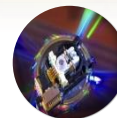
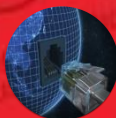
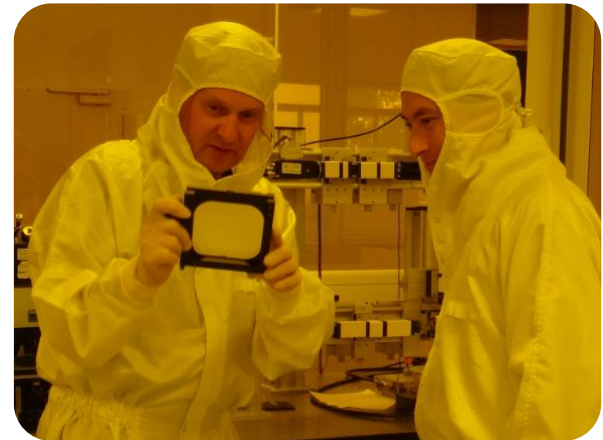


# Outreach Switzerland

27 June 2013





Andy Carter



Bruno Mourey



Drew Nelson



Hans-Joachim Grallert



Heinz Seyringer



Kurt Weingarten

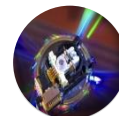
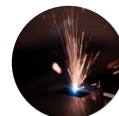


Maurizio Zuffada

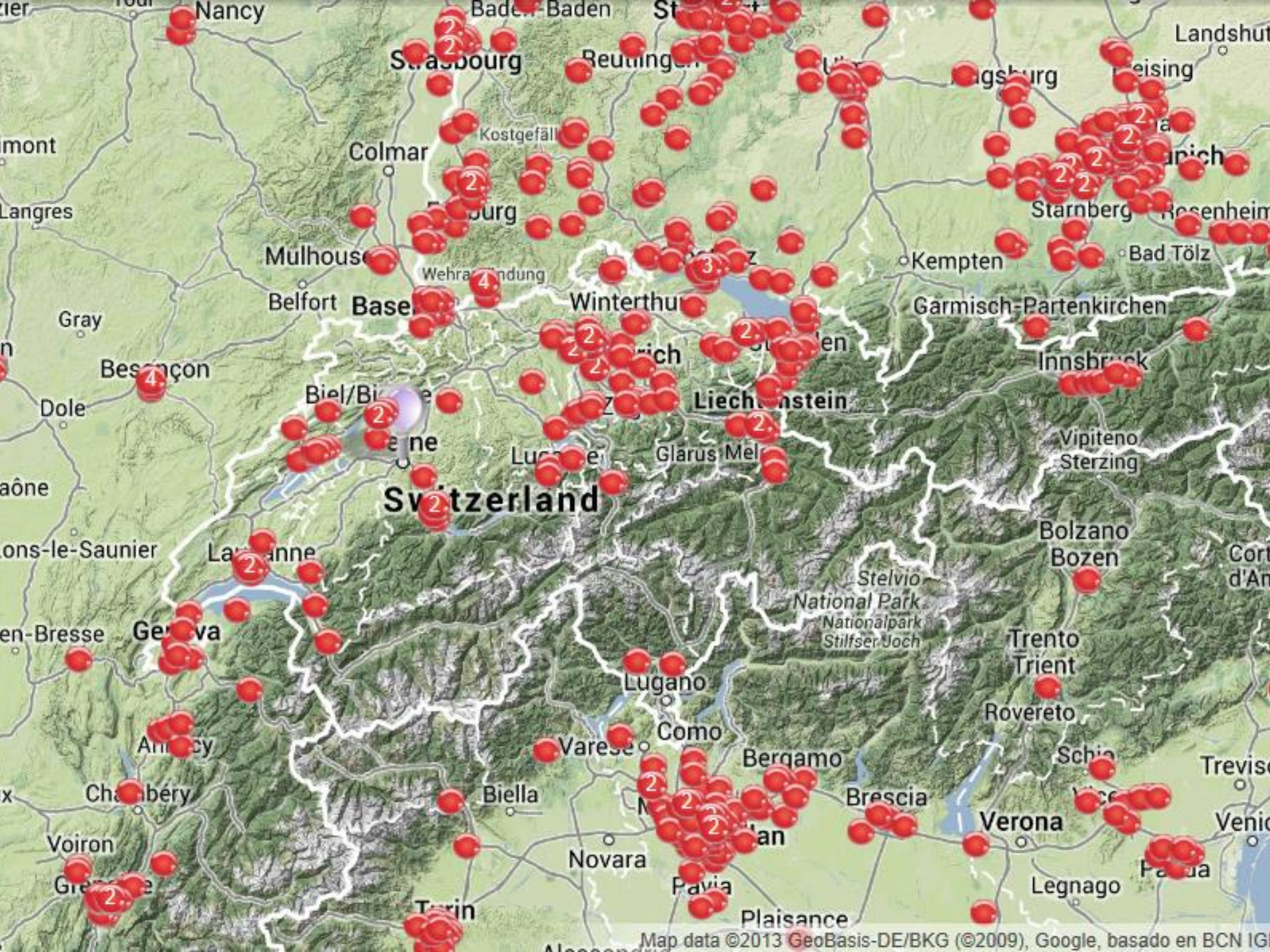


Michael Heuken

- Andy Carter, Chief Scientist, **Oclaro**
- Bruno Mourey, VP Optics and Photonics, **CEA LETI**
- Drew Nelson, President & CEO, **IQE** (President of EPIC)
- Hans-Joachim Grallert, Director, **Fraunhofer HHI**
- Heinz Seyringer, Head of Research Collaborations, **Zumtobel Lighting**
- Kurt Weingarten, Founder and CTO, **Time-Bandwidth Products**
- Maurizio Zuffada, Director Advanced R&D, **STMicroelectronics**
- Michael Heuken, VP Corporate R&D, **Aixtron**









	A	B	C	D	E	F	G	H
	A5086		Company					
6	<b>Organization</b>	<b>Name</b>	<b>Address</b>	<b>City</b>	<b>Zip Code</b>	<b>Country</b>	<b>Website</b>	<b>Product/Techn</b>
5053	Company	Yorkshire Photonic Technology Limited	Unit 52, Commerce Court, Chal	Bradford,	BD4 8NW	United Kingdom	http://www.yorkp	Optical component
5054	Company	Yorkshire Photonic Technology Ltd.	Holmfield Mills HM14	Halifax	HX3 6SN	United Kingdom	http://www.yorkp	Coatings; Optical Co

**EPIC compiled 5000 company entries, publicly available, in Microsoft Excel format**

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

**135 entries in Switzerland (118 for companies)**

5061	Company	Zeeko Ltd	4 Vulcan Way, Vulcan Court, He	Coalville,	LE67 3FW	United Kingdom	http://www.zeeko	Optical Polishing ,
5062	Company	ZEISS CARL SPA	Viale delle Industrie 20	Arese	20020	Italy	http://www.zeiss	Active Optical Devi
5063	Company	Zeiss, CARL Ltd	15-20 Woodfield Rd, Ramsey,	Welwyn Garden City	AL7 1LU	United Kingdom	http://www.zeiss	optical scientific ed
5064	Company	Zerbetto Illuminazione S.p.A.	Via Pellico 5	Padova	35129	Italy	http://www.zerbe	Light Sources
5065	Company	ZeroPoint Chillers	Consul Road 8	Rugby	CV211PB	United Kingdom		
5066	Company	ZETT Optics GmbH	Saarbrueckener Strasse 263	Braunschweig	38116	Germany	http://www.zett-	Light Sources; Optic
5067	Company	ZEUTEC Opto-Elektronik GmbH	Kieler Straße 211	Rendsburg	24768	Germany	http://www.zeute	Cameras; Detectors
5068	Company	Ziem Imaging GmbH	Donaustrasse 31	Nurnberg	90451	Germany	http://www.ziehn	Cameras
5069	Company	Zimmermann & Schilp Handhabungst	Budapester Straße 2	Regensburg	93055	Germany		Photovoltaic sector
5070	University	Zinir Ltd	East Sussex Enterprise Hub, M	Eastbourne, East Su	BN21 4ST	United Kingdom	http://www.zinir	product developme
5071	Company	ZIRCOM DATA COMMUNICATIONS LTD.	Worcester Road Zircom House	BROMSGROVE	B61 7ER	United Kingdom	http://www.zirco	Fiber Optics
5072	Company	Z-Laser Optoelektronik GmbH	Merzhauser Strasse 134	Freiburg	79100	Germany	http://www.z-las	Lasers
5073	Company	Zodion Ltd	Zodion House, Station Road,	Sowerby Bridge,	HX6 3AF	United Kingdom	http://www.zodid	Control Solutions ,
5074	Company	Zoller + Fröhlich GmbH	Simoniusstraße 22	Wangen im Allgäu	88239	Germany	http://www.zofre	Information Storage



5083	Company	Zweicom	Renneckermühle 1	Jagstzell	73489	Germany		Fiber To The Home
5084	University/Resea	Zygmunt Skladanowski Institute of Pl	Zygmunt Skladanowski Institut	Warsaw	00-908	Poland	http://www.ifpilm.waw.pl/en_ipplm.	
5085	Company	zygoLOT GmbH	Im Tiefen See 58	Darmstadt	64293	Germany		
5086	Company	Zytronic Displays Ltd	Whiteley Road	Blaydon, Tyne and V	NE21 5NJ	United Kingdom	http://www.zytr	Displays - touch scr



# Opportunity to Engage Companies In EU Funding

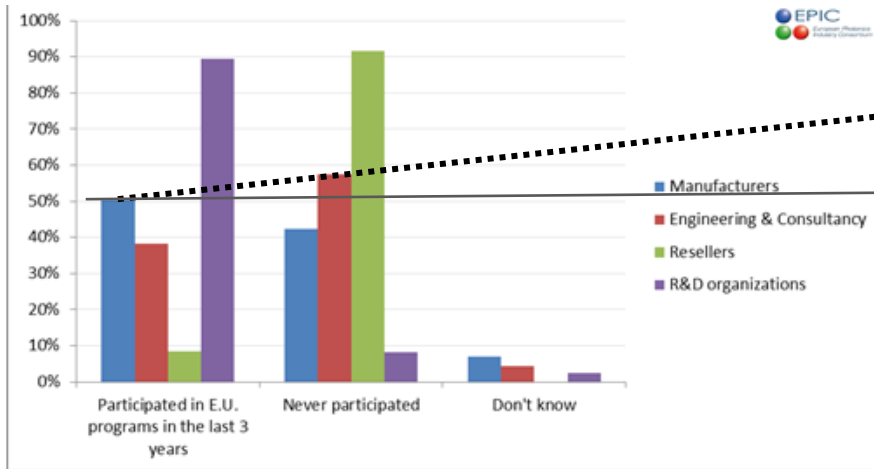


Figure 17 : Percentage of organizations participating in EU programs in the last 3 years

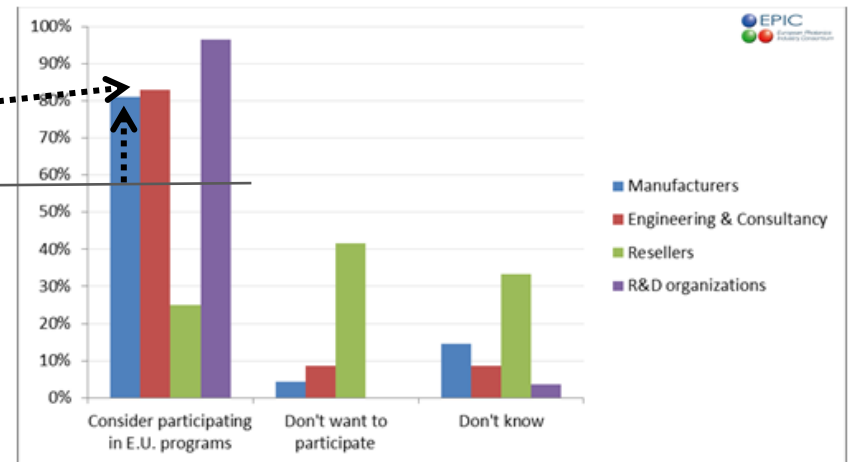
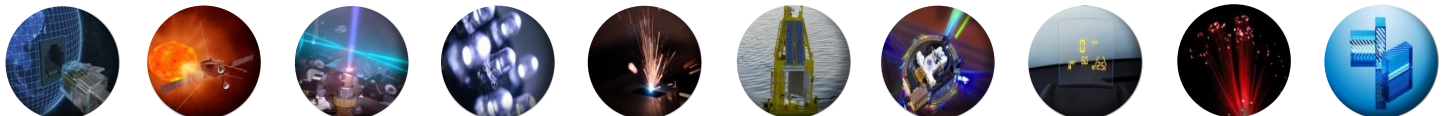


Figure 18 : Percentage of organizations which consider participating in EU programs





## Photonics Research Funding in Europe

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### Webinar on EU funding on Friday 28 June at 15:00 (Belgium time = CET)

To attend simply go to <https://join.me/ciaotechpno> The purpose is so you know of the plans for getting an early start with Horizon ...

posted 5 days ago

**Antonello Vannucci** 5 days ago • Antonello likes this.



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**Join the LinkedIn group on "Photonics Research Funding in Europe"**  
<http://www.linkedin.com/groups/Photonics-Research-Funding-in-Europe-4660030>



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This open group aims to serve as an information hub and a professional networking platform for those organisations and individuals involved, or considering to become involved, in funding in the field of Photonics at European level. Share call for proposals, find partners, ask questions related to projects and grants.

## About this Group

**Created:** October 6, 2012

**Type:** Professional Group

**Members:** 454

**Owner:** [Carlos Lee](#)

**Website:** <http://www.epic-assoc.com/epic-programme...>

## Group Members in Your Network



**Peter Van Daele**  
Prof. at IMEC - Ghent University

1st



**Peter Visser**  
Manager Open Innovation Projects at Philips Lighting

1st



**Thomas Rettich**  
Research Coordination

1st



**Gunther Vollrath**  
CEO at AIFOTEC AG

1st



**Stephen Webb**  
Owner, RTD Services

1st



**Thierry Robin**  
Partner at Tematvs - Technology & Market Analysis

## Group Statistics

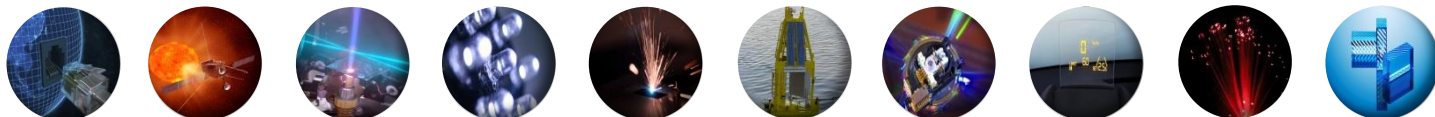
**CHECK OUT INSIGHTFUL STATISTICS ON THIS GROUP**

Director	1
Manager	1
Entry	1

MEMBERS

# 3,759

[View Group Statistics »](#)







**EPIC Consortium Members Directory**  
Update: 19 June 2012

**3SP Group**  
Source of Smart Solutions

3SP Group is a provider of innovative optical products and solutions for laser, sensor and telecommunication markets. It also provides instrumentation and integrated solutions for process and environmental monitoring systems. We offer single mode 980nm and 14xx nm pump modules as well as 1550nm DW and CW, modules powered by In-house GaAs and InP optoelectronic chips, optical amplifiers and high power fiber lasers and at 1.0um and 1.5um, pulsed or CW, to cover telecom, industrial, scientific, medical and LIDAR applications, and passive optical components based on fused fiber technology and fiber Bragg gratings, for telecommunication (filters, GFF, demultiplexers), and for high power devices (combines, FSO reflector, filters, collimators, FWA...) dedicated to industrial, medical and defense markets. [www.3spgroup.com](http://www.3spgroup.com)



ACREO Swedish ICT provides cutting edge resources and technologies within Sensors and Actuators, Power Electronics, Digital Communication and Life Sciences. Superior areas include Fiber optics, optoelectronics, broadband technologies, printed electronics and sensor systems. ACREO Swedish ICT has 145 employees in Kista, Gothenburg, Norrköping and Ludvika. ACREO is a part of Swedish ICT. [www.acreo.se](http://www.acreo.se)



Aifotec offers significant and industry-proven experience in a variety of Photonic Development Services and Photonic Manufacturing Services as used in today's CMOS photonic applications. Aifotec's Hybrid Integration Technology experience allows packaging solutions across leading-edge process benches such as glass, ceramic, polymer and silicon, using either laser bonding, as well as different gluing technologies. In addition to this know-how Aifotec provides the equipment for the handling as well as packaging of material from single-die attachment, flip-chip on 6 to 8 inch wafers and pigtailed optical subassemblies. [www.aifotec.com](http://www.aifotec.com)

**AIM**

AIM INFRARED-MODULE develops, manufactures and sells quantum Infrared detectors and thermal sights as well as Stirling cooling systems. The high-tech company engineering, microelectronics, precision engineering under one roof customer specific solutions and beyond. AIM products are in use worldwide. AIM products are in use. They are also utilized in research environmental protection, space

- NEMIS (New Mid-Infrared Source)
- SUBLINE (Midway Duplex VCSELs using Sub-Wavelength Gratings)
- VSIIT (Vertically Integrated System for Information Transfer)
- MERLIN (Multi-Gigabit Scalable & Energy Efficient On-Board Digital Processors Employing Multilayer Vertical Embedded Optoelectronic Elements)
- EUROFOCUS (Europe's Research Network on Photonics Systems)
- PHASORS (Phase-sensitive amplifier systems and optical regenerators and their applications)

**CIP**

IP Technologies develops optoelectronic technology for ICT applications. The company has design and fabrication capabilities for Indium Phosphide, Silica planar and hybrid integrated optical devices. In January 2012 IP became a wholly owned subsidiary of Huawei Technologies Ltd. [www.huawei.com](http://www.huawei.com)



COBRA, founded in 1994, is the Inter-University Research School on Communication Technologies Basic Research and Applications. In COBRA, research groups from the disciplines of physics, electrical engineering and chemistry from Delft University of Technology and UvA University of Amsterdam in The Netherlands come together, combining their efforts in education and research. The activities range from basic research in physics on novel materials and devices to research on communication systems and system applications. <http://vdz.ais.eur.nl/en/coBRA/home>

**csem**

CSEM (Swiss Center for Electronics and Microphotronics), founded in 1994, is a private applied R&D center. Our 400-strong workforce specialises in micro- and nanotechnology, systems and surface

**RIXTRON**

RIXTRON is a provider of deposition equipment to the semiconductor industry. The company's technology solutions are used by a diverse range of customers worldwide to build advanced components for electronic and opto-electronic applications based on compound, silicon, or organic semiconductor materials, as well as polymers, carbon nanotubes, graphene and other nanomaterials. Such components are used in solid state lighting, fiber optic communication systems, wireless and mobile telephony applications, optical and electronic storage devices, computing, display and lighting, flat panel display applications, energy harvesting and storage as well as a range of other leading-edge technologies. [www.rixtron.com](http://www.rixtron.com)



Advanced Fiberoptic Engineering Ltd (AFE) designs and manufactures fiberoptic solutions to meet specific customer requirements. We specialise in high performance products and can supply prototypes through to high volume. We package a wide range of active components including laser diodes, photodiodes, LEDs, avalanche photodiodes and can provide receptacles, fibre pigtailed components together with bidirectional modules, laser combiners etc. We also have assembly capabilities combining 3D design tools, electronics design, fibre splicing, fibre termination, environmental testing and our own mechanical workshop. We supply market leaders in instrumentation, telecommunications and sensors. We are actively seeking new markets where we can further develop our technology. [www.afe-uk.com](http://www.afe-uk.com)



Aleda is a developer of LEDs based on disruptive epitaxial Gallium-Silicon technology. It manufactures LEDs on 6-inch (300mm) silicon wafers. The cost of Aleda's LED 3D chips based on epitaxial is expected to be four times less than traditional planar (2D) LEDs. Aleda solves the important cost issue. In the very large and growing LED market, the Aleda LED technology, made on large-die silicon wafers and with very low materials cost, represents a cost-disruptive solution. The technology is compatible with silicon CMOS technology and will be manufactured directly in existing high-volume silicon foundries. [www.aleda.com](http://www.aleda.com)



ALPHANOV is the Optics and Lasers technological capex of the French Route des Lasers\* competitiveness cluster. Supported by the Aquitaine Region, it operates as a private, non-profit organization specialised in technology transfer in close collaboration with CEA-CSTA, CNRS, and Bordeaux universities. ALPHANOV provides the technical resources and expertise required to fulfil the R&D challenge of innovative projects in collaboration with SILIRIS and laboratories. Located in the Bordeaux area, ALPHANOV employs about 30 highly skilled Researchers, Engineers and Technicians. Its 700-m<sup>2</sup> facility hosts several dedicated technology platforms, specific laser and metrology systems available for projects in every field of optics and lasers. ALPHANOV conducts scientific research in photonic technology. In close collaboration with academic laboratories from the Bordeaux University. The



Edmund Optics (EO) produces optics, imaging, and photonics technology. Supporting the R&D, electronics, semiconductor, pharmaceutical, biomedical, and defense markets around the globe, EO products are used in a variety of applications ranging from DNA sequencing to retail eye scanning to high-speed factory automation. EO employs over 70 optical, mechanical, and imaging engineers throughout the world who develop new products and assist customers with project specification, design, manufacturing, and development of imaging optics, illumination and machine vision solutions. EO's global manufacturing facilities offer the most innovative equipment and resources available, including MRF polishing, glass polishing, isochoric generation, clean room assembly, and advanced metrology. With over 70 years of experience, 26,500 standard optical components, its custom manufacturing capabilities, combined with a global distribution network Edmund Optics has earned it the position of the world's largest supplier of off-the-shelf optical components. [www.edmundoptics.com](http://www.edmundoptics.com)



EOLITE Systems has been launched in 2004 to provide new photonic solutions in instrumentation and laser systems to the scientific and industrial communities. EOLITE Systems has built up a solid know-how in Q-switched fiber lasers and developed original and patented solutions to produce short pulsed laser pulses with very excellent beam quality. New technologies such as the rod-type fiber were introduced to reach high average power/frequency tunable pulsed fiber lasers. These important developments enabled for the first time to produce high power harmonics (green and UV) and make EOLITE to be the pioneer in this field. [www.eolite.com](http://www.eolite.com)



systems enable the production of integrated circuits of microchips meeting the electronic consumer's demands such as increased functionality, reduced size and cost/reduction. The process is based on a unique multi-beam laser diode technology, which has very low thermal impact to the material achieving a very high productivity. Our solutions enable to reduce manufacturing cost significantly. [www.beardling.com](http://www.beardling.com)



Amplitude Systems develops and manufactures diode-pumped ultrafast solid-state lasers for scientific and industrial applications. Amplitude Systems, together with its sister company Amplitude Technologies, is the only company which offers all ultrafast laser technologies available today, from industrial fiber lasers to high energy femtosecond class Ti:Sapphire lasers. Industrial application include: Analytical chemistry, Lab-on-chip, Ophthalmology, Medical devices, Micro-machining, Internal engraving. Scientific applications include: Cellular Imaging, Pump-probe, Nano-surgery, Analytical chemistry, Lab-on-chip, Free Electron Lasers. [www.amplitude-systems.com](http://www.amplitude-systems.com)



Advanced Semiconductor Engineering (ASE) is the world largest provider of package assembly and test services for the semiconductor industry. ASE has a wide package portfolio including leadframe, laminate, flip-chip and wafer level technologies. ASE Europe serves the company's European customer base with focus on industrial, automotive, communications, and MCMV and sensors markets. The applications include optical sensors, lighting and optical communications segments which are expected to grow in the coming years. [www.aseglobal.com](http://www.aseglobal.com)



ASE Optics Europe provides optical engineering talent for world-class optical systems. Do you need help with a challenging optical application? We create applied engineering solutions for a wide range of applications. Based in Barcelona, our team has the expertise to tackle the most complex of challenges. As an RPO Company, ASE Optics Europe helps customers move from lens and assembly design to prototype to full production if needed. Research/Production Optics offers expanded access to technology, facilities and testing to speed our customer's time to market. [www.aseoptics.eu](http://www.aseoptics.eu)



The Bosch Group is a global supplier of technology and services, active in the fields of automotive technology, energy and building technology, industrial technology, and consumer goods. According to preliminary figures, more than 305,000 associates generated sales of 52.2 billion euros in 2012. The Bosch Group comprises Robert Bosch GmbH and its more than 300 subsidiaries and regional companies in some 60 countries. The worldwide development, manufacturing, and sales network is the foundation for further growth. Bosch spent some 4.5 billion euros for research and development in 2012, and applied for more than 4,700 patents worldwide. [www.bosch.com](http://www.bosch.com)

(RPO), and with its partners (small) business, research company between foundry as well, we can support you with gear and polymer. Photonics

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Available for download on [www.epic-assoc.com/database](http://www.epic-assoc.com/database)  
or contact [info@epic-assoc.com](mailto:info@epic-assoc.com)



The Center for Physical Sciences and Technology (FTMC) is the largest state research institute in Lithuania with ~ 750 employees, including 230 PhD and 55 PhD students, and 19 departments, working in different field of physics, chemistry and technology. The Department of Laser Technologies cover nano-photonics, laser science and applications, including modelling of nano-photonic structures, development of optical components for lasers, new design of fiber and solid-state based lasers, their application in the precise material processing and laser-based technology

implementation. The Department of Optoelectronics is world known on its activities in terahertz generation and imaging. Its facilities include equipment for MBE growth of dilute bismide layers for infrared light emitters and photo-detectors. [www.ftmc.lt](http://www.ftmc.lt)

The Haute Ecole Arc has a lot of activities in the microtechnology fields going from classical watch conception to design of submicrometer micromachining using different techniques as ion beam etching or femtosecond laser micromachining. We have research activities in optical metrology and fiber optics sensors. Applied research is mainly focused on optical activities where two fields are highlighted: Interferometry and guided optics. <http://international.he-arc.ch/int-en-wo/engineering>



### € Funded Research Projects Experience

- ACCORD (Advanced Components Cooperation for Optoelectronics Research and Development)
- NEXPRESSO (Network for EXchange and PRototype Evaluation of photonicS componentS and Optical systems)
- MULTIPOL (Multifunctional Polymer Materials and Systems with Tailored Mechanical, Electrical and Optical Properties - <http://multipol.he-arc.ch/>)
- PARYLENS (<http://www.parylens.eu/>)

## Heraeus

**Heraeus Noblelight** counts itself among the market and technology leaders worldwide for special lamps with wavelengths from ultraviolet to infrared for industrial, scientific, and medical applications. With locations in Germany, the United Kingdom, China, and the USA, the segment manufactures lamps for analytical measurement technology and the printing industry, infrared

# EPIC – European Photonics Industry Consortium

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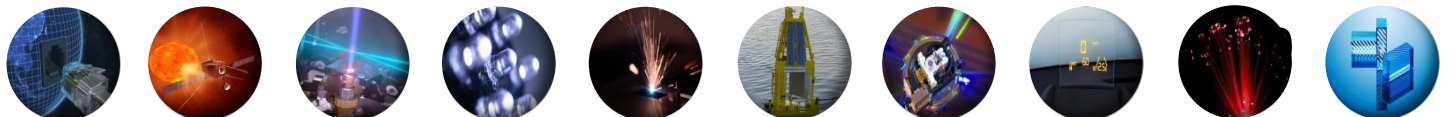
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Tel: +33 1 45057263

[keim-paray@epic-assoc.com](mailto:keim-paray@epic-assoc.com)

Contact EPIC staff for market data, technology reports, business contacts, identifying a partner for EU funding consortium, regulatory issues, staffing/hiring, support in communicating your message, involvement in economic/trade/business missions, and any other issue!



CHALMERS

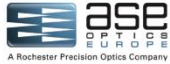
DOW CORNING Lighting Solutions



Fraunhofer Heinrich Hertz Institute

Wroclaw University of Technology

ALPhA NOV Optics & Lasers Technology Center



PHILIPS sense and simplicity



TRIDONIC enlightening your ideas



Fraunhofer IOF



OCLARO



Edmund optics | europe



AIM

TNO innovation for life

EXALOS The bright light source company



\* Be part of it!

Fraunhofer ISE



ALSI zumtobel group

ICFO The Institute of Photonic Sciences

SWISS+PHOTONICS

Aledia The White Side

haute école aric ingénierie

SAFC Hitech Enabling Technology

POLYPHOTONIX



Fraunhofer ILT



Time-Bandwidth Products

HORIBA Scientific

ficonTEC



u2 photonics

SUSS MicroOptics



innolume



EO-LITE SYSTEMS



3SP Group

Fraunhofer IZM



VLC PHOTONICS

AIXTRON



ONERA THE FRENCH AEROSPACE LAB



Fraunhofer IWS

SECPhO Southern European Cluster in Photonics and Optics



COBRA TU/e

saes getters



BOSCH Invented for life



csem



rofin

