a work on organic solar cells in the group of Prof. Karl Leo renowned for the organic electronics start-ups Novald and Heliatek. Ronny founded his first start-up at the age of 23 and developed this company to a leader in its branch. In 2016, he took the lead in the start-up project SENRORICS. He has been CEO of SENRORICS since the company's foundation in 2017 and in that position raised more than 10 M€ venture capital.



Sentea develops and manufactures fiber optic sensor interrogators for structural health and condition monitoring of civil infrastructure and industrial assets. Fiber sensors are very thin and lightweight, and are resistant to corrosion, electromagnetic interference, extreme temperatures and lightning strikes, and safe to use in explosive environments. They therefore outperform electric sensors in many applications, especially in harsh environment. Using silicon photonics Sentea develops compact and cost-effective interrogators, making fiber sensor solutions cost competitive with electric sensors. Sentea is a spin-off from Ghent University and Imec and is based at the technology park close to Ghent, Belgium. www.senteatech.com



Karsten Verhaegen (CEO) holds a master's degree in microelectronics from KU Leuven and a master's in business administration (MBA) from HEC Paris. He has 20 years of experience in bringing new technologies to market and managed global businesses in highly competitive high-tech industries. Before joining Sentea he was co-founder and COO of Caliopa, a silicon photonics startup making transceivers for datacom and telecom applications, acquired by Huawei. Earlier in his career he held general management and business development positions at both Thomson (now Technicolor) and Alcatel (now Nokia). He currently operates from Belgium and for previous positions he was also based in Paris and New York.



SILINA is a deeptech startup in microelectronics offering B2B solutions to curve imaging sensors, from unitary products up to industrial scale. Curved imaging sensors are the next major innovation for the imaging industry, unlocking hardware limitations that no software can solve, and enabling a whole new generation of vision systems. They bring drastic improvements on four key fields: increase of the image quality and detection capability, and reduction of cost and bulk of cameras. Silina has been developing a scalable curving process for sensors produced by traditional sensor manufacturers, that can be adjusted to various types of sensors (from UV to IR, CMOS & CCD, FSI, BSI, and others), at various scales (single chip, multi-chip, wafer-level), and allows to reach various shapes (spherical, aspherical, freeform, and custom shapes on demand). www.silina.io



Michael Bailly (CEO and Co-founder) is the CEO and Co-founder of SILINA. He holds an Engineering degree in physics from Ecole Polytechnique and a Master's in Management of Technology from UC Berkeley. Most of his professional career has been spent managing and setting up First-Of-A-Kind industrialization projects in long cycle technological industries. From 2008 to 2020, he has worked as project director at Areva and Air Liquide, leading the automatization and the construction of innovative plants in France and Europe. In 2021, he founded SILINA with his co-founder, CTO and inventor of SILINA's technology.

COMPANY DESCRIPTIONS & BIOS



SMART Photonics, located in Eindhoven, The Netherlands, is a foundry offering production services for Indium Phosphide based integrated photonic circuits (PICs). We are an independent pure-play foundry, using our knowledge, experience and equipment to produce photonic components for our customers, based on their designs. We offer the complete production process from epitaxial growth and re-growth, processing, polishing and dicing of wafers into chips. As an independent Pure-Play foundry we support our customers from the proof of concept phase up to and including full production. Indium phosphide chips are proving to be the best choice in many applications, ranging from next generation low-power consumption data-centers to a variety of sensing applications for structural monitoring and medical diagnostics. Integrated photonics also plays an increasingly important role in the aircraft industry, air quality monitoring, autonomous driving and in ultra-secure cryptography. At SMART Photonics, we work with highly skilled, experienced and innovative professionals, eager to work on new and exciting integration technologies. www.smartphotonics.nl



Johan Feenstra (CEO) joined SMART Photonics as CEO in 2019 after having been on the Advisory Board for about 3 years. Before SMART, Johan co-founded Liquavista in 2006 and is co-inventor of electrowetting displays. At Liquavista, he has had a broad set of roles, ranging from CEO, to CTO and Program Management. Together with his team, he raised four rounds of venture capital for Liquavista and sold the company twice, in both cases to Fortune 500 companies (Samsung Electronics and Amazon.com). Johan received his PhD in Solid State Physics from the Rijksuniversiteit Groningen in the Netherlands in 1997. He currently serves on the Advisory/Supervisory board of 3 other scale-up companies.



Solaris Optics, founded in 1991, is a precision optics company with almost 30 years' experience in the field. Solaris Optics is a medium-sized ambitious enterprise employing over 70 people and having modern machines and laboratory equipment. The company is located on its own premises of 4744m², in a production building with an area of 1620m² and produce optics and deliver optical solutions to partners. The technological capabilities of Solaris Optics include a full production cycle of optical elements from almost all types of optical glasses, quartz glasses, optical ceramics and crystals, starting from cutting raw material in blocks or rods, through all standard technological processes such as milling, grinding, polishing and coating optical and framing them and precise assembly of optical systems. Solaris Optics produces precise optical elements for general applications, as well as specific elements and systems, parameters determined by the customer. Solaris Optics also manufacture laser electro-optical modulators. www.solarisoptics.eu



SONNENBERG HARRISON



Sonnenberg Harrison has established itself as one of Europe's innovative intellectual property and technology law firms. Its attorneys have science and/or law degrees and are active in most fields of technology. The firm has advised startup companies and investors in the creation of new IP-based businesses together with technology transfer offices from universities and research institutes. It supports small and medium-sized companies by offering outsourced IP management services, particularly in the fields of physics and engineering. Its attorneys have experience working in patent offices and companies and the advice provided is business-focused to support its international client base. www.sonnenbergharrison.law



Robert Harrison (Managing Partner) is an experienced business executive as well as qualified intellectual property attorney with over 30 years' experience in advising clients at the interface of technology management, business development and intellectual property. His focus is on developing intellectual property portfolios and commercialisation strategies for start-ups and small and medium-sized businesses, particularly in the field of semiconductors, photonics, electronics, biophysics, quantum technology and software. Robert has advised investors on legal aspect of intellectual property and its value, as well as on third party infringement risks.



son-x is a leading-edge technology and component supplier in the field of ultra-precision machining. The technology developed and commercialized by son-x enables direct ultra-precision machining of steel, which is conventionally not possible. We are specialized on high precision custom metal mirrors for space or high tech applications with up to 1 m in size with not only symmetric, but also off-axis or freeform surfaces. Furthermore, we manufacture optical mould inserts for injection moulding of lenses for a variety of applications, such as automotive lighting, camera lenses, sensors, AR/VR, etc. son-x also supplies high precision plastic lenses.

www.son-x.de



Benjamin Bulla (Managing Director) studied mechanical engineering focusing on production engineering at the RWTH Aachen. He worked as a research assistant at Fraunhofer IPT in the field of ultra precision machining and optics manufacturing from 2007 till 2013. One of his core areas is the ultrasonic assisted diamond turning technology. From 2009 until 2013, he was member of the Scientific and Technological Board of the Fraunhofer Gesellschaft (WTR FhG). In 2011, he founded son-x GmbH and acts since as managing director of the company. son-x focusses on ultra precision manufacturing of optical and high precision components as well as equipment manufacturing. The company has grown profitably under his lead since starting active business in mid 2012, expecting more growth in the upcoming years.



Specim is a globally leading supplier in spectral imaging. As a true pioneer and forerunner in this field, we celebrated our 25th anniversary in 2020. Our international team of 70+ professionals, with expertise in optics, electronics, software, and machine vision, serves the market with the broadest range of hyperspectral cameras, imaging spectrographs, systems, and accessories. We are known

COMPANY DESCRIPTIONS & BIOS

as a trusted partner with products and support of superb quality and cost-efficiency. With our strategy, "Spectral imaging made easy," our customers can rely on the scalability of our technology and products. It will allow our customers to keep improving the performance and competitiveness of their solutions and develop application solutions quicker and with less technical skills. www.specim.fi



Tapio Kallonen (CEO) is the CEO at Specim, Spectral Imaging Oy Ltd, the global leader in spectral imaging devices and software based in Oulu, Finland. Tapio is also a member of Global Management Committee at Konica Minolta Sensing Business Headquarters. Tapio holds Master's Degree in Electronics and Electrical Engineering from Aalto University (Finland). Tapio has completed Executive Training Programme at SOAS University of London and Waseda University (Japan).



SPIO Systems has a new technology platform (SPIO) that enables guiding and processing of light in advanced, complex structures, applying a production technology that allows mass production of small-size optical devices with photonic integration by using Nano Imprint Lithography (NIL) processes - a cost effective method. SPIO is Stacked Planar Integrated Optics enabled by integrating optical structures, components and features on planar wave guiding wafers. Stacked together on wafer level, those wafer stacks consist of hundreds of optical modules that are separated into individual modules. Our technology cover true integration of reflective, diffractive, refractive, filter optical features into single module. www.spiosystems.com



Henrik Madsen (CEO) holds a Master degree in optics and mechanical engineering. He worked 10 years in Ibsen Photonics with R&D in diffractive optics and another 10 years in Kaleido Technology with product development and management in ultraprecision metal optics. Henrik established Millpond Optics as CTO and lately SPIO Systems with ambitions on building a new trendsetting micro-optics production platform running on the same wafer level revolution as the electronics business has been running on.

STENSBORG



Stensborg is a privately held company located in Roskilde, Denmark 30 minutes from Copenhagen Airport. We have served our clients for nearly 20 years producing Roll-to-Roll & Roll-to-Plate UV-nanoimprint lithography production equipment as well providing NIL production services, design mastering and volume production. Our skilled team excels in the full production cycle of nano and micro surface relief creations as well as imprinting production. We have our own range of proven machines, prepress materials and resin chemistry. www.stensborg.com



Jan Stensborg (CEO) studied at the Holographic Laboratory, DTU (Technical University of Denmark) and went on to establish Stensborg A/S in 1997. He has more than 20 years' experience of working with the industrial mass production of functional surface structures, HOEs and optical elements. Jan is inventor of several patented NIL related technologies. He is experienced in all phases of product development and delivery to large companies, as well as using a variety of staffing options, process frameworks and technology stacks. His specialties include: Performance management, technology evaluation, financial planning and analysis, project management, large volume production of nano- and micro structures, holographic technologies, clean room construction and management.



SUSS MicroOptics manufactures high-quality refractive and diffractive micro-optics on 200mm wafers for applications in automotive, photolithography, fiber optics, silicon photonics and more. Our production facilities in Neuchatel, Switzerland, exemplify excellence and our new volume production line imprints micro-optics for automotive lighting. Suss MicroOptics is ISO 9001:2015 and IATF 16949:2016 certified and is a subsidiary of Suss MicroTec SE. www.suss.ch



Reinhard Voelkel (CEO) received his Diploma in Physics in 1989 and his PhD in 1994 from the University of Erlangen-Nuernberg, Germany, where he worked at the Applied Optics Institute (Prof. Adolf W. Lohmann, Prof. Johannes Schwider) on holographic optical elements for optical interconnects and backplanes. After his PhD, he joined the Institute of Microtechnology (Prof. René Dandliker, Prof. Hans Peter Herzig) at the University of Neuchatel, Switzerland, working on micro-optics for biosensors, optical interconnects, photolithography systems, miniaturized imaging and camera systems. Reinhard Voelkel is co-founder and CEO of SUSS MicroOptics SA, a leading supplier of micro-optical components and systems located in Neuchâtel, Switzerland. He is a member of Sand Hill Angels, the German Optical Society (DGaO), the Swiss Optical Society (SSOM), the European Optical Society (EOS), Senior member of Optical Society of America (OSA) and SPIE Fellow.



Swissphotonics is an association with the goal to support the innovation forces by bringing academic and industrial partners together in the field of photonics. Towards this goal we organize workshops and we are networked on Swiss and international level and we provide access to this network for our members. www.swissphotonics.net



Christian Bosshard (Managing Director) received his degree in Physics (1986) and his doctorate (1991, Silver medal award) from ETH. From 2001-2021, he was working at CSEM, first as Section Head and then as Vice President and Head Photonics. Since 2013 he is Managing Director of Swissphotonics. Christian is a Fellow of Optica, Board Member of EPIC, and Member of the Board of the University of Basel. **Christian Bosshard is a member of the EPIC Board of Directors.**

COMPANY DESCRIPTIONS & BIOS



Sy&Se is a start up from the Haute Ecole Arc Ingénierie (HE-Arc) specialized in joining technologies of micro and macro systems. In many manufacturing processes, assembling is an essential step and it contributes to obtaining a high-quality and efficient finished product. Since mastering the technology and the manufacturing costs of each step is imperative for companies, the SY&SE propose, building up on a major scientific discovery, a new ICB (Impulse Current Bonding) binding process, which combines cost-effective and robust assembly of glasses on various metals, glasses on silicon, silicon on fused silica, sapphire on silicon and glasses, and also stacks of these materials. High quality of the bond interface obtained with the innovative ICB technique is particularly well suited for photonic systems based on integration of optical compounds with cleanness, precision and stability (covalent bonds). Related to this aspect, hermeticity between adjacent surfaces or for device encapsulation required for efficient performance and moisture prevention is a serious advantage. Other assembly configurations with more common optical waveguide materials such as for example InP, GaAs, or GaN on glasses are also possible (by the use of intermediate evaporated thin layers). www.syandse.ch



Sebastien Brun (CEO) is the founder and CEO of the start-up Sy&Se specialized in permanent bonding thanks to the new technology Impulse Current Bonding (ICB). Before creating his start-up, he was the project leader of industrial research linked to Medtech, biomedical, MEMS or watchmaking sectors as well as responsible of physical-chemical analysis of the particle accelerator department at the Haute Ecole Arc Engineering institute. Within the framework of his research, he was the principal inventor of the ICB technology. Firstly graduated in electromechanical in Yverdon, he received his engineering degree in the Haute Ecole Arc in Microtechnology specialized in surface treatments. He was awarded by the Swiss Innovation Agency in 2016 for the entrepreneurship concept of the ICB technology. His activities in Sy&Se are focused on the development of ICB assembly for glass-metal or glass-ceramic components like SOI systems. Also active in the academic research, he develops news applications in biomedical and microelectronic regional industries.



Tematys provides a complete range of services to companies and public organizations in the fields of optics, photonics, sensors and material Engineering. Our clients are companies of any size, from international groups to SMEs and start-up. We have also developed a special expertise in R&D valorization and marketing of emerging technologies for Research Organizations and Laboratories. We provide strategic views on optics and photonics markets for publics for clusters and publics agencies. www.tematys.com



Benoît d'Humières (Partner) graduated in Physics and Chemistry from the ESPCI Paris – PSL and Sorbonne University. He is an expert in Optics, Electronics and Instrumentation for industrial and research applications. In 1991, after some years of research at the University of Florida, he became an innovation consultant. He has run many marketing and technological studies for companies of any size and Research institutions. Benoît has also taught the marketing of photonic technologies at the Institut d'optique-Graduate School (Palaiseau, France).

THORLABS



Thorlabs, a vertically integrated photonics products manufacturer, was founded in 1989 to serve the laser and electro-optics research market. As that market has spawned a multitude of technical innovations, Thorlabs has extended its core competencies in an effort to play an ever-increasing role serving the Photonics Industry at the research end, as well as the industrial, life science, medical, and defense segments. The organization's highly integrated and diverse manufacturing assets include semiconductor fabrication of laser diodes, optical amplifiers, lithium niobate modulators, quantum cascade/interband cascade lasers, and VCSEL lasers; fiber towers for drawing glass optical fibers (silica, fluoride, tellurite, and hollow core); MBE/MOCVD epitaxial wafer growth reactors; extensive glass and metal fabrication facilities; advanced thin film deposition capabilities; and optomechanical and optoelectronic shops. www.thorlabs.com



Bruno Gross (General Manager) studied physics in Munich and Vancouver. He received his Ph.D. in physics from the Ludwig-Maximilians-University Munich while working as a researcher at the Max-Planck-Institute for Quantum Optics in the group of Prof. T.W. Hänsch. Bruno started his business career as a management consultant. Afterwards, he held various senior management positions, both in the photonic industry as well as in large educational, non-profit organizations. Currently, he is heading Thorlabs Germany.

USHIO



USHIO Europe has, since 1964, earned a worldwide reputation as a specialist in industrial light sources, from ultraviolet to infrared and everything in between. Our products can be found in locations as diverse as your future smartphone or the BepiColombo Science Mission to Mercury. Whether it's by entertaining a cinema audience, simplifying any medical procedure while being doctor's right hand or disinfecting ballast water for cleaner seas, we are proud to contributing towards making people happier and healthier. Working in a wide range of industries for more than fifty years has given us a unique combination of experience and technical expertise. Everything we make is developed in response to a client's individual requirements. Our flexible production process allows us to provide tailor-made solutions that cover everything from a light source to systems and software. www.ushio.eu



Ardan Fuessmann (Sales Director) joined USHIO Europe in the beginning of 2017. In his role as Sales Director Sold State Lighting - EMEA, he is responsible for the sales and business development of USHIO Opto Semiconductor products, laser diodes and LEDs, at the EMEA market. He studied communications engineering in Nuremberg, Valencia and Xi'an, followed by an MBA in Kaiserslautern, Germany. He joined USHIO with a wealth of knowledge, having accumulated sales experience focusing on technically complex products, spanning over 10 years.

COMPANY DESCRIPTIONS & BIOS



VIGO Photonics is a European manufacturer of semiconducting materials and instruments for photonic and microelectronic, specialized in MWIR and LWIR detectors and modules, produced with the use of internally-developed technology. The mission of VIGO Photonics is to provide fast and convenient, easy to use IR detectors at any wavelength from 2 to 16 μm , reaching fundamental BLIP limits without cryocooling. Modules are available with different spectral response ranges, time response characteristics and gains. VIGO Photonics has a complete front – end and back- end production line for semiconductor high capacity instruments – from epitaxy of II-VI and III-V groups, through detector chips, lasers and their assembly and integration with electronics. The company is constantly expanding its market reach and now has its subsidiaries in Taiwan and the USA. www.vigophotonics.com



Adam Piotrowski (President) is a graduate of Warsaw University of Technology (Politechnika Warszawska) in 2002 with a master's degree in electronics engineering. He also received a Ph.D. degree in technical sciences engineer at the Military University of Technology (Wojskowa Akademia Techniczna) in 2008. He has worked at VIGO since 2002, he served as Specialist in MOCVD laboratory and Manager of MOCVD Lab. From 2008 Adam worked as Head of Detector's Department. In January 2015, he was appointed as a President of the Board and vice chairman of Polish Technological Platform on Photonics. In February 2018, he became the president of the Polish Technological Platform on Photonics. He is member of multiple advisory councils to EU, Polish and local government in the area of Quantum technologies, Photonics and smart specializations. Since 2021 he is a member of the board of EPIC. He is the author of many publications on methods of manufacture and applications of infrared detectors. He is working with Polish photonics to establish a collaborative platform supporting transfer of innovation from science to industry and collaboration between photonics companies. One of such initiatives in the Academy of Photonics is conducting workshops on various important issues, such as, sales of photonics products, IP in photonics or resource sharing. **Adam Piotrowski is a member of the EPIC Board of Directors.**



VIGO Ventures - shedding light on the future by investing in photonics. VIGO Ventures is an early-stage (pre-round A) investor for photonic and deep tech companies that brings hands-on business approach and possible follow-on investment up to €10mln We have a global technology leader and an experienced private equity investment group backing us up. Our two strategic partners are VIGO Photonics and Warsaw Equity Group. VIGO Photonics (<https://www.vigo.com.pl/en>) - a world leader in high-tech solutions - the most advanced mid-infrared photonic detectors, modules dedicated to these detectors and semiconductor materials. Warsaw Equity Group (<https://warsawequity.com/>) - a privately held investment company with over 20 years track record of successfully supporting business ventures both by investing their own capital, as well as by providing ongoing operational and strategic support for active investment projects. www.vigo.ventures



Marek Kotelnicki (Managing Partner) is an active private investor in early-stage photonics and deep tech companies that loves to network and learn. Marek is a shareholder and member of the board in international technology companies. He is a juror and mentor in international technology events like MIT Innovators under 35, European Photonics Venture Forum, TechTour & TechTour Photonics, AdMaCom| INAM, Podim. Marek has more than ten years of experience in working with scientific projects from around the world. He advised hundreds of technology companies from over 40 countries on the subjects of technology commercialization, raising capital and business development. He graduated from two-cycle studies at the Warsaw School of Economics (International Economic

Relations and Management) and scholarship holder at Ryukoku University in Japan, (graduated from Japanese-Asian Studies - JAS). In 2012, Marek co-founded Internest, a creative and consultancy agency for the high-tech sector and as Internest's CEO cooperated with scientists and innovators globally, advising them on the commercialization process and helped create business and investment opportunities. In 2016, he co-founded and became President of the Center for Innovation and Technology Commercialization Foundation (CIKT) that organized the global campaign "Bringing tech&science closer to people" conducted under the auspices of UNESCO - with the reach of over 88 million people and 137 countries it was the first and the biggest digital event promoting tech&science projects. In 2015 and 2016, he scouted for Polish technologies and verified them for a TV documentary series ("Inventors of the future") made for Canal+ Discovery about Polish startups, scientists and innovators. Since 2018, he is the Managing Partner in VIGO Ventures that is an early-stage (pre round A) investor for photonic and deep tech companies that brings hands-on business approach and possible follow-on investment up to €10mln.



VLC Photonics is a Spanish company, part of the Hitachi High-Tech group, devoted to providing services and solutions related to the development and introduction to market of systems based on photonic integrated circuits (PICs). Key focus areas are techno-economic feasibility studies and consultancy, in-house PIC design, characterization and test, and full PIC prototyping through external manufacturing and packaging/assembly partners. VLC Photonics, as a fables design house, works with multiple foundries embracing the generic integration model, and makes use of these fabrication platforms to always chose the most suited process (Silicon-on-insulator, Silica/PLC, SiN/TripleX, InP/GaAs) for the application at hand. VLC Photonics also works closely with foundries to contribute in the building of their Process Design Kits (PDKs), which enables access to state of art technologies. www.vlcphotonics.com



Paulius Naujalis (Operations Manager) received an M.Sc degree in Physics of Vilnius University in Lithuania in 2014. With over 10 years of products introductions to market experience in Lithuania, UK and Spain, he has developed and commercialised components and subsystems for industrial, medical, space and defence applications leading multidisciplinary teams of software, mechanical, optical and electrical engineers for privately and European Union funded projects.

COMPANY DESCRIPTIONS & BIOS



Vortex Optical Coatings Ltd is in the middle of the UK in Hinckley near Leicester. We design and manufacture optical coatings and filters for scientific instruments and sensing. A particular area of expertise is infra-red filters for applications such as gas detection, process monitoring in the food drink and chemical industries, plastics separation and an almost daily growing list of applications! The company also has a 'rapid prototype shop' where it can design and manufacture brand new filters in consultation with its customers, in as little as 2 weeks. State of the Art deposition technologies are used in production. The company also makes dichroic filters and beam-splitters, anti-reflection coated windows in volume and a range of infra-red Linear Variable Filters (LVF). www.vortexopticalcoatings.co.uk



Ian Reilly (Managing Director) holds a BSc in Physics from Nottingham University, UK. He has expertise in the design and manufacture of optical coatings using a number of different deposition technologies. Before starting Vortex, Ian worked for Pilkington Glass Ltd, Vinten Electro-Optics, Coherent Inc and CVI Infra-Red Optics, and during his career he has gained valuable experience taking ideas from development to successful full-scale production. He believes this is a very exciting time to be involved in the photonics industry which has a key role to play in solving many of the world's current challenges.



Workshop of Photonics (WOP) is a privately-owned company active in femtosecond laser micromachining. The company develops solutions and sells microfabrication workstations, provides contract manufacturing as well as software development services. Having well equipped industrial application laboratory, WOP can accommodate even the most challenging tasks from clients. Since 2003, WOP has been working on projects connecting scientific inventions with the market needs. Company's growth is fueled by a culture of open innovation and partnership with the local laser sector companies and worldwide partners. Clients range from research centers and laboratories to industrial companies active in the fields of semiconductors, medical, automotive and telecommunication. www.wophotonics.com



Gintas Šlekys (CEO) graduated and gained a PhD degree in Physics from Vilnius University, Lithuania. After 6 years of research contracts in Physikalische Technische Bundesanstalt, Germany and 3 years in Lille University and France Telecom, he founded Altechna and later on Workshop of Photonics (Altechna R&D) and devoted his time to the business development of both companies, currently fostering businesses related to ultrashort laser applications for industrial customers.



XRnanotech is the leading Swiss manufacturer of highest-quality nanostructured optical elements. Our mission is to develop and fabricate the most innovative nano-optics that perform best in terms of resolution, efficiency, stability and design. We offer optical components such as precise and high aspect-ratio Fresnel zone plates, nanostructured test targets for microscopy as well as 2D and 3D computed tomography (CT), customized diffractive optical elements (DOEs), flat optics and silicon nitride (SiN) membranes. Incorporated in 2020 as a Spin-Off company from the X-ray optics and applications group at the Paul Scherrer Institut, we have a long-standing experience in designing and nanostructuring optical components. In order to meet our customers' needs, we offer a variety of tailored solutions ranging from one-off items to serial production and fab services. www.xrnanotech.com



Florian Döring (CEO and Founder) is CEO and founder of an award winning Swiss deep-tech company that develops and fabricates innovative diffractive optical elements. He obtained a PhD from the University in Göttingen and went for a PostDoc to the Paul Scherrer Institut in Switzerland. Following his entrepreneurial mindset, he continued to study for an MBA and started the company XRnanotech. In his professional past, he developed and fabricated high-quality X-ray optics with record-breaking resolution. Now, he is determined to bring such optics to market with a dedicated team of scientists, engineers and businesspersons in the startup company XRnanotech.



WZWOPTICAG has designed and manufactured ultra-high-end precision, quality optics solutions for a global customer base for around 60 years. Specializing in 'build to print' manufacturing, from start to finish, WZWOPTICAG has the unique capability of offering customers an integrated 'one-stop' source for all their optical requirements including IBS coating in-house. 'Super-polished' or laser quality polished substrates are ideal for use as low-loss laser mirrors, where thermal stability, surface scatter and high laser damage thresholds are key requirements. Magnetorheological Finishing (MRF) - Obtain high-precision surfaces ($\lambda/50$) and Correction of transmitted wavefront (windows, phase plates, entire system correction on one surface). WZWOPTICAG provides opto-mechanical engineering and system prototyping services. WZWOPTICAG offers a high level of specialized expertise to all phases of assembly fabrication, from opto-mechanical concept and design, through component construction, IBS coating, final assembly and testing. www.wzw.ch



Claudio Meli (CEO and Finances) completed his studies in 1995 specializing in Finance. He then spent the next 13 years as a financial consultant performing Company audits and providing financial advice and guidance. Wanting to get closer to industry, in 2007 Claudio Meli took up a CFO position in the private sector. After gaining numerous years of experience, he joined WZWOPTICAG in 2011 as CFO. The Board of Directors developed a new business strategy for WZWOPTICAG and it was decided to appoint Claudio Meli as the CEO in 2012.

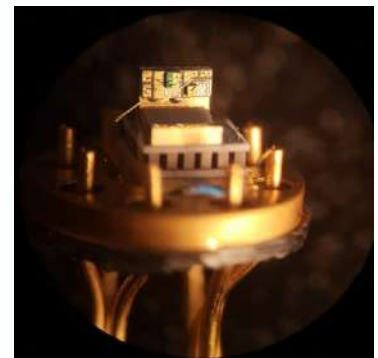
CENTER FOR PHYSICAL SCIENCES AND TECHNOLOGY (FTMC)

is the largest scientific research institution carrying out unique fundamental research and technological development works in scientific fields of laser technologies, optoelectronics, nuclear physics, organic chemistry, bio and nanotechnologies, electrochemical material science, functional materials, electronics, etc. in Lithuania.

OUR VISION: Generation and capitalization of scientific knowledge in applied physics, chemistry, and technological sciences promoting thus the evolution of high-tech industry.

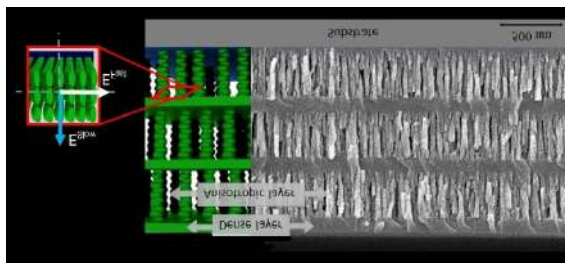
The activities of the Department of Optoelectronics include:

- Development and MBE growth of QCL wafers using III-V group materials;
- Development of THz imaging systems;
- Creation of optical sensing solutions.



The activities of the Department of Laser Technologies include:

Optical coatings

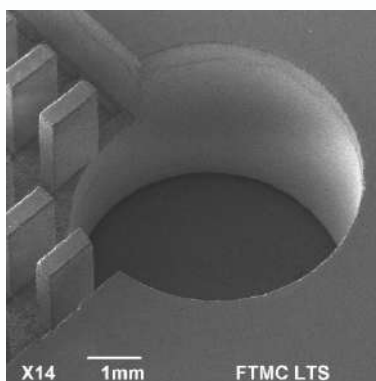


New concepts for lasers



Technologies for precise material processing, utilising ultrashort pulse lasers:

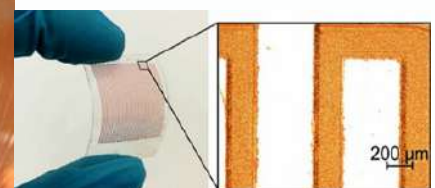
Glass separation and milling



Precise and efficient metal ablation



Laser-assisted technologies for selective metal plating



EPIC PROMOTES THE DEVELOPMENT
AND COMPETITIVENESS OF THE EUROPEAN
PHOTONICS INDUSTRY AND ITS MEMBERS

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