

# EPIC ACTIVITY REPORT 2018

EXPLORING MARKETS  
EXPANDING APPLICATIONS  
CONNECTING PEOPLE



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## » FOREWORD – EPIC PRESIDENT



**Advocating for Photonics.** Last year, the European Union began a consultation on the future framework and support priorities for the European Commission's collaborative research, innovation and deployment programmes. It is critical that a vibrant photonics industry is recognized as a specific objective within future MFF 2021-2027 programmes, with strengthened European Commission resources and dedicated budget lines to enable and ensure future support at European level for EPIC members and the photonics industry. EPIC has published an advocacy position paper, supported by 44 photonics associations and 532 CEOs, to strengthen future support for photonics within the European Commission.

**Action and Engagement.** As part of our mission to foster a vibrant photonics ecosystem, EPIC organised 22 meetings and events for its members, key customers and suppliers along the value chain. More than 1,160 experts and leaders representing 588 companies from 43 countries attended the events. EPIC staff persisted in their important task of supporting companies accelerate growth and technological advancements and visited an impressive number of 150 companies, getting to know their competences, discussing their challenges, and suggesting solutions and contacts. EPIC staff also continued to reach out to emerging photonics markets and were invited to speak/chair/moderate 45 events and they attended 71 events, conferences and exhibitions around the world.

**Leading Industry Association.** Going from strength to strength, EPIC expanded its membership and 102 additional members joined the association in 2018 with extranet subscribers growing to 1,652. During the year, EPIC shared 10 additional market reports to assist members in market analysis and business expansion and more than 50 editorials, articles, interviews, webinars, podcasts, were published putting 77 EPIC members in the spotlight. EPIC also continued striving for global collaboration and MoUs were signed with USA based COBO (Consortium for On-Board Optics), CIS Laser Association based in Russia, and the Wuhan Laser Industry Association from China.

I would like to thank and congratulate EPIC staff for their relentless and sterling efforts to support the development of the photonics industry for the benefit of its members.

**Benno Oderkerk**, CEO, Avantes

## MEET THE STAFF



• **Ana Gonzalez**, PhD, R&D Manager



• **Anna Feis**, MSc, CFO Investment Advisor



• **Auri Ripoll**, MSc, Marketing Manager



• **Carlos Lee**, MBA, Director General



• **Elena Beletkaia**, PhD, Project Leader



• **Jose Pozo**, PhD, Director of Technology



• **Neringa Norbutaitė**, MSSc, Events Manager



• **Simon Hutchinson**, PhD, Project Leader

## » EPIC — THE ASSOCIATION

### WHAT IS EPIC?

EPIC – European Photonics Industry Consortium – is an industry association whose focus is to promote the sustainable development of organisations working in the field of photonics. We foster a vibrant photonics ecosystem by maintaining a strong network and acting as a catalyst and facilitator for technological and commercial advancement. EPIC publishes market and technology reports, organizes technical workshops and B2B roundtables, takes part in advocacy and lobbying, promotes education and training activities, sets standards and roadmaps, hosts pavilions at exhibitions, connects with investors, scouts companies, and helps recruit skilled talent.

### EPIC IS OWNED BY ITS MEMBERS AND MANAGED BY ITS BOARD OF DIRECTORS

- Benno Oderkerk, CEO, Avantes (The Netherlands)
- Christian Bosshard, Vice President, CSEM (Switzerland)
- Jan Meise, CEO, AMS Technologies (Germany)
- Martin Schell, Director, Fraunhofer HHI (Germany)
- Maurizio Gattiglio, Vice President, Prima Electro, and Chairman & CEO, Convergent Photonics (Italy)
- Petteri Uusimaa, President & CEO, Modulight (Finland)
- Samuel Bucourt, CEO, Imagine Optic (France)



Board of Directors meeting hosted by AMS Technologies in Munich



Board of Directors meeting hosted by CEA-Leti in Grenoble

### MEMBERSHIP FEE

- Company with annual revenue above 250 million EUR: 10000 EUR
- Company with annual revenue between 100-250 million EUR: 8000 EUR
- Company with annual revenue between 50-100 million EUR: 6000 EUR
- Company with annual revenue between 10-50 million EUR: 4000 EUR
- Company with annual revenue below 10 million EUR: 2000 EUR
- Start-up (company less than 5 years old): 500/1000/1500/2000 EUR
- University or Research Organization: 2000 EUR
- Association or Cluster: 2000 EUR



» *“The EPIC Meeting on AR/VR at Sony was my first meeting with EPIC and I now understand the value for my and other organizations in being an EPIC member. I was very pleased with the accommodation, attendees, talks, and discussions and found it very informative and fruitful and I will definitely further exchange with some companies on this topic. I am looking forward to upcoming events in the future.”*

Andreas Zuck, Market Development Manager, Coherent



» *“EPIC is an absolutely genius network, especially for the good contacts provided to small members, which in my view is absolutely important for startups. EPIC is not comparable with other networks, where you must pay a lot and get nearly nothing. So, the idea and the realization is really good!”*

Oliver Prochnow, Managing Director, Valo Innovations

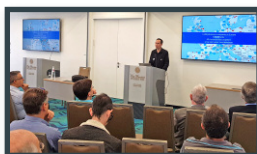


## ► ON STAGE

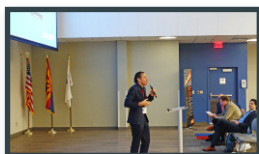
EPIC was invited to moderate panel discussions, chair conferences, open exhibitions, present awards, and speak at 45 events. It was our pleasure to be welcomed on stage at the following events:



AIMEN Laser Conference in Pontevedra



ALTIA meeting in Tel Aviv



Arizona Photonics Days in USA



Autonomous Machines World Congress in Berlin



CESA Automotive in Paris



CIOE Optoelectronics in Shenzhen



COBO Chip-On-Board Meeting in Rome



CTTC in Barcelona



Dissabtes de la Física at UAB in Barcelona



ECIO Conference in Valencia



EPIC Annual General Meeting in Berlin



EOST Defense Captech in Taufkirchen



EPRISE Workshop in Berlin



EuroSciCon Lasers and Optics Conference in Prague



Exhibition for Laser, Optical and Optoelectronic in Moscow



Forum on Wide Bandgap Semiconductors in Shenzhen



Fraunhofer HHI 90th Anniversary in Berlin



Future of Innovation Diplomacy in Brussels



Huawei Workshop on Photonics Technologies in Rome



IBERSENSORS in Barcelona



IEEE BICOP in London



IEEE IPC Annual Meeting in Reston



Optics & Photonics Symposium and Convention in Pakistan



ISA SSL General Assembly in Shenzhen



Laser Manufacture News Awards in Shenzhen



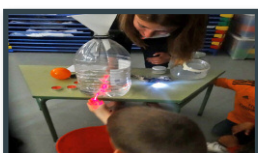
Laser Manufacture News CEO Night in Shenzhen



LASERFAIR Exhibition in Shenzhen



LaserTech Conference in Paris



Light experiments with 5 year old children at Saltells Barcelona



LS16 Lighting Conference in Sheffield



Medtec Europe in Stuttgart



Multiphoton 5th Anniversary Event in Würzburg



NGON & DCI Europe Conference in Nice



International Workshop on Sound Enabled Nanotechnologies



Photonics Info Day at University of Vigo



Photonics West Pilot Lines in San Francisco



PIC International Awards in Brussels



POP2 Packaging Conference in Paignton



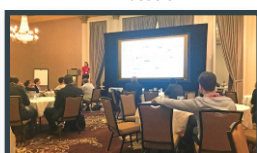
Roundtable on PIC & Innovation Policy at Innovation in Rotterdam



Saturday Physics in UAB Barcelona



SBFOTON Conference in Brazil



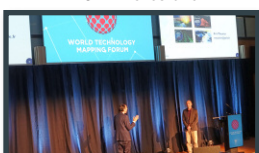
SEAFOM Fiber Optic in Houston USA



Skills for Smart Industrial Specialisation in Brussels



W3+FAIR Exhibition in Wetzlar



World Technology Mapping Forum in Enschede



## » EXHIBITING & ATTENDING INDUSTRY EVENTS

- 1 — ACHEMA in Frankfurt
- 2 — ACTPHAST and PILOT LINES Meeting in Brussels
- 3 — AKL in Aachen
- 4 — Analytica in Munich
- 5 — Baltic Photonics B2B Networking Event in Vilnius
- 6 — ECOC in Rome
- 7 — EuroBLECH in Hannover
- 8 — European Business Summit in Brussels
- 9 — European Photonics Venture Forum in Barcelona
- 10 — European Space Agency ISD Days in Noordwijk
- 11 — EUTECC in Brussels
- 12 — Hannover Messe in Hannover
- 13 — High-level conference EU Research and Innovation in our Daily Life Brussels
- 14 — ICAP in Barcelona
- 15 — ITF (imec Technology Forum) in Antwerp
- 16 — Journée Perspectives de la Photonique Française in Paris
- 17 — Laser Golf Competition in Shenzhen
- 18 — Laser Market Seminar in San Francisco
- 19 — Laser Symposium Fiber, Disc & Diode in Dresden
- 20 — Laser World of Photonics in Bangalore
- 21 — Laser World of Photonics in Shanghai
- 22 — LASERFAIR in Shenzhen
- 23 — LASYS in Stuttgart
- 24 — Leibinger Award Ceremony in Ditzingen
- 25 — Light+Building in Frankfurt
- 26 — LpS in Bregenz
- 27 — Micronora in Besançon
- 28 — Mobile World Congress in Barcelona
- 29 — Optatec in Frankfurt
- 30 — Optics Valley of China International Optoelectronic Exposition and Forum in Wuhan
- 31 — OPTRO in Paris
- 32 — PASSION Progress meeting in Eindhoven
- 33 — Photonex UK in Coventry
- 34 — Photonics Europe in Strasbourg
- 35 — Photonics West in San Francisco
- 36 — Photonics21 Annual Meeting in Brussels
- 37 — PhotonicsNL in Twente
- 38 — Photonik Tage Berlin Brandenburg
- 39 — PIC International in Brussels
- 40 — PICS4All Progress Meeting in Warsaw
- 41 — PIXAPP General Assembly in Ghent
- 42 — Precision Fair in Veldhoven
- 43 — PRISM Awards in San Francisco
- 44 — TERABOARD Progress meeting in Milan
- 45 — VDE Summer Reception in Brussels
- 46 — VISION in Stuttgart
- 47 — W3+FAIR in Wetzlar
- 48 — World Technology Mapping Forum WP Leaders Meeting in Enschede



AKL in Aachen



ECOC in Rome



LASYS in Stuttgart



LpS in Bregenz



OPTRO in Paris



Photonex UK in Coventry



Photonics West in San Francisco



Photonik Tage Berlin Brandenburg



Laser Symposium in Dresden



PIC International in Brussels



VISION in Stuttgart

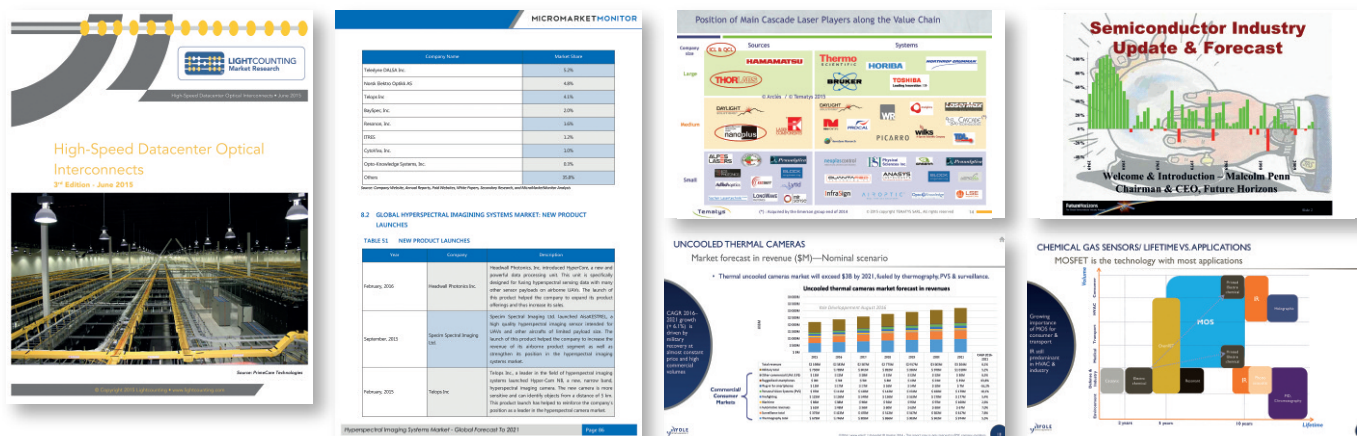


W3+FAIR in Wetzlar

## ▶▶ MARKET REPORTS

Every employee of a company member of EPIC has free access to the EPIC library on the extranet. The extranet is simple to use and you can conveniently download hundreds of technology presentations and numerous market reports.

- **2018** 3D Imaging and Sensing
- **2018** Global Fiber Laser Market 2018-2022
- **2018** Global Photonic Integrated Circuit Market 2018-2023
- **2018** High Speed Ethernet Optics
- **2018** Laser Technology Market – Global Forecast to 2024
- **2018** Silicon Photonics Market – Global Forecast to 2023
- **2018** Ultrafast Lasers Technologies and Global Markets
- **2018** VCSEL Technology Industry and Market Trends
- **2018** Worldwide Laser Market Review and Forecast
- **2017** Integrated Optical Devices
- **2017** Mega Datacenter Optics
- **2017** IR LEDS and VCSELs – Technology, Applications and Industry Trends
- **2017** 3D Imaging and Sensing
- **2017** Glass Substrate in the Semiconductor Field
- **2017** Embedded Image and Vision Processing
- **2017** Camera Module Industry Market and Technology Trends
- **2017** LIDAR Applications and Markets
- **2017** Laser Technologies in the Semiconductor Field



►► *“The market reports provided by EPIC are a great resource to me and my colleagues. It provides us with valuable information on technology trends and market forecasts.”*

*John O'Carroll, Director of Technical Development, Eblana Photonics*



## ► TECHNOLOGY WORKSHOPS & BUSINESS EVENTS

EPIC strengthens the connections among its members by creating fora to meet, to discuss challenges and opportunities, and to explore collaboration possibilities. EPIC events are typically on-invitation to ensure a relevant audience and limited in size to ensure effective networking. EPIC members drive the agenda and have registration priority at all association events.

- 1 — EPIC Meeting on AR/VR at Sony in Stuttgart
- 2 — EPIC Meeting on Automation for Packaging and Testing of Photonics at PI in Karlsruhe
- 3 — EPIC Meeting on Environmental Monitoring at Avantes in Apeldoorn
- 4 — EPIC Meeting on Hyperspectral Imaging at VISION in Stuttgart
- 5 — EPIC Meeting on Industrial Lasers at TRUMPF in Ditzingen
- 6 — EPIC Meeting on IR Technologies at SOFRADIR in Grenoble
- 7 — EPIC Meeting on LIDAR for Defense in Paris
- 8 — EPIC Meeting on Lighting and Laser Projection for the Entertainment Industry at LpS in Bregenz
- 9 — EPIC Meeting on Optics for Aeronautics at CAILabs in Rennes



EU-Asia Laser Industry Summit in Shenzhen at LASERFAIR Exhibition



AR/VR in Stuttgart at Sony



Automation for Packaging and Testing in Karlsruhe at PI



Environmental Monitoring in Apeldoorn at Avantes



Industrial Lasers in Ditzingen at TRUMPF



IR Technologies in Grenoble at SOFRADIR



LIDAR for Defense in Paris at OPTRO



Lighting and Laser Projection for the Entertainment Industry in Bregenz at LpS Exhibition



Medical Lasers and Biophotonics in Copenhagen at NKT



- 10 — EPIC Meeting on Singlemode vs Multimode Communication at CommScope in Leuven
- 11 — EPIC Meeting on Testing of Optoelectronics at YELO in Belfast
- 12 — EPIC 3<sup>rd</sup> EU-Asia Laser Industry Summit in Shenzhen
- 13 — EPIC Annual General Meeting in Berlin
- 14 — EPIC Global Photonics Technology Summit in Brussels
- 15 — EPIC Investors Meeting in Barcelona
- 16 — EPIC VIP Networking Reception at ECOC in Rome
- 17 — EPIC VIP Networking Reception at OFC in San Diego
- 18 — EPIC VIP Networking Reception at Photonics West in San Francisco
- 19 — EPIC Members TechWatch at CIOE in Shenzhen
- 20 — EPIC Members TechWatch at COMPAMED/MEDICA in Dusseldorf
- 21 — EPIC Members TechWatch at VISION in Stuttgart
- 22 — EPIC Members TechWatch at W3+FAIR in Wetzlar



Optics for Aeronautics in Rennes at CAILabs



Singlemode vs Multimode Communication in Leuven at CommScope



Testing of Optoelectronics in Belfast at YELO



Photonics Investors in Barcelona



EPIC World Photonics Technology Summit in Brussels



EPIC TechWatch at CIOE in Shenzhen



EPIC TechWatch at MEDICA in Dusseldorf



EPIC TechWatch at VISION in Stuttgart



EPIC TechWatch at W3+FAIR in Wetzlar



## ► NETWORKING EVENTS – BUILDING A TRUSTED COMMUNITY

EPIC provides unrivalled networking opportunities among its members, customers, and VIPs from the photonics industry. In this way companies get to know each other better and people build a long lasting trustful relationship. Typically, EPIC networking events are free to attend but on invitation.



Networking Breakfast in San Francisco



Networking Dinner in Aachen



Networking Dinner in Barcelona



Networking Dinner in Brussels



Networking Dinner in Ditzingen



Networking Dinner in Edinburgh



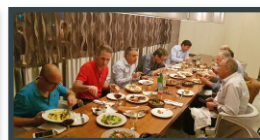
Networking Dinner in Glasgow



Networking Dinner in Grenoble



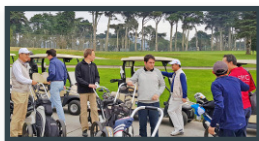
Networking Dinner in Karlsruhe



Networking Dinner in Tel Aviv



Networking Dinner in Vilnius



Networking Golf in San Francisco



Networking Golf in Shanghai



Networking Golf in Shenzhen



Networking Reception at CIOE in Shenzhen



Networking Reception at ECOC in Rome



Networking Reception at OFC in San Diego



Networking Reception at Photonics West in San Francisco



Networking Reception at PIC in Brussels



Networking Reception in Belfast



Networking Reception in Berlin



Networking Reception in Leuven



Networking Reception in Shanghai



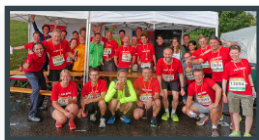
Networking Reception in Stuttgart



Networking Run in Berlin



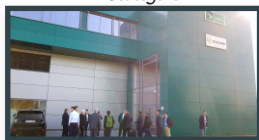
Networking Run in Brussels



Networking Run in Munich



Networking Run in San Francisco



Company Visit AEMtec



Company Visit art photonics



Company Visit Avantes



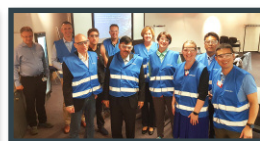
Company Visit CAILabs



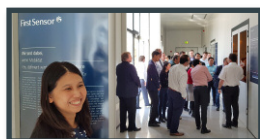
Company Visit Carl Zeiss



Company Visit CEA LETI



Company Visit COMMScope



Company Visit First Sensor



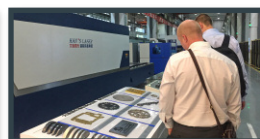
Company Visit Fraunhofer HHI



Company Visit Fraunhofer IOF



Company Visit Fraunhofer IZM



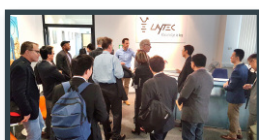
Company Visit Han's Laser



Company Visit Hero Laser



Company Visit Jenoptik



Company Visit Laytec



Company Visit MAX Photonics



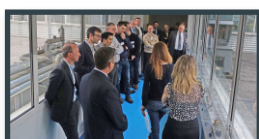
Company Visit NKT



Company Visit O-Net



Company Visit PI



Company Visit SOFRADIR



Company Visit TRUMPF



Company Visit YELO



## » EUROPEAN PROJECTS

EPIC is member of the Photonics21 Board of Stakeholder, regularly attends the meetings, and is involved in key projects as dissemination and exploitation partner.

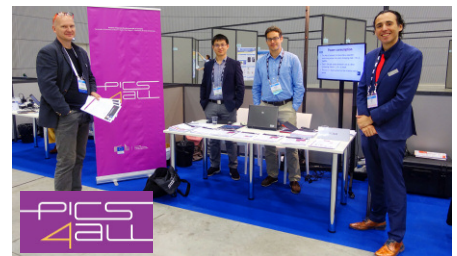
- 1 — EPIC is part of PICS4ALL – [www.pics4all.jeppix.eu](http://www.pics4all.jeppix.eu)
- 2 — EPIC is part of MIRPHAB – [www.mirphab.eu](http://www.mirphab.eu)
- 3 — EPIC is part of TERABOARD – [www.teraboard.eu](http://www.teraboard.eu)
- 4 — EPIC is part of PIXAPP – [www.pixapp.eu](http://www.pixapp.eu)
- 5 — EPIC is part of PASSION – [www.passion.eu](http://www.passion.eu)
- 6 — EPIC is part of PULSe – [www.pulse-h2020.eu](http://www.pulse-h2020.eu)
- 7 — EPIC is part of LAMPAS – [www.lampas.net](http://www.lampas.net)
- 8 — EPIC is part of InPULSE – [www.inpulse.jeppix.eu](http://www.inpulse.jeppix.eu)



MIRPHAB Presentation at Avantes in Appeldoorn



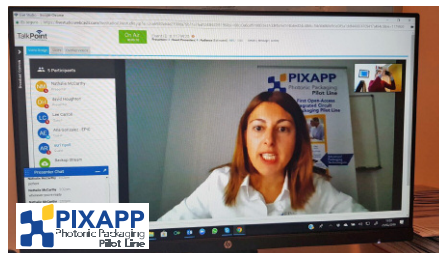
PASSION Presentation at ECOC in Rome



PICS4all at Photonics Europe in Strasbourg



Pilot Lines at PIC International in Brussels



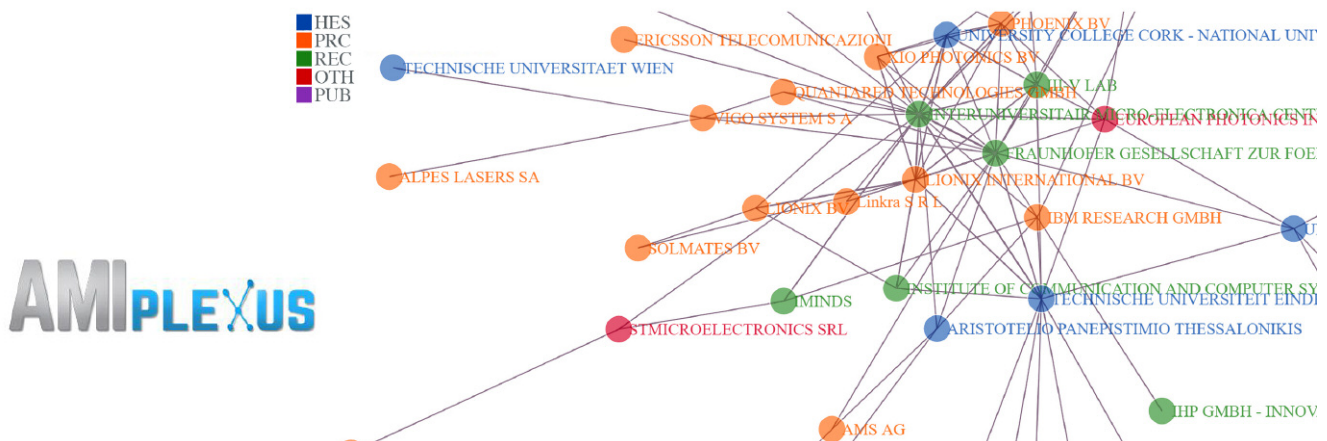
PIXAPP Packaging Webinar  
in Partnership with Electro Optics



TERABOARD Sponsor of the EPIC VIP Reception  
at ECOC in Rome

## » EPIC MEMBERS HAVE FREE UNLIMITED ACCESS TO AMIPLEXUS

Search for new technologies and observe your competitors! AMIPLEXUS is a useful practical on-line search tool for helping you identify partners in EU funded projects. See what projects your suppliers, customers and competitors are involved in and who are their other partners. See which technologies are in the companies pipelines. You can search by keywords, and refine search results to specific countries, companies, etc... EPIC has acquired a license that allows all employees of all EPIC member companies to freely access [www.amiplexus.eu](http://www.amiplexus.eu)



## » FINANCE, INVESTMENT & ENTREPRENEURSHIP

The EPIC Venture and Finance Workgroup is dedicated to the promotion of venture and finance activities among the association's members. EPIC's mission has always been to maximise the business development opportunities of its members through networking, information and partnering. The Venture and Finance Workgroup takes this a step further through a series of focused activities aimed at attracting investors to photonics, promoting trade investment among members, fostering SME development and cooperating with the public funding sector on the continuous improvement of financing conditions for photonics entrepreneurs. In 2018 we participated at the 4<sup>th</sup> European Photonics Venture Forum in Barcelona. EPIC also maintains a list of investments and M&A.

- List of Investment in Photonics – [www.epic-assoc.com/funding/venture-finance](http://www.epic-assoc.com/funding/venture-finance)
- List of Photonics Mergers & Acquisitions – [www.epic-assoc.com/message-to-investors](http://www.epic-assoc.com/message-to-investors)



Discussion with Photonics Investors and Business Angels



Networking Between EPIC Members and Investors

## » HR RECRUITMENT

EPIC has 431 members across 33 countries, collectively they have more than 1150 open positions. But the positions do not only need to be filled individually, at industry level we need to ensure there is sufficient qualified talent, otherwise candidates will be jumping from company to company, salaries will increase, and the overall problem is not being solved. EPIC members EO, Profound Resources, Insight Technology Search, TMC, and Orion Engineering are partners committed to attract talent from other fields, retain talent in the photonics industry, and motivate potential candidates to join our exciting community. If you are hiring, contact an EPIC partner. [www.epic-assoc.com/jobs](http://www.epic-assoc.com/jobs)



Promoting EPIC member jobs at European Photonics Career Fair in Palaiseau



Promoting EPIC member jobs at SEMICON Europa in Munich



## ► ARTICLES & VIDEOS

More than 50 editorials, articles, interviews, webinars, podcasts, were published in partnership with leading media partners including Electro Optics, EuroPhotonics, Novuslight, Optik & Photonik, and Photonique. 78 EPIC members were put in the spotlight, putting forward their products and companies.

### 1 — Europe Drives Fiber Sensor Development for Industrial Apps

Published in EuroPhotonics. Mentioned members: University of Southampton ORC, Chalmers University of Technology, CAllabs, University of Science and Technology of Lille, Modulight, Ocean Optics, SEDI-ATI, Optics11, ixFiber, NYFORS, Technobis, XiO Photonics.

### 2 — The Merits of Single-Mode vs. Multimode Fiber Optics

Published in EuroPhotonics. Mentioned members: Arden Photonics, Sylex, VPI Photonics, PhotonX Networks, Eindhoven University of Technology, OFS Optics, Corning, Chalmers University, Fraunhofer HHI, CAILabs, SMART Photonics, INPHOTEC, Yelo.

### 3 — Photonic Design, Verification, and Implementation

Published in Optik&Photonik. Mentioned members: Zemax, Light Tec, Synopsys, VPI photonics, Luceda, Bright Photonics, CST, Lumerical, Mentor.

### 4 — Integration of Photonic Systems

Published in Optik&Photonik. Mentioned members: Antoni van Leeuwenhoek Hospital, Lionix International, NKT Photonics, OCTLight, CD6, Volpi, Quantel, Oxixus, RiverD, ICFO, CEA-Leti, Diafir, Vigo Systems, Leibniz IPHT Jena, Volpi, art photonics, Cambridge Consultants.

### 5 — Photonic Integrated Circuits, the Packaging Challenges

Mentioned members: Lionix International, VPI Photonics, CST, Phoenix Software, Luceda, imec, CEA-Leti, IHP, VTT, Fraunhofer HHI, SMARTPhotonics, Cordon Electronics, Ficontec.

### 6 — The Worldwide Market for Lasers

Published in Laser Technik Journal. Mentioned members: ELAS, SPI lasers, Modulight, Alpes Lasers, Nanoplus, IQE, EKSMA.

### 7 — Microdisplays, Optics Enable Future of AR/VR

Published in EuroPhotonic. Mentioned members: Modulight, Nanoplus, IQE, EKSMA, ELAS, Aledia, Yelo.

### 8 — Difficulties Recruiting? Hire an HR Recruitment Firm! published on LinkedIn

Mentioned members: EO, Profound Resources, Insight Technology Search, TMC, Orion Engineering.

### 9 — Photonics has no borders: Europe meets Japan

Published in PIC Magazine. Mentioned members: OFS, Lumerical, VPI Photonics, Fraunhofer HHI, Smart Photonics, VTT, Ficontec, Yelo, Physical Instruments (PI), IHP.

### 10 — AEMtec Delivers 'one-stop-shop' for Optical Component Requirements

#### Video Exhibitor Interviews at LASYS

- QIOPTIQ • Univet • OPTOMAN • Santec • PI • Laser Components
- New Infrared Technologies • ILT • RoFin • Femtika

#### Video CEO Interviews

- Frank Levinson
- Milton Chang

#### C-Level Interviews in Novuslight and PIC Magazine

- Steven Goetstouwers, CEO, Admesy
- Ronald Broeke, CEO, Bright Photonics
- Michael Geiselmann, CTO, LiGenTec
- Theodor Nielsen, CEO, NIL Technology
- Daniel Evans, CTO, Palomar Technologies
- Jorge Sanchez, Business Development, QPO Lenses
- Philipp Schon, CEO, Raylase
- Michael Totzeck, Fellow, ZEISS
- Teera Achariyapaopan, CEO, Focuz
- Tom Walker, R&D Group Director, Synopsys
- Twan Korthorst, Director, Phoenix Software



EPIC articles in Electro Optics



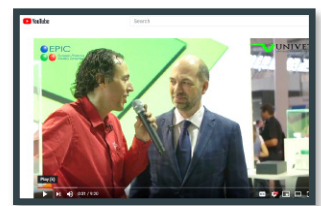
EPIC articles in EuroPhotonics



EPIC articles in PhotonicsViews



EPIC interviews in Novuslight



Video interview with exhibitors at LASYS



Video Interview with Frank Levinson



Video Interview with Milton Chang

## » PARTNERSHIPS & MEMORANDUM OF UNDERSTANDING

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- 1 — **AILU** – Association of Laser Industrial Users
- 2 — **AIM Photonics** – American Institute for Manufacturing Integrated Photonics
- 3 — **CECIMO** – European Association of the Machine Tool Industries
- 4 — **COBO** – Consortium for On-Board Optics
- 5 — **Commonwealth of Independent States Laser Association**
- 6 — **CSA** – China SSL Association
- 7 — **DIGITALEUROPE**
- 8 — **FTTH Council Europe** – Fiber To The Home
- 9 — **GDLIA** – Guangdong Laser Industry Association
- 10 — **Greenlight for Girls**
- 11 — **IAESI** – Israel Association of Electronics & Software Industries
- 12 — **IOA** – International Optoelectronics Association
- 13 — **Joint Forces for Solar**
- 14 — **LightingEurope**
- 15 — **LUX Consortium in Singapore**
- 16 — **Nanophotonics Europe Association**
- 17 — **OES** – Organic Electronics Saxony
- 18 — **PETRA** – Photonics Electronics Technology Research Association
- 19 — **SEAFOM** – Fiber Optic Monitoring Group
- 20 — **SEMI** – Semiconductor Equipment and Materials International
- 21 — **The Association for Vertical Farming**
- 22 — **Wuhan Laser Industry Association**



» *“The EPIC Meeting on AR/VR at Sony was an efficient kick starter for me to get me up to speed and see how TNO can be a contributing partner in this interesting field of technology. EPIC managed to get together a very interesting crowd for exchanging knowledge. I was also impressed by Jose Pozo’s knowledge of what’s going on all over Europe and I can, in all honesty, say that Jose is certainly one of the best chairpersons I have ever had the pleasure to watch in action, bringing energy and synergy throughout the event. My compliments.”*

*David Nijkerk, Optical Designer, TNO*

## » COMMITTEES

- 1 — **CESA** – Committee member of Conference on Automotive Electronics
- 2 — **ECIO** – Committee member of European Conference on Integrated Optics
- 3 — **EDA** – European Defence Agency CapTech Member of EOST Electro-Optical Sensors Technologies
- 4 — **EPVF** – Jury member of the European Photonics Venture Forum
- 5 — **ESTC** – Committee member of European System Integration Technology Conference
- 6 — **FOAN** – Committee member of Fiber Optics in Access Networks
- 7 — **OPTRO** – Committee member of International Symposium on Optronics in Defence and Security
- 8 — **SCREEN** – Supporter of Solutions for Critical Raw Materials - a European Expert Network



EPIC Delegation to LASYS in Stuttgart



MoU Collaboration with COBO Consortium for On-Board Optics in Rome



MoU Collaboration with CIS Laser Association in Moscow



MoU Collaboration with Hubei Laser Industry Association in Wuhan



» **“The EPIC Meeting on Environmental Monitoring saved me weeks, if not months, of research time that I would have had to invest to gain a similarly deep insight into the field of environmental monitoring. Thank you for a great meeting.”**

Thomas Neicke, CMO, Strategic Marketing & Business Development, APE

## » PARTNER EVENTS

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- 1 — AKL International Laser Technology Congress, Aachen, Germany
- 2 — Autonomous Machines World, Berlin, Germany
- 3 — Baltic Photonics: B2B Networking Event, Vilnius, Lithuania
- 4 — British and Irish Conference on Optics and Photonics, London, United Kingdom
- 5 — Day of Light, Paris, France
- 6 — ECOC Exhibition, Rome, Italy
- 7 — European Photonics Career Fair, Palaiseu, France
- 8 — EVG Bio & Photonics Device Manufacturing Workshop, Amsterdam, The Netherlands
- 9 — Global Summit & Expo on Laser Optics & Photonics, Rome, Italy
- 10 — IEEE Photonics Conference, Reston, USA
- 11 — International Conference on Laser, Optics and Photonics, Paris, France
- 12 — International Laser Symposium & Symposium Tailored Joining, Dresden, Germany
- 13 — International MicroNanoConference, Amsterdam, The Netherlands
- 14 — International Workshop on Sound-Enabled Nanotechnologies, Valencia, Spain
- 15 — ITF Imec Technology forum, Antwerp, Belgium
- 16 — ITF Imec Technology forum, San Francisco, USA
- 17 — Laser & Photonics Marketplace Seminar, San Francisco, USA
- 18 — LASYS International Trade Fair for Laser Material Processing, Stuttgart, Germany
- 19 — LpS LED professional Symposium +Expo, Bregenz, Austria
- 20 — NGON & DCI Europe, Nice, France
- 21 — Photonex Europe, Coventry, United Kingdom
- 22 — Photonics Applications Week, Eindhoven, The Netherlands
- 23 — Photonics Days Berlin Brandenburg, Berlin, Germany
- 24 — Photonics Event, Enschede, The Netherlands
- 25 — Photonics Integration Conference, Eindhoven, The Netherlands
- 26 — Photonics Packaging: Sub-Micron Assembly, Berlin, Germany
- 27 — PIC International Conference, Brussels, Belgium
- 28 — POP2, Paignton, United Kingdom
- 29 — SEMICON Europa, Munich, Germany
- 30 — SNAIA Conference, Paris, France
- 31 — VISION, Stuttgart, Germany
- 32 — Workshop on Photonic Integrated Circuits, San Diego, USA
- 32 — World Congress and Expo on Optics, Photonics and Telecommunication, Bucharest, Romania
- 33 — XIV Workshop AIMEN Laser, Pontevedra, Spain



» *“The EPIC Global Photonics Technology Summit was inspiring. It will bring me at least two new customers for packaging and one or two opportunities to follow our product roadmap. The organization was as usual, but not taken for granted, again perfect.”*

*Pim Kat, CEO, Technobis group*



DAY OF PHOTONICS, initiated by EPIC, is an annual global event that promotes “photonics” to the general public. Around the world, hundreds of companies, universities and organizations involved in photonics reach out to their communities to raise awareness about what is photonics and why it is important.

On 21 October 1983, the General Conference of Weights And Measures adopted the value of 299,792.458 km/s for the speed of light. At the occasion of the anniversary, activities are organized around the world. Every company, research organization, university, school, student chapter, is invited to organize an activity, demonstration, or discussion on the impact of photonics in our day-to-day life.



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CUDOS



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Privada Cochabamba



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CMC Microsystems



BRAZIL  
Josephine de Mello School



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Colegio Concepcion



CHINA - China Solid State  
Lighting Alliance



ESTONIA  
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HUNGARY  
Holografika



EUROPE  
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FINLAND - Tampere  
University of Technology ORC



GERMANY  
Multiphoton Optics



GREECE  
PCRL



SWEDEN  
Cobolt



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LATVIA  
Riga Photonics Centre



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of Technology



PORTUGAL - Campus  
Universitário de Santiago



ROMANIA - Optoelectronica  
2001 & Fiber Laser Optics &  
Nanoline Optics



TURKEY  
Koc University



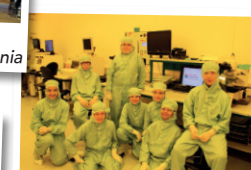
RUSSIA  
ITMO University



USA  
Virginia Military Institute.



SLOVENIA - Lighting  
Engineering Society of Slovenia



SWITZERLAND  
II-VI Laser Enterprise



TAIWAN  
Photonics Forum



UKRAINE - Design Zaporozhye  
National Technical University



INDIA - Central Glass & Ceramic  
Research Institute Kolkata



UNITED KINGDOM - Institution  
of Lighting Professionals



## » OUTREACH

In 2018 EPIC visited 150 companies around the world. These interactions allow us to intimately learn about the latest technology developments, understand manufacturing challenges, explore business and collaboration opportunities for our members. EPIC actively builds a global network of decision makers and experts, the network is accessible to the membership at large. It was our pleasure to be welcomed by:



Aconity3D



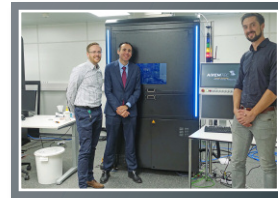
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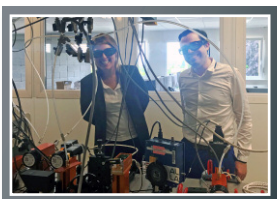
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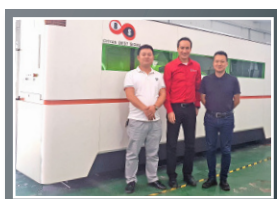
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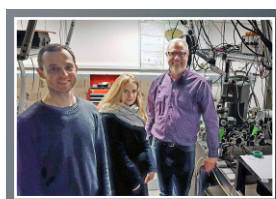
CeNT at Warsaw University



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COMMSCOPE



Compound Semiconductor Technologies





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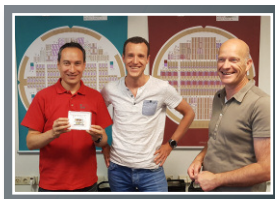
CTC



Direct Machine Control



Edmund Optics



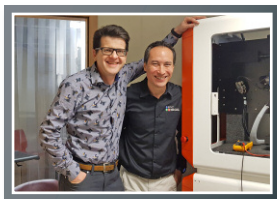
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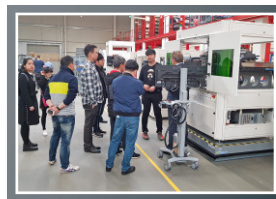
Femtika



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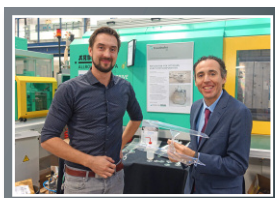
Finetech



FORC-Photonics



Fraunhofer HHI



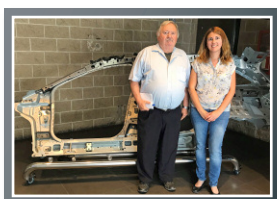
Fraunhofer IPT



Fraunhofer ISC



Fraunhofer UK



Gestamp



Ghent University



GW Laser Tech



HBM Fiber Sensing



Hensoldt



Hubei Laser Association



Hugong Hanjie



Huize Laser



Hymson



ICON Photonics



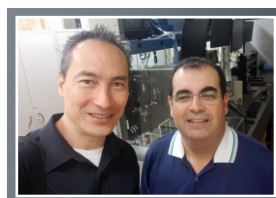
Idea



IDEX Advanced Thin Films



Indian Institute of Science



INESC TEC



INGENERIC



INNOLITE



Insight Photonic Solutions



ITME Warsaw



Jeanologia





LaserLeap



Laservision



Lead Laser



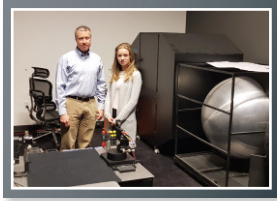
LEDVANCE



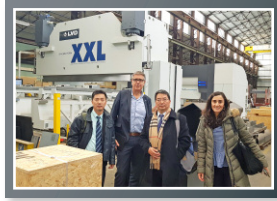
LEONI



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Miracle Laser



Mirror Lab at University of Arizona



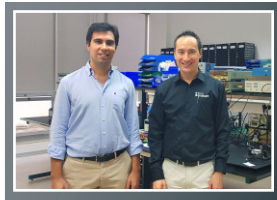
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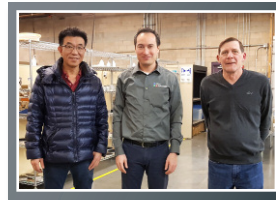
Monocrom



Multiphoton Optics



MW Technologies



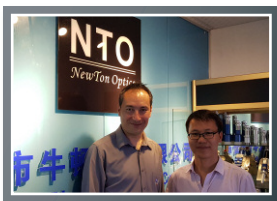
National Scientific Optics



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NOK Freudenberg



NTO Newton Optics



NTS OPTEL



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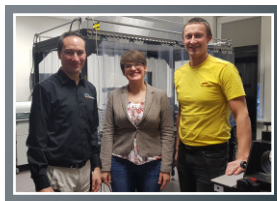
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Perkins Precision Developments



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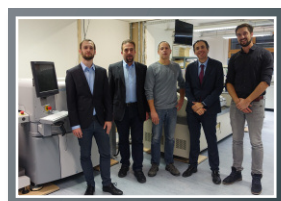
Photonica Foundation



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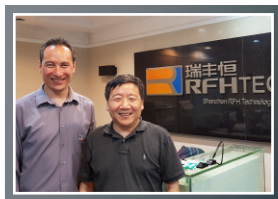
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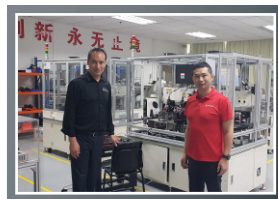
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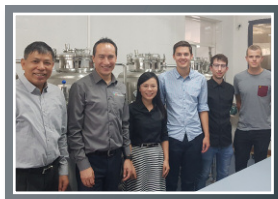
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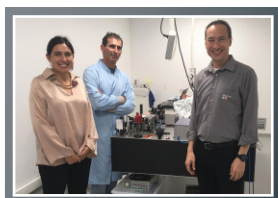
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Sphere Ultrafast Photonics



Strong Laser



Suzhou Delphi Laser



Tech-X



Thunder Laser



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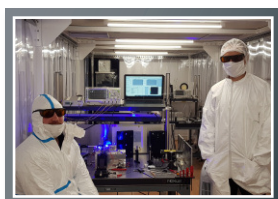
TRUMPF



TU Eindhoven



Tyndall National Institute



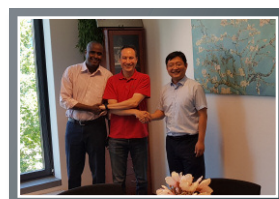
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University of Coimbra



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WSX Shenzhen Worth Technology



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