

EPIC Technology Meeting on Photonics for Bio and Life Science Applications at PARK INNOVAARE

26-27 September 2023. Baden, Switzerland

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Schedule

Monday, 25 September 2023

19:00 – 22:00 Pre – Event Dinner @ Hotel Du Parc (address: Römerstrasse 24, 5400 Baden).

Tuesday, 26 September 2023

7:30	Departure by the bus transfer from Hotel Du Parc (address: Römerstrasse 24, 5400 Baden)
07:40 - 08:00	Drive
08:00 - 09:10	Visiting Dectris (address: Täfernweg 1, 5405 Baden, Switzerland)
09:10 – 09:25	Drive
09:25 – 11:00	Visiting IFTest (address: Schwimmbadstrasse 43, 5430 Wettingen, Switzerland)
11:00 – 11:30	Drive
11:30 – 12:45 12:45 – 13:00	Visiting Swissneutronics (address: Brühlstrasse 28, 5313 Klingnau, Switzerland) Drive to PARK INNOVAARE
Official agenda	a:
12:30	Departure by the bus transfer from Hotel du Parc to PARK INNOVAARE (optional).
13:00 – 13:50	Registration & networking lunch @ PARK INNOVAARE, Auditorium building (address: deliveryLAB, 5234 Villigen, Switzerland).
13:50 – 13:55	Welcoming word by EPIC – Antonio Castelo, Photonics Technologies Manager (Spain / Europe)
13:55 – 14:00	Welcoming by PARK INNOVAARE – Robert Rudolph, CEO (Switzerland)
14:00 – 14:30	SESSION 0: Early-stage Innovation in Photonics: Examples in the Field of Bio, Life Sciences and Medtech
14:00 – 14:30	Innovation Booster Photonics – Connecting Science and Industry for Collaborative Early–stage Innovation – Project Examples from Switzerland's Innovation Booster Photonics – Selina Casutt, Managing Director (Switzerland)
14:30 – 15:30 ences	SESSION 1: Bio-Printing and Other FabricationTechnologies for Bio and Life Sci-
14:30 – 14:45	UpNano – Biocompatible High-resolution 3D Printing in the Presence of Living Cells – Bernhard Kueenburg, CEO (Austria)
14:45 – 15:00	Vital3D Technologies – 3D Bioprinting: Challenges of the Technology – What Needs to be Done to Print Full Size Kidney? – Vidmantas Šakalys, CEO (Lithuania)
15:00 – 15:15	APE Berlin – Edlef Büttner, Senior Scientist (Germany)
15:15 – 15:30	SPIO Systems – Henrik Madsen, CEO (Denmark)
15:30 – 15:45	FEMTOprint - New Solutions for Life Sciences in Diagnostics and Therapeutics via Laser-based Glass Micromanufacturing - Rosanna Toscano, Business Developer (Switzerland)

Schedule



Tuesday, 26 September 2023

16:30 - 18:30	SESSION 2: New Developments on Bioimaging		
	Moderator: Antje Knopf, Professor for Medical Image Processing at FHNW		
	(Switzerland)		
16:30 - 17:00	KEYNOTE: PSI – Paul Scherrer Institute – High-resolution 3D X-ray Imaging at the		
	Swiss Light Source: Instrumentation and Biology Applications – Mirko Holler, Scientist (Switzerland)		
17:00 –17:15	Prospective Instruments – Multimodal Multiphoton Imaging for Medical Applications		
17.15 17.20	MASENIC High resolution High aread Imaging for Electron Microscopy and X ray		
17:15 - 17:50	Applications – Benato Turchetta, Co-Founder and CEO (Spain)		
17:30 -17:45	Lyncée Tec – Yves Emery, CEO (Switzerland)		
17.45 _12.00	ESERCE Prese Littre East and High Sensitive Spectral Sensing Reat Do Coi		
17.45 - 18.00	CEO & President (Switzerland)		
18:00 –18:15	GratXray – Martin Stauber, Co-founder & CEO (Switzerland)		
18:30	Departure from PARK INNOVAARE by the bus transfer to the dinner place		
19:00 – 22:30 22:30	Networking dinner @ Grand Casino Baden (address: Haselstrasse 2, 5400 Baden) Walk from Casino to hotels		



Schedule

Wednesday, 27 September 2023

08:00 08:20 - 08:50 08:50 - 09:00	Bus transfer from Hotel du Parc to PARK INNOVAARE Welcoming coffee break Recap by EPIC
09:00 – 11:00 09:00 – 09:30	SESSION 3: Novel Spectroscopy and Analytical Techniques KEYNOTE: Centre for Advanced Photonics & Process Analysis (CAPPA) – Optical Solutions for Industrial Life Sciences Application – Liam Lewis, Head of Centre (Ireland)
09:30 – 09:45	Excelsus Structural Solutions – Synchrotron X-Ray Powder Diffraction to Support Pharmaceutical Drug Development – Mathilde Reinle-Schmitt, Physicist (Switzerland)
09:45 – 10:00	art photonics - Fiber Spectroscopy Solutions in-line for Biophotonics Application in 0.3-16µm Bange - Viacheslay Artyushenko, President & CEO (Germany)
10:00 – 10:15	HORIBA – Fluorescence Fingerprinting for Biotherapeutics Characterization – Florian Formanek, Global Life Sciences Market Manager (France)
10:15 – 10:30	Qnami - Building a Quantum Platform for Sensing Applications - Felipe Favaro de Oliveira, CTO (Switzerland)
10:30 - 10:45	SUSS MicroOptics – Wilfried Noell, Senior Principal Scientist (Switzerland)
10:45 – 11:00	Ocean Insight – Jonas Buchmann, Key Account Manager (Switzerland)
11:00 – 11:45	Networking coffee break
11:45 – 13:15	SESSION 4: Biosensors based on Photonics Technologies
11:45 – 12:00	Ligentec – Integrated Biosensing from the Visible to the IR Using Low Loss Silicon Nitride – Anton Vasiliev, Project Manager (Switzerland)
12:00 – 12:15	Fraunhofer IZM – Scalable Assembly Processes for Packaged Photonic Biosensors – Vanessa Zamora, Senior Scientist/Team Leader (Germany)
12:15 – 12:30	InSpek - Waveguide-enhanced Raman Sensors for (Bio)Process Monitoring - Jérôme Michon, CEO (France)
12:30 – 12:45	Bialoom – Dimitris Tsiokos, Founder and CEO (Cyprus)
12:45 – 13:00	Coherent – Semiconductor Laser Diodes for Bio-Sensing in Medical and Consumer Wearables – Gerald Dahlmann, Senior Director Marketing (Switzerland)
13:00 – 13:15	Fraunhofer HHI – Photonic Integrated Circuits for Biosensing – Axel Schönau, Deputy Head of Group (Germany)
13:15 – 14:00	Networking Lunch
14:00 – 15:30	Tour deep-tech campus Switzerland @ PARK INNOVAARE
15:45	Departure by the bus transfer to Zurich airport (optional)

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Participants

Name		Job Title	Company	Country
Aleksej	Martin	Area Sales Manager	Schneeberger	Switzerland
Alex	Ponomarew	Sales Manager	asphericon	Germany
Alexandra	Sereda	Business Development Manager	Sensirion	Switzerland
Amir	Eldad	Ecosystem Partner	Park Innovaare	Switzerland
Andreas	Bichler	Regional Sales Manager	OptoSigma	Germany
Andreas Charles	Voelker	Business Dev. Manager in Photonics	CSEM	Switzerland
Angela	Heckl	Sales	asphericon	Germany
Anna	Martensson	Marketing Manager	EPIC	Sweden
Antje	Knopf	Professor for Medical Image Processing	FHNW	Switzerland
Anton	Vasiliev	Project Manager	LIGENTEC SA	Switzerland
Antonio	Castelo	Photonics Technology Manager	EPIC	Spain
Aurea	Ripoll	Market Intelligence & Strategic Marketing Manager	SUSS MicroOptics	Switzerland
Axel	Schönau	Deputy Head of Group	Fraunhofer HHI	Germany
Beat	De Coi	CEO	ESPROS Photonics	Switzerland
Bernhard	Kuenburg	CEO	UpNano	Austria
Birhanu	Belay	Doctoral Researcher	Tampere University	Finland
Carola	Lampe	Technical Sales Engineer	Laser 2000	Germany
Carolin	Münzberg	Managing Director and Co-Founder	Photonics Precision Engineering	Germany
Christian	Hochfilzer	Business Development Manager	Lumitech	Switzerland
Christian	Bosshard	Managing Director	Swissphotonics	Switzerland
Christoph	Harder	President	Swissphotonics	Switzerland
Cyril	Saudan	Application/Production engineer	Pi Imaging Technology	Switzerland
Daniela	Muthreich	Communications	Park Innovaare	Switzerland
Didier	Beghuin	СТО	Lambda-X	Belgium
Dimitris	Tsiokos	CEO	Bialoom	Cyprus
Edlef	Büttner	Senior Scientist	APE Berlin	Germany
Emmanuel	Leclerc	Technical Sales Engineer	SEDI-ATI	France
Felipe	Favaro de Oliveira	CTO and co founder	Qnami	Switzerland
Felipe	Favaro de Oliveira	СТО	Qnami	Switzerland
Felix	Wäger	Senior Scientist	Prospective Instruments	Austria
Florian	Gegier	Key Account Management	Park Innovaare	Switzerland
Florian	Formanek	Global Life Sciences Market Manager	HORIBA	France
Gerwin	Puppels	Managing Director	RiverD	The Netherlands
Gian Lorenzo	Paravicini Bagliani	R&D Engineer	Sensirion	Switzerland
Hans-Peter	Frank	Ecosystem Partner	Park Innovaare	Switzerland

Participants



Name		Job Title	Company	Country
Henrik	Madsen	CEO	SPIO Systems	Denmark
Jan	Werschnik	CEO	Photonics Precision Engineering	Germany
Jaroslaw	Sperling	Business Developer	Menlo Systems	Germany
Jens	Hofrichter	Manager Optics & Photonics Engineer- ing	Spiden	Switzerland
Jérôme	Michon	CEO	InSpek	France
Joerg	Smolenski	Business Development Manager	Nanoscribe	Germany
Jonas	Buchmann	Sales Manager Central Europe	Ocean Insight	Germany
Jonas	Hiller	Development Engineer	Haag-Streit	Switzerland
Jonathan	Degen	Key Account Manager	Ferrotec	Germany
Josef	Küffner	Business Development	Park Innovaare	Switzerland
Julien	Boucart	Senior Director Product Management	Coherent	Switzerland
Kaustubh	Banerjee	COO	Phaseform	Germany
Krister	Magnusson	Sales and Product Manager	Obducat	Germany
Laura	Matthies	Key Account Manager	Hoya Corporation	Germany
Laurent	Dubost	R&D Photonic Manager	HEF-IREIS	France
Liam	Lewis	Head of Centre	Centre for Advanced Photonics & Process Analysis - Munster Technological University	Ireland
Luisa	Hofmann	Product Manager Ultrafast Fiber Lasers	TOPTICA Photonics	Germany
Markus	Riedi	CEO	Opto	Germany
Martin	Stauber	CEO	GratXray	Switzerland
Mathilde	Reinle-Schmitt	Physicist	Excelsus Structural Solutions (Swiss)	Switzerland
Mathilde	Reinle-Schmitt	Physicist	Excelsus Structural Solutions	Switzerland
Matthias	Lorenz	Key Account Manager	AEMtec	Germany
Mirko	Holler	Scientist	PSI - Paul Scherrer Institute	Switzerland
Naud	van Bunningen	Business Development Manager	Photonis	The Netherlands
Naveen	Balla	Technical Marketing Engineer	Hamamatsu Photonics	France
Neringa	Noreikiene	Events Manager	EPIC	Lithuania
Nicola	Reusch	Spectroscopy Sales & Solutions Man- ager	Thorlabs	Germany
Patrick	Leisching	СТО	iThera Medical	Germany
Peter Morten	Moselund	CEO	Swiss PIC	Switzerland
Renato	Turchetta	CEO	IMASENIC	Spain
Robert	Rudolph	CEO	Park Innovaare	Switzerland
Rolando	Ferrini	Chief Regional Officer & Head of FEMTOprint Neuchâtel	FEMTOprint	Switzerland
Rosanna	Toscano	Business Developer Life Sciences	FEMTOprint	Switzerland

Participants

Name		Job Title	Company	Country
Selina	Casutt	Division Manager	Swissmem	Switzerland
Soren Helmer	Rasmussen	Sales Director	Delta optical thin film	Denmark
Stefano	Cattaneo	Group Leader Optoelectronic Systems	CSEM	Switzerland
Stefanos	Tsoukias	Electronics Engineer	Pi Imaging Technology	Switzerland
Susmita	Sridhar	Photonics Market Analyst	TEMATYS	France
Tobias	Bauert	Business Development Manager Life Sciences	IMT Masken und Teilungen	Switzerland
Tom	Bax	R&D Scientist	Photonis	The Netherlands
Urs	Grimm	Sales Director Europe	ESPROS Photonics	Switzerland
Ulrike	Helfferich	COO	EPIC	Germany
Uwe	Linss	Director of Sales EMEA	FOCUZ Manufacturing	Germany
Vanessa	Zamora	Senior Scientist	Fraunhofer IZM	Germany
Viacheslav	Artyushenko	President & CEO	art photonics	Germany
Vidmantas	Sakalys	CEO	Vital3D Technologies	Lithuania
Wilfried	Noell	Senior Principle Scientist	SUSS MicroOptics	Switzerland
Yves	Emery	CEO	Lyncée Tec	Switzerland
Zain	Ali	Account Manager	Chroma Technology	Germany



Upcoming EPIC activities

EPIC VIP Networking Reception at ECOC 2 October 2023. Glasgow, Scotland

EPIC TechWatch at ECOC 4 October 2023. Glasgow, Scotland

EPIC Online Technology Meeting on Optical Metrology Solutions for the Industry 9 October 2023. Online Event

EPIC Technology Meeting on Industrial Quantum Photonics Technology at TOPTICA 11-12 October 2023. Munich, Germany

EPIC Technology Report on Freeform Optical Systems by Oliver Faehnle 17 October 2023. Online Event

EPIC Online Technology Meeting on LIDARs on Chips 23 October 2023. Online Event

EPIC Meeting on Laser Applications along Battery Manufacturing at ARENA2036 24-25 October 2023. Stuttgart, Germany

EPIC Members Delegation to Taiwan 23-27 October 2023. Taipei, Taiwan

EPIC Online Technology Meeting on Optical Design and Simulations: Tools and Use-cases 6 November 2023. Online Event

EPIC Members Investors Meeting 7-8 November 2023. Eindhoven, The Netherlands

EPIC Members New Product Release November 8 November 2023. Online Event

EPIC Technology Meeting on Microelectronics & Photonics – Two Sides of One Coin 13-14 November 2023. Munich, Germany

EPIC TechWatch on Laser and Photonics Application at COMPAMED HIGH-TECH FORUM by IVAM, MEDICA 15 November 2023. Düsseldorf, Germany



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JUNE, 24–27, 2025, MESSE MÜNCHEN 27th World's Leading Trade Fair with Congress for Photonics Components, Systems and Applications



DAY OF PHOTONICS 21 OCTOBER 2023

Every company, school, organization, association, university, and individual is invited to participate!

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www.day-of-photonics.org

DAY OF PHOTONICS disseminates "photonics" towards the general public. It is an initiative of EPIC, the industry association that promotes the sustainable development of organisations working in the field of photonics. EPIC fosters a vibrant photonics ecosystem by maintaining a strong network and acting as a catalyst and facilitator for technological and commercial advancement.



New Decade New Logo Same Mission





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Biographies & Company Descriptions





AEMtec, with certified production facilities according to ISO 9001, 13485 and 14001 standards, provides next level technologies for complex, custom (opto-) electronic applications to customer's specification. The company has a broad portfolio of high-end chip-level technologies, including Wafer Back-End Services, Chip on Board, Flip Chip, 3D Integration and Opto-Packaging for various industries, all realized in cleanroom environment (ISO class 5 to 8). An extensive suite of development services as well as the development and introduction of test equipment and series production capabilities round off the range of services. The opportunities to optimize processes and eliminate cost drivers must be fully exploited both continuously and consistently. For this purpose, AEMtec provides a complete service portfolio to ensure ideal conditions. Individual requirements can be serviced and implemented in the shortest periods. Our customers appreciate rapid time-to-market of their product and can therefore secure a competitive advantage. Customers also gain from the various assembly technologies offered from a single source. **www.aemtec.com**



Matthias Lorenz (Key Account Manager) achieved his Master Degree in Civil Engineering for Fine Mechanics, Production- and Micro System Technologies at the Technische Fachhochschule Berlin, now BHT (University of applied sciences). After holding several national Sales and Administrative positions in the Communication Industry he joined AEMtec GmbH in 2001. Since then he is driving the Business Development for next generation packaging solutions for the Medical industry with a strong focus on X-Ray Imaging, US Echography and DNA/RNA Sequencing through Lab-on-a-Chip solutions. From 2012 to 2020 Matthias was also responsible for the Business Development in the U.S. After a short interruption, he was assigned in 2023 to the Head of Business Development for North America.





APE is a worldwide trusted supplier of laser diagnostics and wavelength conversion for the ultrashort pulse (USP) laser industry. The diagnostics business covers autocorrelators for pulse width measurements, spectrometers, calibration light sources for cytometry, and other equipment for measuring and manipulating laser pulses. The business segment wavelength conversion includes optical parametric oscillators and amplifiers (OPO, OPA), frequency multiplication, as well as laser-sources for nonlinear Raman spectroscopy and label-free microscopy. **www.ape-berlin.de**



Edlef Büttner (Senior Scientist) received his Master degree in Physics in 1981 from the Technical University of Dresden. He started his career in ultrafast laser physics in Berlin at the Institute of Scientific Instrumentation, where he worked on the generation and characterization of ultrashort laser pulses. In 1992 he co-founded the company APE GmbH, leading it as R&D manager. In 2015, he withdrew from operative business. Since then he has been focusing on strategic and special technical tasks for the future development of APE.





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 (CEO & President) 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, CPACT, IBioIC, SPIE, OSA, SAS, SPECTARIS, Optec-BB, Photonics-BB, GDCh-DECHEMA & CLIRSPEC.





asphericon has the passion for revolutionizing the manufacturing of optical elements with new technologies, which is changing the degree of precision and quality that is possible. By combining a worldwide unique CNC control technology with high-end manufacturing processes, we routinely achieve unique levels of dimensional precision for optical components, assemblies and systems. **www.asphericon.com**



Alex Ponomarew (Sales Manager) holds a degree in Sports Economics from Deutsche Hochschule für Prävention und Gesundheitsmanagement GmbH/University of Applied Sciences Cologne. During his studies, he took on the responsibility for two sports and health facilities. After completing his studies, he worked as a Cluster Manager, overseeing multiple sports facilities on beyond regional level for several years. Since August, he has been working as a Sales Executive for BeamTuning products at Asphericon.

bialoom



bialoom was founded in 2018 in Nicosia Cyprus with the mission to commercialize the plasmophotonic biosensing technology developed through years of research at the Aristotle University of Thessaloniki. The company finds itself at the crossroads of biosensing, silicon photonics and diagnostics to address the clinical need for fast and effective diagnosis and treatment of diseases related to acute infections. bialoom develops the smallest, powerful and fully flexible photonic biosensors on silicon plasmonic PICs. Through its founders, bialoom consolidates remarkable experience in innovative technologies through their participation and coordination in more than 10 multi-million EU R&I projects. **www.bialoom.com**



Dimitris Tsiokos (CEO) obtained his Bachelor (BEng) degree in Electronic Engineering from the University of Southampton, UK in 2001, and his Masters (MSc) degree in Optics & Photonics from Imperial College London, UK in 2002. In 2007 he completed his PhD degree at the National Technical University of Athens. In 2009, Dimitris was a visiting researcher at the School of Engineering, University of Wisconsin, USA, while he also joined the Centre for Research and Technology (CERTH) and the Aristotle University of Thessaloniki in Greece. Since 2020 he is the CEO of Bialoom, a photonic biosensing technology startup that aims to

accelerate diagnosis and therapy of acute infections. His technological interest spin around silicon photonics, plasmonics, biosensing and point of care diagnostics. Dimitris has authored and coauthored more than 70 publications in peer-reviewed journals and international conference proceedings, 4 book chapters and 3 patents.

Innovation Through Light

CENTRE FOR ADVANCED PHOTONICS & PROCESS ANALYSIS





The Centre for Advanced Photonics & Process Analysis (CAPPA) is a research group of Munster Technological University. CAPPA's activities focuses on bringing the benefits of photonics technology to a diverse range of industry and research partners. CAPPA is at the forefront of photonics research in Ireland, conducting both applied and fundamental research on photonics for applications in areas as diverse as telecommunications, medical devices, food and pharmaceutical manufacturing. CAPPA conducts internationally recognised academic research on topics such as the non – linear dynamics of lasers and ultrafast laser physics, and the understanding of the dynamics of novel semiconductor materials and devices. The collaboration with industry is driven through the Enterprise Ireland Technology Gateway. CAPPA have a strong track record of engagement with industry. Early collaborations centred on our core background strengths in photonic materials and devices, nad devices, pharmaceuticals, electronics and food technology, while consolidating our interaction with the photonics sector. www.cappa.ie



Liam Lewis (Head of Centre) hold a PhD from University College Cork in the area of micro electronic engineering. His background focused on the development and fabrication of novel light sources for applied research. The centre conducts both fundamental and applied research and has a strong track record in delivering solutions to industrial partners. Liam is directly responsible for the industrial engagement and delivery of technological solutions to the industry partners. He has won over €5M in competitively won funding over the last 10 years and some €2.5M in direct funded industry support. CAPPA has over €6M worth of ongoing

projects in areas as diverse as food and beverage, life sciences, medical and pharmaceutical and dairy and agri. CAPPA's industrial projects have a strong focus on the use of a variety of spectroscopic techniques such as FTIR, Raman, Fluorescence etc with the CAPPA project team having extensive experience in these areas.





Chroma Technology is an employee-owned company that specializes in the design and manufacture of precision optical filters and coatings. The most advanced coating techniques have been developed that provide the greatest accuracy in color separation, optical quality and signal purity economically for OEM applications. We provide application engineering support, short cycle times and are as comfortable designing and manufacturing custom filters. The engineering team from Chroma's instrumentation subsidiary 89North is focused on production of light sources and other opto-mechanical products for OEM and end-users. Founded in 1991 with the focus on optical filters for fluorescence microscopy, Chroma became a global player in the optical world, serving biomedical research and diagnostic, machine vision and medical instrumentation. <u>www.chroma.com</u>



Zain Ali (Account Manager) studied Physics at Comsats University Lahore campus, Pakistan with a Bachelor degree in the field Physics. In 2021, he finished his Master degree at Abbe- School of Photonics, Friedrich Schiller University, Jena, Germany. During his master degree he completed his internship at Vrije Universiteit Amsterdam (VU), Netherland. He joined Chroma Technology full-time in 2021 as junior account manager, become Account manager in 2022.

C HERENT



Coherent empowers market innovators to define the future through breakthrough technologies, from materials to systems. We deliver innovations that resonate with our customers in diversified applications for the industrial, communications, electronics, and instrumentation markets. Headquartered in Saxonburg, Pennsylvania, Coherent has research and development, manufacturing, sales, service, and distribution facilities worldwide. <u>www.coherent.com</u>



Julien Boucart (Senior Director Product Management) obtained his PhD in 1999 working on the development of long wavelength VCSELs for telecommunications. At Coherent, he initially worked in research and development developing lasers for consumer electronics applications. He is now leading the product portfolio of the lasers for consumer electronics, automotive, and biosensing applications.

« csem



CSEM is a non-profit-oriented public-private Swiss technology innovation center renowned for developing advanced technologies with profound societal impact. Our mission is to transfer these innovations to industries, strengthening the competitiveness of our customers. With extensive expertise in micro and nanoscale optics, photonic integrated circuits, laser sources, optical sensing, and intelligent imaging, we are revolutionizing key sectors such as data centers, quantum technologies or next-generation medical devices. Our photonics solutions are having a profound impact, enhancing health diagnostics, energy efficiency, manufacturing processes, communication networks, and security systems. By pushing the boundaries of technology, CSEM is paving the way for a brighter future, where the power of light drives extraordinary advancements. <u>www.csem.ch</u>



Andreas Voelker (Head of Business Development, Photonics) holds a PhD in nano photonics from the University of Fribourg, Switzerland. He has a research background in bio-medical imaging and diagnostics, as well as nano particle characterization. He has been Head of BD, Photonics for CSEM since 2021. Prior to this he has worked for more than 10 years as CEO of LS Instruments AG and has also gained experience at Roche Diagnostics and Ypsomed in the past. Andreas is passionate about bringing Photonic technologies to real life applications.



Stefano Cattaneo (Group Leader Optoelectronic Systems) holds a PhD in optics from Tampere University of Technology. He has an extensive background in optoelectronics, microtechnology and lab-on-chip systems. Before joining CSEM, he worked as a Research Scientist at Philips Research in Eindhoven. In his group, he develops application specific, customized, optoelectronic sensor systems for applications in life-science (pharma, diagnostics, biotech), process monitoring and industrial quality control.





Delta Optical Thin Film is a world-leading manufacturer of optical thin film filters with more than fifty years of experience. Through continuous development of new design and production technology, Delta Optical Thin Film helps the world's leading manufacturers of diagnostic and analytical instruments in setting new standards. With its unique and advanced optimisation software to match customers' particular optical specifications, Delta Optical Thin Film ensures a fast and efficient design process. Delta Optical Thin Film fluorescence filters and Continuously Variable Filters are used in demanding applications such as hyperspectral imaging, fluorescence microscopy, spectroscopy, flow cytometry, wavelength selectors, high-performance monochromators, biomedical laser systems, Point of Care (PoC) instruments, image transferring systems, color separation systems and optical coherence tomography. <u>www.deltaopticalthinfilm.com</u>



Søren Rasmussen (Sales Director) has a commercial background. He holds a M.Sc. Econ & Business Administration from Copenhagen Business School, and he has more than 15 years of experience in sales and marketing of medical devices with both domestic and international partners. As Sales Director Soren has the global sales responsibility for the Delta Optical Thin Film product range. He joined Delta Optical Thin Film in 2021.



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.



Anna Mårtensson (Marketing Manager) has more than 20 years of marketing experience working for Hamamatsu Photonics. She is from Stockholm, Sweden and has studied marketing at Berghs School of Communication. Her knowledge in Nordic and European marketing, graphic design, and her background in the photonics industry brings high value to EPIC. In her current position she is supporting EPIC in all the communication activities of the association as well as the EU-funded initiatives.



Antonio Castelo (Photonics Technologies Program Manager) has a PhD from the Department of Applied Physics of Universidad de Santiago de Compostela in laser processing of glassy samples. In Madrid, he made a postdoctoral stay at the Instituto de Óptica of the Spanish National Research Council (CSIC), where he worked on the fabrication of nanostructures with dielectric and metallic materials via pulsed laser deposition. In 2010, Antonio entered the world of distribution as a Sales Engineer in the Photonics Department of the company Acal BFi, a job that he continued in the Spanish company Grupo Álava since 2012. In the latter, he was responsible for sales and marketing for Spain and Portugal of different laser

systems, optical and optomechanical components, optical metrology equipment and other nanocharacterization devices. In 2021, he became US Sales Manager for the company FYLA, a manufacturer of supercontinuum and ultrafast fiber lasers, for the development of the market in this country and the establishment of new relationships with the most relevant research centers in the world of optics and photonics. At EPIC, Antonio is supporting the technical needs of our growing membership as well as the EU-funded initiatives.



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).



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.



ESPROS Photonics is a world-class foundry, product, and technology solution provider for optoelectronics manufacturers, imager designers, and researchers. The privately owned company with more than 70 employees working in the Swiss headquarters was founded in 2006 by Beat De Coi. <u>www.espros.com</u>



Beat De Coi (Founder and CEO) is Founder and CEO of Swiss based ESPROS Photonics corporation. He and his team developed a backside illumination imager technology, which allows to build sensitive CCD charge manipulation elements within CMOS chip devices. With this technology, high speed imaging, time-of-flight distance detection as well as wide band spectral sensing devices are available on the market. Beat De Coi is elected member of the Swiss Academy of Technical Sciences SATW.



Urs Grimm (Director of Sales Europe) started his career as Field Sales Engineer at Arrows in 1990 in Zurich. He graduated at the University of Applied Science in Winterthur / Switzerland and holds a bachelor in electrical engineering. With more than 30 years of experience in the semiconductor business, Urs is responsible for Sales in Europe. Before joining ESPROS in 2016 he was working in different roles at ams OSRAM, ARROW, AVNET and Eurodis.





FEMTOprint SA, founded in 2013 in Muzzano (Switzerland), is a pioneer and market leader in highprecision, 3D microfabrication of custom-designed glass microdevices. Its activities focus on the Contract Development and Manufacturing of microsystems, from rapid prototyping to pilot and volume production at wafer-level, to serve leading international entities and fast-paving tech companies in biotechnology, life sciences, medical, watchmaking, automotive, aerospace, semiconductors, etc. In addition, with its new subsidiary located in Neuchâtel (Switzerland) the company aims to expand its business in photonics and miniaturized optics. The FEMTOPRINT® microfabrication platform enables indeed truly free-form surface/volume definition, welding, surface treatment, and ablative solutions in glass, thus creating a large variety of unique, three-dimensional microdevices. With a monolithic approach to avoid challenging assembly and alignment steps, it enables the integration of microoptical, micromechanical, and microfluidic functionalities. The company employs 35+ multi-disciplinary professionals and is certified ISO13485:2016 for medical device manufacturing. <u>www.femtoprint.ch</u>



Rosanna Toscano (Business Developer Life Sciences) graduated in Biomedical Engineering with a Master's Degree at the Politecnico di Milano, Rosanna got a great professional experience in the Medical Device and Life Sciences industry, through a strategic marketing and sales activity. Her enthusiasm & research for Technical Innovation led her to FEMTOprint SA in 2019, where she is responsible for Life Sciences.



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Ferrotec provides customers with advanced technology solutions that make their products work better, more precisely, and more reliably. Founded in 1980 on a technology core of FerroFluid magnetic liquid and Ferrofluidic® sealing products, our company and our product portfolio have grown to meet the evolving needs of our customers. Ferrotec is a world leading manufacturer, marketer, and distributor of advanced material, component, and assembly solutions used in a broad array of end products, manufacturing systems, and industries. **www.ferrotec.com**





Focuz Manufacturing (FOCUZ) is a contract manufacturer providing high-precision Optical-Electronic Manufacturing Services (O-EMS) to OEM customers in Industrial, Biomedical & Healthcare, Clean Energy, Datacom, Automotive, and Optical Communication. Focuz has a facility with 6,200-sq.m and over 800 employees based in Northern Bangkok, Thailand. A new facility with in total 13,600-sq.m, including clean rooms, will be ready in Q3-2023. Key manufacturing capabilities are:

• COB, Hybrid assembly & packaging (Lasers, VCSEL, PD, Image Sensors, MEMS, CMOS, X-ray, etc.)

- EMS/Service for Image Sensor packaging, for biomedical and industrial camera application
- Precision Optical Assembly (Optical Amplifiers (EDFA), LIDAR, TOSA/ROSA, Transceivers, etc.)
- PCBA & Box build (including RF/Microwave, Power electronic, etc.)
- High-speed transceivers, AOC, Optical HDMI & USB assemblies & new developments, etc.

• Medical and bio-medical FO probes and/or medical sub-system assemblies and sensors & scanners

We can support dedicated production lines with highest IP protection and drop shipments to any countries, including complete Supply Chain Management. <u>www.focuz-mfg.net</u>



Uwe Linss (Director of Sales EMEA) had been working for almost 10 years in SIECOR/Corning Optical Fibers (since 1992) after finished study Technical university in Leipzig. In 2002, he changed into LEONI Fiber Optics, as key-account manager in first 10 years but was nominated and appointed to lead this companies APAC sales and business development activities, being successful and with huge growth. Since 2021, he is managing and being responsible for FOCUZ Manufacturing and new customers and projects in EMEA, and an organic growth of sales and market share in Europe. Main market access is focused by

semiconductor and packaging markets, sensor and CMOS or line sensor applications, and biomedical market, too. He is located and live in Thuringia/Germany, and collaborating with German and European customers and new projects from there.



Heinrich Hertz Institute



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 and our in-house full wafer process line, we also develop polymer waveguide based hybrid integration and SiNx photonics. While our expertise is strongest in high performance (100 GBaud and above) data- and telecom, we have strongly increasing activities in quantum communication and sensor systems, e.g. based on Terahertz and SPAD technology. We regularly offer multi-project 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**



Axel Schönau (Deputy Head of Group) received his M.Sc. from the Technical University of Berlin in Electrical Engineering in 2018. During his master studies in Berlin and at the Technical University of Denmark (DTU) in Copenhagen, he placed the focus on optics and photonics. He joint Fraunhofer HHI as a student assistant in 2016 and became a research associate in the Photonic InP Foundry Group in 2019. Coordinating the foundry service comprising customer relation and wafer validation, PIC design in indium-phosphide as well as photonic packaging state his key competences.





Fraunhofer Institute for Reliability and Microintegration IZM specializes in applied and industrial contract research on packaging technology and the integration of multifunctional photonics and electronics into systems. The institute covers all the competencies needed for advanced photonic packaging, such as, process development and qualification, and reliability and failure analysis with specific links to 3D wafer level packaging, silicon and glass interposer and 3D heterogeneous integration. Optical interconnection technologies, such as, photonic design, fiber optics, glass waveguides, PIC integration, electrical-optical printed circuit boards and laser module assembly, system test are fields of excellence. Since it was founded in 1993, Fraunhofer IZM continues to grow and develop successfully. More than 430 employees are engaged in research and development at the three locations in Berlin, Cottbus and Dresden. **www.izm.fraunhofer.de**



Vanessa Zamora (Senior Scientist) completed her PhD in Physics at the University of Valencia, Spain, in 2010. During her PhD, she has shortly worked at Max-Planck Institute for Polymer Research in Mainz, Germany. She was a postdoctoral fellow at the University of Alberta, Canada. Later, she joined the Fraunhofer HHI as a research associate in Berlin, Germany. She has been a research associate at the Technical University of Berlin since 2013 and at Fraunhofer IZM since 2015. Currently, she is a senior scientist and team leader for fiber optic interconnects and optical sensors at IZM. Her research covers

advanced fiber coupling solutions, optical sensor development & packaging methods, especially for fiber optics and integrated photonics. She is involved in national and European projects providing miniaturization solutions based on exotic technologies such as laser welding, thermally-activated molten salt etching and laser structuring.

$GRAT \times RAY$

GratXray is an innovative medical device company that develops, manufactures and markets systems based on phase contrast enhanced X-ray imaging. Our worldwide patented method is ideal for soft tissue imaging as it provides unprecedented density contrast and tissue differentiation in low absorbing tissue. We focus on applications where classical X-ray systems fail or provide unsatisfactory results. Our first application using this new platform is breast cancer imaging, which we are addressing with the development of a Grating Interferometry Breast Computed Tomography (GI-BCT) system. With this true 3D volumetric approach, we will enable more accurate detection of breast tumors without the use of contrast agents. The breast can be measured without compression, which massively improves patient comfort. <u>www.gratxray.com</u>



Martin Stauber (CEO) is a scientist and entrepreneur, bringing innovative research to market. He is an expert in 3D medical imaging and has been working in the field of micro-computed tomography for more than 20 years. After his graduation, he was research fellow and lecturer at ETH Zurich. In 2008 he co-founded the ETH spin-off company b-cube AG, which he led as CEO until the company was sold to Scanco Medical AG in 2012. With this successful merger, he took over a position as senior scientist at Scanco Medical AG. Today, he is leading his second startup company GratXray, a spin-off of ETH Zurich and the Paul Scherrer Institute, as CEO.



Look closer. See further.

The Haag-Streit Group, headquartered in Köniz near Bern, is an internationally operating Swiss medical device company in the field of eye care. The group develops, manufactures and globally distributes cutting-edge solutions and medical devices including slit lamps, tonometers, chairs and stands for the refractive workplace, as well as biometers, perimeters, surgical microscopes and further accessories. The Haag-Streit Group also offers virtual reality-based solutions and simulators for medical education. For more than 160 years, Haag-Streit has been working closely with well-respected scientists and physicians worldwide. According to the principle:" Look closer, see further", we work with attention to detail to develop and produce innovative and progressive comprehensive solutions of highest quality for eye care specialists. **www.haag-streit.com**



Jonas Hiller (Development Engineer) has a master in microengineering (EPFL). He has a large experience in metrological applications and optical design. During 5 years he has been working at Pasan SA, (former Meyer Burger), designing measurement equipment for photovoltaic devices. During 3 years at Xovis AG he has been developing 3D Stereo Tracking devices and respecting algorithms for tracking person flows for predicting wait times in desk queues. For 4 years at Haag-Streit Diagnostics he has been optimizing concepts of optical coherence tomography (OCT) interferometers and other measurement technologies for

ophthalmic applications.

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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. <u>www.hamamatsu.com</u>



Naveen Balla (Technical Marketing Engineer) has been with Hamamatsu Photonics Europe for the last 3 years. He is responsible for management of laser products and certain UV light sources. In addition, he is also involved in analysis and development of business in Europe, internal trainings and product promotion. Prior to working at Hamamatsu, Naveen worked briefly as an optical engineer at Valeo Vision Systems and has 12 years of research experience in microscopy and ultrafast spectroscopy.

HORIBA



HORIBA Scientific, part of HORIBA group headquartered in Japan, provides an extensive array of instruments, components and customized solutions for a broad range of scientific and industrial applications. The Custom Gratings activity at HORIBA Scientific addresses the needs of the scientific community for very specific, high-end diffraction gratings to accommodate the most challenging applications including high energy lasers, space flight, astronomy, synchrotron and XUV sources. For more than 50 years, HORIBA Scientific (formerly Jobin Yvon) has been playing a leading role in the design, development and manufacture of master and replica diffraction gratings for laboratories throughout the world. Our constant innovation and technical expertise have been demonstrated by the continuous development of both ruled and holographic grating technologies, including the invention of aberration-corrected holographic gratings and ion-etched blazed holographic gratings. HORIBA develops since several decades, through missions in collaboration with prestigious space agencies and system integrators, state of the art of scientific diffraction gratings dedicated to space applications for embedded telescopes or imaging spectrometers. www.horiba.com



Florian Formanek (Global Life Sciences Market Manager) holds a master's degree in physics from Paris-Saclay University and a PhD from ESPCI with a specialization in near-field optics (2004). In 2004, he moved to Japan as a postdoctoral researcher at the national institute RIKEN, where he explored metamaterials. He later joined SONY Life Science Laboratory in Tokyo, focusing on the development of innovative Terahertz (THz) spectroscopy and imaging tools for healthcare applications. Subsequently, Florian worked for seven years at L'Oréal Advanced Research Division, managing the Microscopies and Microanalyses Laboratory in support of cosmetic applications. In 2018, he joined HORIBA as Head of Applications and was appointed Global Life Sciences Market Manager in 2021.





HOYA CORPORATION OPTICS SECTION is an innovator in the growing fields of photonics and optics and extends HOYA Group's leading heritage in color glass filter/optical filter making and technology. HOYA OPTICS' development, creation and distribution of color glass filter/optical filter are comprehensive and our products and services in Japan and throughout the world are incomparably speedy, efficient and effective. HOYA OPTICS provides colored glass filters/optical filters for wide range of industries such as cameras, optical instruments, physics and chemistry, educational materials, industrial-use and medical-use with spectral characteristics and product size according to your requirements; and manufactures and sells special glass used in various fields including electronic glasses which are often used in the electric and electronics industries. With extensive experience and achievements cultivated worldwide, all aspects of the supply chain from raw material procurement to delivery is integrated within HOYA OPTICS and we will respond to your diverse needs on a one-stop basis. **www.hoyaoptics.eu**



Laura Matthies (Key Account Manager) being a generalist she studied Japanese studies with a minor in Civil Law at the University of Hamburg (Germany). During her studies she spent two years in Japan as an exchange student; one year in Tokyo during her Bachelor's and one year in Nagoya during her Master's degree. Returning to a long-held passion for science she started her career at the Europe sales office for Hoya color glasses in November 2018. As of May 2023 she was appointed as Key Account Manager to further support the existing customer base in Europe.





IMASENIC is a fabless semiconductor company, based in Barcelona, Spain. It develops custom image sensors and systems. Driven by innovation, it holds the seal of innovative SME from Europe and Spain. Our experienced engineering team develops new product, that give our customers a leading market position. With decades of cumulated experience in the imaging arena, it will develop new products, starting from just the initial idea or from detailed requirements. We develop image sensor, readout circuits (ROIC) as well as the proximity electronics. Our latest products include: a low noise, high dynamic range full frame CMOS image sensor (IMA302), achieving 1.5 e- rms noise and a dynamic range in excess of 92.7 dB; and a wafer-scale, radiation-hard, high speed CMOS image sensor and readout electronics (Sagara1212), boasting 4Mpixel and over 5,000 fps, making the fastest sensor in the world in its category. <u>www.imasenic.com</u>



Renato Turchetta (CEO) received the M.S. degree in Physics from the University of Milan (Italy) in 1988 and the Ph.D. from the University of Strasbourg (France) in 1991. In 1999 he joined the Rutherford Appleton Laboratory in the UK. In 2001 he founded a design group developing custom CMOS image sensors (CIS). With his team he developed the first CIS product for electron microscopy, a 16Mpixel, rad-hard sensor, as well as a global shutter, 5 million frames per second, megapixel CIS. In 2014 he co-founded Vivamos Ltd., a spin-off set up with the goal to commercialise his 6.7 Mpixel, wafer-scale, video rate CIS. He was executive director of the company until the end of 2016. In 2017 he co-founded

IMASENIC, where he is the CEO. Renato is member of the Advisory Board of the Image Sensors Europe conference since 2011. He also authored or co-authored over 100 papers in peer-review journals and 10 patents.





InSpek is a start-up developing integrated photonic sensors for industrial applications. InSpek's first product is a chemical analysis system aimed at real-time monitoring of chemical and biological processes. This system is based on a patented technology for waveguide-enhanced Raman spectroscopy (or "Raman-on-a-chip"), which leverages the advantages of integrated photonics for Raman spectroscopy: higher sensitivity, lower cost, and smaller size. Overall, InSpek's vision is to enable Industry 4.0 with integrated photonic sensors. **www.inspek-solutions.com**



Jérôme Michon (CEO & Co-Founder) is a co-founder and CEO of InSpek, which he created after his PhD and post-doc in integrated photonics. During his PhD, his research was on flexible integrated photonics and photonic sensors. He then worked on the technology at the core of InSpek during his post-doc at C2N/Université Paris-Saclay. Jérôme holds an engineering degree in Physics from Ecole Polytechnique and a PhD from MIT.





iThera Medical is a MedTech company based in Munich, founded in 2010 as a spin-off from Helmholtz Centre Munich. It develops, produces and markets a novel technology based on multispectral optoacoustic tomography (MSOT) for detection of tumors and chronic inflammatory diseases. In 2014, iThera won the German Innovation Award and in 2019 received a CE accreditation. With its unique ability to accurately visualize and quantify tissue molecules in-vivo and in real-time through several centimeters of tissue, the photonic molecular imaging technology is at the forefront of the next era in biomedical imaging. iThera has a very experienced world-wide team of 45 employees from 17 different countries and is preparing for strong growth, the current annual revenue is about 5 M€. The installed base already comprises of more than 120 systems at world-wide key opinion leaders. <u>www.ithera-medical.com</u>



Patrick Leisching (CTO) started working as CTO for iThera Medical in Munich in June 2022 and is listening to molecules to open a new era of in-vivo medical imaging. Beforehand, he was engaged for 12 years as SVP R&D for TOPTICA Photonics in Munich, scaling the R&D organisation from 24 to more than 100 people and the revenue from 14M€ to 105M€. His industry career started in 1998 at Siemens Information and Communication Network in Munich, where had various functions from research to project management and head of optical systems R&D department, later at Nokia Siemens Networks he was engaged as head of portfolio management and finally head of product management for the

operating systems software of optical and packet transmission systems. He holds academic degrees from Technical University of Munich (Dipl.-Phys., laser physics and semiconductor physics) and RWTH Aachen (Dr. rer. nat., III-V quantum well semiconductors and THz radiation), the post-doc as Feodor Lynen fellow was performed at Ecole Polytechnique in Paris (II-VI magneto-optic semiconductors).





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. <u>www.lambda-x.com</u>



Didier Beghuin (CTO) is leading a team of 20 engineers dedicated to the development of optical instrumentations since 2013. He is involved in optical developments since 2000. He developed metrology instrumentation for ophthalmic industry, sighting systems for defense, and series of custom microscope for biomedical sector. Being involved in space activities, he also led optical imaging or metrology developments for earth observation or microgravity science.





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. <u>www.laser2000.com</u>



Carola Lampe (Technical Sales Engineer) is a trained biochemist and physicist. She finished her PhD in July 2022 at the Ludwig-Maximilians-University Munich, focusing on semiconductor crystal spectroscopy using multiple laser microscopy techniques. She joined Laser 2000 GmbH in November 2022 as a technical sales engineer. There she manages the optics and optomechanics product portfolio and further uses her expertise for biophotonic applications.

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LIGENTEC is a Swiss based manufacturing partner, offering low loss SiN Photonic Integrated Circuits (PICs) for industries such as quantum technologies, LiDAR, communications, space and sensors. Due to its high confinement, the thick nitride waveguides and resonators have low bending losses and excel even in high power applications from the visible to the mid-IR. The main application areas for this advanced silicon photonics low loss technology include coherent telecommunication, LiDAR, metrology, supercontinuum generation, spectroscopy, sensing and microwave photonics. Ligentec's All Nitride Core Technology platform is fully CMOS compatible, thus allowing us to offer ramping up to high volumes benefiting from the scale of the semiconductor industry. **www.ligentec.com**





Lyncée Tec is the reference company in the field of 4D microscopy and of Quantitative Phase Imaging (QPI). Its unique technology, based on digital holography (DHM®), provides simultaneously high acquisition rate and interferometric resolution optical profilometry, and label-free bio imaging. It opens new quality control possibilities and novel research opportunities, enabling applications that were not possible before. Lyncée offers complete solutions, from sample handling to data analysis, in the field of MUT, micro production, semiconductor, micro-optics, watch industry, high content screening, and cell imaging. <u>www.lynceetec.com</u>



Yves Emery (CEO) holds a PhD in Physics (Optics) and a Business Administration Postgraduate certificate (HEC-UNIL). Prior to Lyncée, he has worked several years as Director of R&D and production in two start-ups active in the field of medical devices. His experience enables him to understand production, quality, and researchers' issues and to develop products in accordance with customers' needs over a very wide spectrum of technologies and markets.

MenioSystems



Menio Systems is a leading developer and global supplier of instrumentation for precision metrology on the highest level. Based in Martinsried near Munich, Menio Systems is known for its Nobel Prize winning optical frequency comb technology. Their main product lines are optical frequency combs, solutions for time and frequency distribution, ultrastable lasers, terahertz systems, and femtosecond lasers. Menio Systems deliver state-of-the-art products to customers from industry and academia worldwide. To push the limits of the measurable, Menio Systems work closely with selected customers and develop new solutions for laser-based precision measurements. www.meniosystems.com



Jaroslaw Sperling (Business Developer) is passionate about applied photonics. He joined the company in 2021 with the aim of expanding its industrial and OEM operations, leveraging his experience from various sales and marketing roles in the photonics sector. Equipped with a strong foundation in femtosecond laser spectroscopy and credited with co-authoring over 40 scientific papers, Jaroslaw holds a PhD in Physical Chemistry from the University of Vienna.





Nanoscribe develops and produces 3D printers and grayscale lithography systems as well as specially developed printing materials and application-specific solutions for various microfabrication applications. The specialist for additive manufacturing of high-precision structures and objects on the nano-, micro- and mesoscale was founded in 2007 as a spin-off of the Karlsruhe Institute of Technology (KIT) and is part of the BICO Group since June 2021. More than 3,500 users and operators at top universities and innovative companies worldwide benefit from the groundbreaking technology and application-tailored solutions for 3D Microfabrication. Nanoscribe has built its strong market leadership position through high quality engineering and the agility to continuously develop its products to meet the high expectations of its customers. The wide range of possible applications in research, prototyping and industrial production processes especially addresses photonics technologies such as photonics packaging, microoptics, diffractive optics and waver-level optics. With Nanoscribe Quantum X align, we support precisely aligned 3D printing on optical fibers and photonic chips, enabling innovative approaches to photonic integration. This reduces coupling losses by matching mode fields at the component level rather than the chip level. Auto-aligned, highprecision 3D printing advances the fabrication of microoptical components directly on photonic chips and fiber cores. www.nanoscribe.com



Jörg Smolenski (Business Development Manager) graduated from RWTH Aachen and Fraunhofer ILT, holds a Master Degree in Mechanical Engineering, and has an international background spanning more than 20 years in industrial laser technology. He started as international sales manager at Lumibird in France (formerly Quantel), joined their US subsidiary to transfer product know-how, and then developed sales at High Q Laser in Austria. After 12 years with TRUMPF, he has experience in key account management, business development, laser technology, international sales and industrial laser applications including welding,

marking and micromachining. Jörg joined Nanoscribe in May 2019 as Business Development Manager. In this position, he focuses on mastering and replication technologies as well as integrated photonics.





Obducat is the world-leading supplier of lithography solutions enabling advanced micro- and nanopatterning of surfaces. Obducat develops and delivers innovative products and technologies focused on processes used in production and replication of advanced micro- and nanostructures. Obducat supplies its customers with process equipment as well as process know-how applied in both highvolume production and R&D. Obducat's products and services are aimed at costumers within various fields such as LED-, biomedical-, display-, MEMS-, semiconductor- and solar cell industries. **www.obducat.com**



Krister Magnusson (Sales Manager) has been working as sales and product manager at Obducat Europe GmbH since 2019. Having a history of 15 years in semiconductor industry, he has expert knowledge in Leading Edge lithography and processing as well as some experience in +100nm node technology.





Ocean Insight reflects our evolution from one of many suppliers of spectroscopy products to a singular provider of Applied Spectral Knowledge. Our purpose is to help customers define pressing challenges and deliver answers that promote a safer, cleaner, healthier future. Ocean Optics invented the miniature spectrometer, pioneering the concept of bringing the measurement to the sample. Now, your changing needs have inspired us to embrace new ways of innovating, collaborating and problem-solving. As Ocean Insight, we bring application-specific expertise, services, and solutions to define and solve important challenges across multiple industries and disciplines. We invite you to explore our integrated approach to customer need. We call it Applied Spectral Knowledge (ASK) - innovative spectroscopy hardware, software, and on-demand data delivery backed by deep category expertise. More simply, we're turning spectra into answers. **www.oceaninsight.com**



Jonas Buchmann (Sales Manager) brings Ocean Insight spectroscopy to a large portion of Europe's BioPharma, Semiconductor and Automotive industry. He regularly engages with Scientists, Engineers and Visionaries to make spectroscopy available to the masses. In the past 4 years, he covered DACH, BeNeLux and the United Kingdom ensuring that projects in all sizes come to fruition. Before joining Ocean Insight, Jonas was in customer facing commercial and engineering roles for OEM consumer goods and ISO13485 medical products. He started his career as an Engineer for energy storage systems and later transitioned to be a Photonics Engineer in automotive lighting. Jonas is well

established with a European customer base and his multi-industry experience helps him adapt to new customer challenges. Jonas holds a Master's degree in Physics with emphasis on Molecular and Biological Nanophotonics.





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. <u>www.opto.de</u>



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, Markus was a top athlete in swimming for many years and subsequently coached competitive teams. Markus is married, has two children and lives in Munich.





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. <u>www.optosigma.com</u>



Andreas Bichler (Reginal Sales Manager) has strong background in the Bio Photonics industry, specializing in driving growth and fostering strategic partnerships. Currently leading as Regional Sales Manager in the Munich Metropolitan area for over 3 years, he is dedicated to provide customer service on a high level. With a proven track record in sales engineering, he previously served as a dynamic Sales Engineer at Laser 2000 for 3 years, contributing to the company's success and expansion. In 2020, at OptoSigma, Andreas is responsible for providing Optics and Optomechanics consulting services to clients

across Germany and Western Europe. His technical knowledge, coupled with his customer-focused approach, make him an invaluable asset to the company.





Switzerland Innovation Park Innovaare is currently creating a unique ecosystem and an ideal location for technology-driven companies. Our ecosystem will connect the high-tech industry with research and creates the best conditions by delivering access to knowledge and expertise, and research infrastructures such as laboratories, clean rooms, and vibration-controlled areas. Switzerland Innovation Park Innovaare is located directly next to the Paul Scherrer Institute PSI, a member of the ETH Domain and Switzerland's largest research institute for natural and engineering sciences. www.parkinnovaare.ch



Amir Eldad (Ecosystem Partner) is an entrepreneurial ecosystem builder: helping governments, corporations and universities to leverage entrepreneurship and innovation towards business growth. Earlier in his career, Amir led Global Goto-Market for Israeli startups that aspired for global leadership. Starting in 2012, Amir took a Director of Global Partnerships role at MassChallenge, and in that context co-founded MassChallenge Israel, MassChallenge Switzerland and other global partnerships. After leaving MassChallenge in 2016, Amir re-activated A2E Partners, a boutique consulting firm, providing entrepreneurial ecosystem

services to corporations, universities and governments. Amir is a speaker and/or panelist in conferences and round tables focusing on innovation-driven economic development and corporate innovation. He is currently an ecosystem partner at Switzerland Innovation Park Innovaare.



Daniela Muthreich (Communication Manager) joined Park Innovaare in 2022 and is responsible for marketing and communication activities, including generating new communication opportunities, PR, branding, managing the website, social media channels, and organizing Park Innovaare's appearances on various partner platforms, as well as collaborating and expanding media contacts. As an experienced specialist in copywriting, content creation & and management, she has been responsible for various projects such as customer magazines, media events, or diverse content productions for companies from B2B, B2C, NPO, or the agency sector over the last 15 years.



Florian Gegier (Key Account and Community Manager) joined Switzerland Innovation Park Innovaare in March 2022 as Key Account and Community Manager, where he is responsible for all things commercial and organizational with the member companies of the innovation park, as well as events. He holds a degree from the faculty of economics of the University of Coimbra, Portugal, as well as an MBA from the University of Liverpool, UK. Florian's previous professional experience has been 13 years in technical sales management and business development roles for SMEs and startups in Switzerland and the US. He is a true global citizen, passionate skier, aviation geek, a foddie, and a voluntary firefighter.



Josef Küffner (Project Manager) works as Project Manager for the economic promotion agency in Canton of Aargau, Switzerland. He supports local companies in their dealings with the authorities and international companies with everything they might need for their new settlement in Canton of Aargau. He has a wide network within the life sciences industries and institutions, industry associations and the administration. Josef is a trained electrical engineer, with an Executive MBA from Universities Bern and Rochester (NY) and has more than 20years of business experience in various roles in the life sciences and medical devices industry.



Robert Rudolph (CEO) graduated from ETH Zürich in electrical engineering in 1995 and completed a second degree in industrial management in 2000. Following positions in start-ups and multinational corporations in the electrical and mechanical industry, he joined Paul Scherrer Institute in 2005 as head of technology transfer. From 2012 he was responsible on the management board of the Swiss manufacturers association Swissmem for the topics of education, innovation and digitalization. He supported in particular the industry sector "Photonics" and co-initiated the Innosuisse financed Innovation Booster "Photonics" and served on the board. In April 2023 he took over the responsibility as CEO of Park Innovaare, member of Switzerland Innovation.





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. <u>www.phaseform.com</u>



Kaustubh Banerjee (Founder and Chief Operating Officer) is an accomplished engineer and innovator. After obtaining his Mechanical Engineering degree from the University of California, Los Angeles, and PhD in Microsystems Engineering and Optics from the University of Freiburg, he co-founded Phaseform in 2020. He is credited as a key contributor to the company's revolutionary deformable phase plate technology and currently leads operations, focusing on production and technology development.





Photonics Precision Engineering is a global R&D partner for optical design and systems engineering. Our team of experts has many years of experience in the optical industry. In addition to supporting complex optical developments, PPE can also source and integrate customized optical designs and solutions. On-site staff training or co-development are part of the services offered by the Jena-based optical design consultancy. **www.ppe-jena.com**



Carolin Münzberg (Managing Director and Co-Founder) studied Optoelectronics at the Technical University of Ilmenau and graduated in 2013. She started her career at Jenoptik in the development of deep UV optical systems and later became project manager for laser material systems. Together with Jan Werschnik and Tim Baldsiefen she founded her own company for optical system design in 2021. As Managing Director, she is responsible for PPE's finances and is the main contact for project management and metrology projects.



Jan Werschnik (CEO & Co-Founder) holds a PhD in theoretical physics. Jan's career in photonics commenced as an optical designer at Jenoptik, where he ascended to the role of Head of Optical Design. Over a span of 12 years, he honed his expertise in optical design, system engineering, and program management, specializing in high-end optics for semiconductor inspection & lithography systems and bio-photonics. Recognizing the importance of innovation in driving progress, Jan shifted his focus to innovation and business development. His approach led to his appointment as Chief Innovation Officer at Jenoptik. In 2021, Jan, along with

co-founders Carolin Münzberg and Tim Baldsiefen, took a bold step in the world of photonics by establishing Photonics Precision Engineering GmbH. This innovative venture has rapidly grown, now boasting a team of seven experts specializing in optical system design. The company is poised to make a lasting impact in the field of photonics.

PHOTONIS Reveal the invisible



Photonis is a market-leading provider of technologies used in the detection and amplification of ions, electrons, photons and neutrons. We innovate and engineer the highest quality technology solutions for integration into a wide variety of applications, such as life-science and physics research, mass spectrometry, night vision optics, digital cameras, nuclear instrumentation, space exploration, and many others. With over 80 years of experience in partnering with our customers to provide the world's leading detection systems, Photonis has the experience to meet the specific challenges of the many markets we serve. <u>www.photonis.com</u>



Naud van Bunningen (Business Development Manager) finished his Master in Nanomaterials in Utrecht University in 2017. After which he did his doctorate at the same university at the group of Andries Meijerink until 2023 on the thermal properties of phosphor materials. He recently started at Photonis Netherlands to map the market of Single Photon Detectors.



Tom Bax (R&D Scientist) obtained his Master's degree in Applied Physics in 2021 from the University of Groningen, Netherlands. During his Master's program, Tom conducted research involving molecular dynamic simulations of self-replicating molecules for his thesis. In the same year, he began his career with an internship at Photonis, where he gained experience with advancing photonics and spectroscopy technologies, with a particular focus on Raman spectroscopy and time-resolved spectroscopy. He is currently working with single photon counting detectors with broad scientific and industrial applications.





Prospective Instruments develops and manufactures photonic-based multi-modal imaging solutions for research and clinical diagnostics. <u>www.p-inst.com</u>



Felix Wäger (Senior Scientist) is responsible for electrical and mechanical design and development and microscopy application. Graduated Mechatronics at the University of Applied Science Dornbirn in 2019 focusing on Robotics and Microtechnology, started PhD studies at LMU Munich in the field of Human Biology focusing on microscope techniques for medical applications.



The Paul Scherrer Institute - PSI is the largest research institute for natural and engineering sciences in Switzerland, conducting cutting-edge research in four main fields: future technologies, energy and climate, health innovation and fundamentals of nature. PSI develops, builds and operates complex large research facilities. Every year, more than 2500 scientists from Switzerland and around the world come to PSI to use our unique facilities to carry out experiments that are not possible anywhere else. PSI is committed to the training of future generations. Therefore, about one quarter of our staff are apprentices, post-graduates or post-docs. <u>www.psi.ch</u>



Mirko Holler (Scientist) is responsible for instrumentation for high-resolution hard X-ray 3D microscopy and related experiments. Before joining PSI, Mirko Holler studied Physics at ETH Zurich and finished with a diploma degree in experimental physics in the group of Prof. Ursula Keller. He continued his work in Keller's group developing a beamline for attosecond time resolved experiments. After finishing his PhD on "Attosecond strong field control" in 2010, he joined the Paul Scherrer Institute. Mirko's research focuses mainly on the methodological development of high-resolution 3D X-ray imaging, mainly on the instrumentation.

The goals are to simplify the application of the techniques and to achieve faster measurement times, increase resolution and sample volume. This also involves aspects such as sample preparation and radiation damage. Mirko regularly applies such instruments in measurement campaigns, recently focused to the non-destructive imaging of integrated circuits and brain tissue.



Qnami develops ultrasensitive magnetic imaging tools based on diamond quantum sensors. Our company vision is to mass-deploy diamond as a quantum platform addressing challenges across different industries ranging from semiconductor to bio-sensing and diagnostics. Its first product, the ProteusQ microscope, uses NV diamond sensors to quantitatively measure magnetic properties of a wide range of materials without perturbing their magnetic order. Launched in 2020, the ProteusQ is used worldwide not only in fundamental research to shed light on yet unknown magnetic phenomena in novel quantum materials, but also in the development of new, energy-efficient spintronics devices. The ProteusQ represents one of the first successful deployment of diamond quantum sensing, and Qnami is proud to have driven the technology development from its foundation

by Prof. Patrick Maletinsky to a sellable product. Founded in 2017, Qnami counts today 25 team members with 50+ years of quantum experience, and 15 nationalities. Qnami enthusiastically brings quantum sensing outside the lab to push the frontiers of the human knowledge about the nano-world. **www.gnami.ch**



Felipe Favaro de Oliveira (CTO and Co-Founder) is an expert in Materials Science with extensive hands-on experience on diamond quantum materials. He did his bachelor and master studies at the Universidade Federal do Rio Grande do Norte, Brazil, with a focus on nano-magnetisms. After that, he pursued a career abroad and received his PhD from the University of Stuttgart in 2017, with focus on the development of innovative processes to improve the quality of quantum sensors in ultra-pure diamond. Being excited by the maturity of this technology, Felipe decided to transition from academia and co-founded Qnami with the goal of pushing diamond-based quantum sensing out of the labs to solve real world problems. During his journey at Qnami, Felipe has put his unique know-how into improving the quality and reproducibility of the company's sensor technology.





RiverD International develops and brings to market dedicated solutions for unmet diagnostic needs, based on in vivo and ex vivo Raman spectroscopic tissue analysis. RiverD's Raman microspectroscopy and fiber-optics technology platforms excel in sensitivity and reproducibility and are readily adaptable to meet the requirements of a particular application. The gen2-SCA family of in vivo skin analyzers provides unique insight into the molecular composition of the skin with high spatial resolution, and enables the study of skin penetration properties of topically applied materials. This technology is in use worldwide by personal care industry, pharmaceutical industry and university medical centers. RiverD's fiber-optic Raman technology aims for applications in guided (robotic/laparoscopic) surgery and guided biopsy. **www.riverd.com**



Gerwin Puppels (Managing Director) is Associate Professor at Erasmusuniversity Medical Center, Rotterdam, The Netherlands. He is also the Founder, Chief Technology Officer and Managing Director of RiverD International B.V. Rotterdam.

SCHNEEBERGER



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SCHNEEBERGER linear technology has been at the pinnacle of the industry for a century, boasting a profound understanding of linear and profiled rail guides, as well as measuring systems for linear motion. Our accomplishments extend from developing custom positioning systems and producing innovative solutions made from mineral casting to providing high-performance ball screws - all testament to our exceptional capabilities. Over the course of a century, the name SCHNEEBERGER has established itself as a synonym for innovation, extreme precision, and excellent quality. Our broad expertise encompasses linear guides, measuring systems, and racks to high-performance ball screws and mineral casting, not to mention our high-precision positioning systems. These can be applied under atmospheric conditions as well as in a vacuum. Our presence is truly global, with an extensive network of sales companies and partners always within reach. However, this is only one

aspect of our strength. Our true backbone consists of our dedicated, customer-oriented, and unique employees who propel us to the apex of the world. We take immense pride in being a global leader in numerous application fields, including the machine tool industry, semiconductor industry, medical technology, bioscience, and robotics. Our pioneering spirit is also reflected in our status as one of the first and largest providers of crossed roller guides and integrated measuring systems. At SCHNEEBERGER linear technology we are committed to continuous evolution and delivering the best to our customers. <u>www.schneeberger.com</u>



Aleksej Martin (Area Sales Manager) was born 1978 in Moscow / Russia, in Switzerland since 1991. Since 2021 with Schneeberger AG as Area Sales Manager, Key Account Management, Business Development. His current focus is on MedTech and Photonics and overlapping industry sectors.





SEDI-ATI Fibres Optiques, bringing light to your customized, complex or extreme environment is our challenge! Since 1951, our mission is to design and build turn-key solutions to enable our customers to bring light in any environment, whatever their constraints are! SEDI-ATI offers achromatic multimode couplers, multimode wavelength division multiplexers, fiber optic hermetic feedthroughs, bundles & arrays, and medical probes. Our fiber assemblies are used in applications in extremely aggressive and hazardous environments such as those found in the oil and gas industry, in nuclear plants, in electric utilities, in the military and aerospace, or in the medical field. The applications of our products and solutions are as diverse as optical sensors, opto-pyrotechnics, cryogenics, or high-power lasers that can cut and weld steel. **www.sedi-ati.com**



Emmanuel Leclerc (Technical Sales Engineer) is an Optronics engineer from Paris-Saclay University, has held several different positions, giving him extensive experience in photonics. As project manager at Quantel, he was involved in the development of monolithic and compact solid-state lasers for scientific and laser cleaning applications. Then he was export manager for the Asia-Pacific area. Then he occupied different sales positions at CVI Laser Optics and Videojet. He joined SEDI-ATI as a Technical Sales Engineer to take in charge sales in Eastern and Southern Europe.

SENSIRION



Sensirion is one of the world's leading developers and manufacturers of sensors and sensor solutions that improve efficiency, health, safety, and comfort. Founded in 1998, they now employ around 1'000 people at their headquarters in Stäfa, Switzerland and in numerous international subsidiaries. Their sensors can be used to measure a wide range of environmental parameters and flow rates precisely and reliably. The company's aim is to make the world smarter with pioneering sensor technology and as a pioneer in innovation, Sensirion develops solutions for the specific needs of customers and partners from the automotive, industrial, medical technology and consumer electronics markets, as well as high-quality products for cost-efficient mass production. **www.sensirion.com**



Alexandra Sereda (Business Development Manager) has received her PhD in physics from the Institut d'Optique (Palaiseau, France) in 2014, where she worked on plasmonic-based sensors for biomolecular interaction analysis. She then started her career in R&D in Switzerland at Biovotion, in the space of wearables for remote patient monitoring, before joining the Innovation Management team at Philip Morris, where she was responsible for technology scouting in sensors and biosensors. She is currently working within the innovation department at Sensirion AG, where she focuses on Business Development activities, exploring new markets and new applications for novel sensor technologies.



Gian Lorenzo Paravicini Bagliani (R&D Engineer) has received his PhD in physics from ETH Zurich in 2019 and held a postdoc position at the University of Strasbourg before starting at Sensirion AG. He has 10 years of experience in R&D on a broad range of opto-electronic devices, operating in the UV, VIS, infrared and THz. He is currently in the innovation department at Sensirion AG, where he scouts and develops new optical sensors, that aim to push the size, cost and accuracy barrier thanks to Sensirion's unique in-house semiconductor manufacturing capabilities.





Spiden is a Swiss deep-tech start-up located outside of Zürich that is pioneering a light- and MLbased technology platform for continuous, non-invasive clinical-grade monitoring of biomarkers and drug concentrations in tissue, blood, and other bodily fluids. Spiden's label-free, optical monitoring platform supports a range of medical use cases including monitoring of glucose for diabetics, patient monitoring in the ICU or during dialysis, imaging applications such as cell-based assays or endoscopic tissue characterization, and biotech applications in bioreactor monitoring. To develop this technology, Spiden has assembled a multidisciplinary team of scientists and engineers with expertise in medicine, photonics, chip design, electrical engineering, biomedical engineering, microfluidics, system integration, and machine learning. The team has already created a proprietary concept demonstrator for biomarker monitoring, which is capable of measuring glucose through the skin. Spiden combines deep experience in entrepreneurship with MedTech product development and plans to launch a next-generation wearable for the transcutaneous monitoring of glucose, initially targeting health-aware consumers. The product portfolio will later include a monitoring device for diabetics and expand further by shipping over-air updates that unlock new markers to be monitored with this platform. <u>www.spiden.com</u>



Jens Hofrichter (Manager Optics & Photonics Engineering) is with Spiden since 2022, where he is currently leading the miniaturization efforts. He was previously with IBM Research – Zurich and ams-Osram. He has more than 15 years of experience in integrated photonics R&D, ranging over silicon photonics, radiation hard photodiodes for computed tomography scanners, hybrid bonding for stacked BSI imaging sensors, photon counting for medical imaging, miniaturized cameras for AR/MR applications and microphones. He is the (co)-author of more than 30 patents. He holds a MSc in Electrical Engineering from RWTH Aachen and a PhD in Photonics from TU Eindhoven.





SPIO Systems has a new optics manufacturing platform (SPIO) that brings down the high assembly costs and solves the lack of scalability in high volume manufacturing of optical devices. SPIO is Stacked Planar Integrated Optics, and the core technology is Nano Imprint Lithography [NIL] of micro-optics in polymer on glass wafers and stacking wafers together into a multi wafer stack, enabling parallel production and assembly of thousands of optical devices in one operation. SPIO is erasing 75% of the assembly work and due to parallel processing cutting cost on unit price. SPIO Systems is an OEM manufacturer that disrupt the way optics are produced to the future needs. **www.spiosystems.com**



Henrik Madsen (CEO) holds a master's 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 SPIO running on the same wafer level revolution as the electronic chip ran on.

SUSS_MicroOptics



SUSS MicroOptics is a global leader in the field of micro-optics manufacturing. Established in 1999 in Neuchâtel, Switzerland, we have been pioneering the art of producing tailored refractive and diffractive micro-optics for a wide range of applications including imaging, sensing, and beam-shaping applications. With our profound expertise in optical design, engineering, wafer-level manufacturing, metrology, and packaging, we are providing comprehensive support to our valued customers. From the initial concept to large-scale production, we stand by your side, ensuring a seamless journey. We excel in integrating various process technologies, simplifying device assembly, and enhancing traceability. Through the incorporation of alignment and identification marks, we enhance efficiency and enable accurate tracking. These exceptional features grant you the flexibility to design optical systems that optimize performance and achieve your desired functionality. At SUSS MicroOptics, we understand that every detail matters, when it comes to delivering superior micro-optics is ISO9001 and IATF 16949 certified. <u>www.suss.ch</u>



Auri Ripoll (Market Intelligence & Strategic Marketing Manager) received a Bachelor's degree in Biology at the University of Barcelona and a Master's degree in Marketing Management at EAE Business School. She started her career as a scientific professional working for over nine years as an environmental consultant. After her Master's, Auri expanded her career into marketing, where she developed the role of Marketing Manager, first in a chemical distribution company and afterward at the European Photonics Industry Consortium (EPIC). In both workplaces, she was responsible for the management and execution of the annual marketing plan, leading the development and implementation of effective and

integrated marketing and communications strategies globally. At SUSS MicroOptics she is responsible for identifying new business opportunities within the marketplace and generating innovative ideas to promote the products and services of the company.



Wilfried Noell (Senior Principle Scientist) is responsible for R&D projects, advanced technology, optical designs and special client requests with his dedicated team of scientists and engineers. Before joining SUSS MicroOptics, he was an R&D scientist and process engineer in the industrial x-ray business unit of the COMET AG, Switzerland. From 1994 through 2012, he worked on InP PICs, Silicon Photonics (SiPH), Optical MEMS (MOEMS) and MEMS actuators at TU Darmstadt, IMM Mainz, IMT/Uni Neuchâtel and EPFL, Switzerland, respectively. Since 2021, he is a member of the Swiss NTN Photonics Innovation Board.







Swissmem Photonics Industry sector is a network for developers, manufacturers and providers of photonics and optics components and systems as well as for representatives from universities and research institutions. We bring together stakeholders from science, industry and society to find and boost product & process innovations. Furthermore, we are the leading house for the Innovation Booster Photonics – an innovation funding instrument to foster science-based and sustainable radical innovation to help Swiss companies and organisations to discover novel solutions with user-centric methods and agile learning cycles. <u>www.swissmem.ch</u> / <u>www.ntnphotonics.ch</u>



Selina Casutt (Managing Director) graduated in physics and holds a PhD in ultrafast laser physics (both ETH Zürich). With a decade-long career in the photonics industry, she has valuable experience as a project manager and team leader, focusing on optical systems e.g. for endoscopic applications. She is adept at managing customer relationships for technical aspects and customizations and to provide appropriate innovative solutions. She currently serves as the Division Manager at Swissmem and is also the Managing Director at Innovation Booster Photonics.

SWISS*PHOTONICS



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.

Tampere University



Tampere University (TAU) was launched in January 2019 by the merger of Tampere University of Technology and the University of Tampere. TAU consists of seven faculties, about 4 200 staff, 281 professors, over 2 800 researchers and roughly 23 000 students. The university has an ambitious strategy called "Together for a sustainable world", which emphasizes its role and responsibility in solving global problems. To this end, photonics has been defined as a core strategic research area at TAU. We unite complementary topics spanning from fundamental aspects in ultrafast- nonlinear-and quantum-optics, advanced photonic materials, photonic integration, laser technologies, to applications in sensing, spectroscopy, and medical technology. Our photonics community comprises about 150 researchers working in 11 research groups. We play a catalyst role at national level being the coordinator of the Flagship on Photonics Research and Innovation (PREIN), and of the national infrastructure photonics platform, FinnLight. Our infrastructure and related expertise are recognized at European level. Our comprehensive capabilities concerning molecular beam epitaxy and the development of III-V optoelectronic devices have a unique positioning in the European photonic technology ecosystem and have been the cradle of the dynamic laser industry in Tampere.





TEMATYS is a team of highly qualified experts, committed to providing the most accurate and updated information on markets and applications in the fields of Optics, Photonics, Sensing and Quantum. Our clients are companies of any size, from international groups to SMEs and start-ups. 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 clusters and public agencies. **www.tematys.fr**



Susmita Sridhar (Photonics Market Analyst), PhD, has a doctoral degree in Optics, Photonics and Image processing from Institut Fresnel, Aix-Marseille University (AMU), Marseille and The Institute of Photonic Sciences (ICFO), Polytechnic University of Catalunya (UPC), Barcelona. Her research career revolved around developing and optimizing optical imaging techniques such as Microscopy and Nanoscopy (SIM, SPT, PALM/STORM), Wide-Field Diffuse Optical systems (Polarization-gated optics), Hyperspectral Imaging etc. for various biomedical applications. For the past 2 years, she has worked at TEMATYS as the Report Production Manager & handles all the European Projects at TEMATYS.

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 organisation'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. <u>www.thorlabs.com</u>



Nicola Reusch (Spectroscopy Sales & Solutions Manager) studied Chemistry in Marburg and received her PhD in Physical Chemistry working with femtosecond lasers ionization coupled with mass spectrometry. In 2016 she joined Thorlabs as Technical Support Engineer and after some years as Assistant Team Lead Tech Support und Teamleader Technical Sales she is now leading the Spectroscopy Sales & Solutions team that provides application support for the broad spectroscopy portfolio Thorlabs offer, e.g. grating-based spectrometers, optical spectrum analyzers, Fabry Pérot interferometers, multipass gas cells, QCLs, photoacoustic cells and Raman spectrometers.



TOPTICA



TOPTICA develops and manufactures high-end laser systems for scientific and industrial applications. The portfolio includes diode lasers, ultrafast fiber lasers, terahertz systems and frequency combs. These systems are widely used in quantum optics and spectroscopy, biophotonics and microscopy, as well as test and measurement. **www.toptica.com**



Luisa Hoffman (Product Manager Ultrafast Fiber Lasers) has a Master of Physics degree from Ludwig-Maximilians University in Munich, Germany. She worked with ultrafast lasers at the group of Professor Ferenc Krausz at the Max-Planck Institute for quantum optics. After that she pursued several industry positions in consulting and tech companies. She works since January 2023 as product manager ultrafast fiber lasers in biophotonics & materials for TOPTICA Photonics in Munich Germany.





UpNano is a system provider for high-resolution 3D printing. In addition to the development, production and manufacturing of printing systems and the corresponding operating software, UpNano offers printing materials and accessories optimized for the process. The lead product NanoOne is the fastest high-resolution 3D printing system on the market. It is based on multiphoton lithography and combines the precision of 2-photon polymerization (2PP) with an unmatched throughput of up to 450 mm³ per hour. This makes the system suitable not only for scientific research approaches and multi-user facilities but also for the batch and small series production of industrially applied microparts. With UpNano's cutting-edge technology it is possible to print objects with sizes ranging from the sub-micrometer (150nm) up to the centimeter range and up to 42 mm in height – within times never achieved before. Thus, we can offer customers a technology that not only provides the renowned fine resolution of 2PP, but also for the first time closes the gap between established 2PP and micro SLA methods. Thanks to the innovative edge of our technology, we can count research institutes and industrial customers from the fields of optics, consumer electronics and material development as well as medical engineering and cell/tissue research among our customers. Based on this high variety of projects and the diversity of our team, we are able to provide customers with know-how and support from the very first idea to the implementation of the technology. www.upnano.at



Bernhard Küenburg (CEO) received his PhD in organic chemistry at the TU Wien in 1991. He has over 20 years of executive management experience in the pharmaceutical and medtech industry and has developed several start-up companies. He has helped to found UpNano as a business angle and manages UpNano as CEO since its operational start over 4 years ago.





Vital3D Technologies is a leading provider of laser-based 3D bioprinting solutions to produce functional human organs. Our innovative technology uses lasers to precisely deposit living cells and biomaterials in 3D patterns, allowing us to create functional, scalable, and reproducible tissue constructs. Our focus is on developing 3D bio-printed kidneys, which have the potential to revolutionize the treatment of kidney disease and other related conditions. By partnering with leading researchers and medical institutions, we aim to bring our cutting-edge technology to the forefront of the bioprinting industry and make a meaningful impact on patient care. www.vital3d.eu



Vidmantas Sakalys (CEO) is the top-level business manager with broad working knowledge in technology innovations within ITT, energy, lasers and bio-tech fields. Education in computer engineering and huge practical experience of 20+ years in ITT management roles and 10+ years in photonics innovation management. Founded and led laser research start-up Femtika. Served at the management boards in laser, telecommunications and psychology organisations.



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