

EPIC ACTIVITY REPORT 2017

EXPLORING MARKETS
EXPANDING APPLICATIONS
CONNECTING PEOPLE





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EPIC is nominated Finalist for the European Association Leadership Award 2018



**THE EUROPEAN
ASSOCIATION
AWARDS 2018**

FINALIST

Association Leadership Award

» FOREWORD – EPIC PRESIDENT



Photonics is and remains more than ever a strategic technology. Photonics is often characterised as an enabling and pervasive technology. Actually, it is much more than that. Photonics is a strategic and structuring technology, leading and creating critical industrial applications. In our lifetimes, photonics has created new forms of lighting, energy, communication, security, mobility, manufacturing, life science and healthcare. Photonics tackles the world's most pressing societal challenges on a daily basis.

EPIC, the European Photonics Industry Consortium, has been dedicated for 15 years to the task of building solidarity and synergy among organisations that are committed to advancing discovery, innovation, and commercialisation of photonics technologies. European scientists, engineers and innovators have been leading the development of photonics.

Leading photonics industry association. As EPIC enters its 15th anniversary, we are proud to stand out as the representative of the European photonics industry. Financially strong, we accept no direct funding from any public authority. We are financed mainly through membership, and thus remain independent and free to represent the best interests of our members. Together, we advocate and collaborate for the competitiveness of the photonics industry and our member companies. More than ever, EPIC builds links between its members by providing services that they ask for and which are beneficial to them. Examples include exploratory missions around the world, focussed meetings with decision makers, and reports to stay abreast of market and technology trends. With more than 365 members across 33 countries, several thousand individuals benefit from membership in EPIC, making it one of the larger photonics associations focussed on innovation and industrial implementation.

EPIC is engaged more than ever with the photonics industry. Last year, the staff visited an impressive number of 165 companies, getting to know the competences of the members, discussing their challenges, and suggesting solutions and contacts. EPIC members, and key customers and suppliers along the value chain, participated in 25 workshops and events directly organized by the association. EPIC staff were invited to speak/chair/moderate 30 events and they attended 45 events/conferences/exhibitions around the world. I congratulate the staff for the incredible energy they put into supporting the development of the photonics industry and their members. On behalf of the board of directors, I express my appreciation to all the current and founding members and to all the individuals who have enabled the creation of EPIC and supported its prosperous development. **HAPPY 15th ANNIVERSARY TO EPIC!**



Benno Oderkerk, CEO, Avantes

MEET THE STAFF



- **Ana Gonzalez**, PhD, Project Leader
- **Anna Feis**, MSc, CFO and Photonics Investment Advisor
- **Auri Ripoll**, MSc, Marketing Manager
- **Carlos Lee**, MBA, Director General
- **Jose Pozo**, PhD, Director of Technology and Innovation
- **Neringa Norbutaitė**, MSc, Events Manager

» 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, and hosts pavilions at exhibitions.

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

- Benno Oderkerk, CEO, Avantes (The Netherlands)
- Bruno Mourey, CTO, CEA-Leti (France)
- Maurizio Gattiglio, Vice President, Prima Electro, and Chairman & CEO, Convergent Photonics (Italy)
- Jan Meise, CEO, AMS Technologies (Germany)
- Kurt Weingarten, General Manager, Lumentum (Switzerland)
- Martin Schell, Director, Fraunhofer HHI (Germany)
- Petteri Uusimaa, President & CEO, Modulight (Finland)



EPIC Board of Directors meeting at Lumentum in Zurich



EPIC Board of Directors meeting at IQE in Cardiff

EPIC APPOINTS NEW BOARD MEMBER



Maurizio Gattiglio is Vice President Prima Electro S.p.A., Chairman & CEO Convergent Photonics LLC, and General Manager Prima Electro China Co. Ltd. leading engineering corporations operating worldwide in the field of industrial lasers, sheet metal machinery and electronics. Maurizio Gattiglio is also Chairman of the European Factories of the Future Research Association (EFFRA) and member of the High Level Group of the Manufuture European Technology Platform. He has worked within the Prima Group since 1986 where he has occupied a number of different positions in R&D&I, customer support, manufacturing and management. He holds a number of patents of invention in the area of coordinate measuring machines and high power laser technology. Maurizio Gattiglio obtained a degree in mechanical engineering in 1984 from the Polytechnic of Turin.

MEMBERSHIP FEE

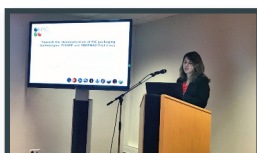
- Company with annual revenue above 250 million EUR: 10000 EUR
- Company with annual revenue between 100-250 million EUR: 8000 EUR
- Company with annual revenue between 50-100 million EUR: 6000 EUR
- Company with annual revenue between 10-50 million EUR: 4000 EUR
- Company with annual revenue below 10 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

EPIC is frequently invited to join committees, boards, and speak at events worldwide.

- 1 — Chair MIRPHAB Sensing and Spectroscopy Workshop in San Francisco
- 2 — Chair PIC Awards 2017 in Brussels
- 3 — Keynote at "Nanoimprint Lithography Workshop" in Barcelona
- 4 — Keynote at 14th Optics Valley of China International Optoelectronic Exposition and Forum in Wuhan
- 5 — Keynote at IEEE Sensors Conference in Glasgow
- 6 — Keynote at Laser Summit in Wuhan
- 7 — Keynote Presentation at Israeli Photonic Association Opening in Tel Aviv
- 8 — Keynote Presentation at MEDICA Tech Forum in Düsseldorf
- 9 — Keynote Presentation at World Technology Mapping Forum in 's Hertogenbosch
- 10 — Keynote Welcome at "Entrepreneurship - Let us Grow Together" in Ahmedabad
- 11 — Welcome Address in Jianmeng
- 12 — Welcome at 6th OASIS International Conference and Exhibition on Optics and Electro-Optics in Tel Aviv
- 13 — Moderate Panel Discussion "Improving Venture Investment Readiness" at European Photonics Venture Forum in Dublin
- 14 — Moderate Panel Discussion at IOGS Soirée Centenaire de SupOptique in Paris
- 15 — Panelist at European Central bank and MIT Lab in Frankfurt
- 16 — Presentation "Optical Fiber Technologies for Defense" at European Defense Agency in Ettlingen
- 17 — Presentation "PIC and Mid Infrared Sensors in Marine Applications" at Photonics4BlueGrowth in Santiago de Compostela
- 18 — Presentation "Photonics for Automotive" at RESPICE Workshop at Laser World of Photonics in Munich
- 19 — Presentation "Laser Market and Technology Perspectives" at CIOE Laser Conference in Shenzhen
- 20 — Presentation "UV LED Technology and Market Trends" at International Lighting Exhibition in Guangzhou
- 21 — Presentation "Why Photonics Matters in Life Science" at Karolinska Institute in Stockholm
- 22 — Presentation "Silicon Photonics Market Outlook" at PetaCloud International Symposium in Tel Aviv
- 23 — Presentation "Photonics for Automotive" at Photonics4Automotive Workshop and Tradeshow in Barcelona
- 24 — Presentation at IESSA in Cape Town
- 25 — Presentation at Photonic Integration Week in Valencia
- 26 — Presentation PIXAPP Pilot Line at ESREF (European Symposium on Reliability of Electronic Devices Failure Physics & Analysis) in Bordeaux
- 27 — Representing Europe at 22nd IOA International Optoelectronics Association in San Francisco
- 28 — Member Keynote Presentation at Hamamatsu Days in Solothurn, Munich, London, Bordeaux, Helsinki, Milan
- 29 — Member Keynote Presentation at PI Roadshow – Meet the Expert Silicon Photonics in Eindhoven
- 30 — Member Keynote Presentation at Spectral Engines Grand Opening and Product Launch in Helsinki



Entrepreneurship in Ahmedabad



ESREF in Bordeaux



PIC Award in Brussels



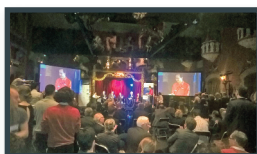
Hamamatsu Days in 6 countries



Institut d'Optique in Palaiseau



22nd IOA in San Francisco



IOGS 100th Anniversary in Paris



SEAFOM in London



Laser Summit in Wuhan



LASERFAIR in Shenzhen



Lighting in Guangzhou



OASIS in Tel Aviv



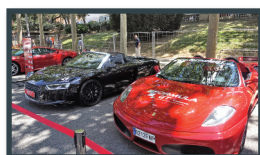
Optoelectronics Forum in Wuhan



PetaCloud in Tel Aviv



Spectral Engines in Helsinki



Photonics4Automotive in Barcelona



PI Roadshow Silicon Photonics in Eindhoven



European Central Bank in Frankfurt



Israeli Photonics Association in Tel Aviv



Photonic Integration Week in Valencia

» EXHIBITING & ATTENDING INDUSTRY EVENTS

- 1 — 15th Helmholtz Anniversary Reception in Brussels
- 2 — 22nd Meeting of the IOA International Optoelectronics Association in San Francisco
- 3 — 9th Photonics China Expo in Beijing
- 4 — Advanced Laser Technology and Application Exhibition in Guangzhou
- 5 — AIM Photonics Proposers Event in Rochester
- 6 — BO-HI Medical Exhibition in Suzhou
- 7 — CIOE in Shenzhen
- 8 — Conference on 3D Printing of Electronics in Eindhoven
- 9 — ECIO Conference in Eindhoven
- 10 — ECOC with PIXAPP/PIX4life booth at ECOC in Gothenburg
- 11 — ENGIMACH exhibition in Ahmedabad
- 12 — European Photonics Venture Forum (EPVF) in Dublin
- 13 — Group IV Photonics Conference in Berlin
- 14 — Guangdong Equipment Manufacturing Expo in Zhongshan
- 15 — IEEE Sensors in Glasgow
- 16 — Innovation Drift in Vilnius
- 17 — Intelligent Equipment & Metal Processing Industry Exhibition in Jiangmen
- 18 — International Lighting Exhibition in Guangzhou
- 19 — International Photonics Advocacy Coalition in Brussels
- 20 — Laser Market Seminar in San Francisco
- 21 — Laser Taiwan in Taipei
- 22 — Laser World of Photonics in Munich
- 23 — Laser World of Photonics in New Delhi
- 24 — Laser World of Photonics in Shanghai
- 25 — Lighting the Future for Europe in Brussels
- 26 — LMN Laser CEO Night in Shanghai
- 27 — LpS Conference and Trends of Lighting in Bregenz
- 28 — Milipol Exhibition in Paris
- 29 — Mobile World Congress in Barcelona
- 30 — OFC in Los Angeles
- 31 — OptecNet Jahrestagung in Mainz
- 32 — Optical Science Technologies for Advanced Security & Defence Systems in Warsaw
- 33 — Photonex in Coventry
- 34 — Photonics Event in Beijing
- 35 — Photonics Event in Veldhoven
- 36 — Photonics Integration Conference PHI in Eindhoven
- 37 — PIC International in Brussels
- 38 — Precision Fair in Veldhoven
- 39 — Quantum Technologies "How will they change our world?" in Brussels
- 40 — SEAFOM in London
- 41 — SPIE Cluster Reception in San Francisco
- 42 — Swiss Precision for Photonics at Consulate General of Switzerland in San Francisco
- 43 — SwissPhotonics event "From Daylight to Lighting 40" in Dübendorf
- 44 — World Mobile Congress in Barcelona
- 45 — World Technology Mapping Forum in 's Hertogenbosch



Exhibit at ECIO in Eindhoven



Exhibit at LpS in Bregenz



Exhibit at SEAFOM in London



Exhibit at PIC International in Brussels



Exhibit at Precision Fair in Veldhoven

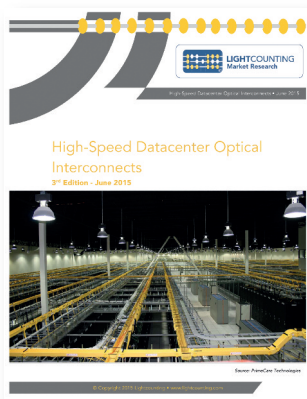
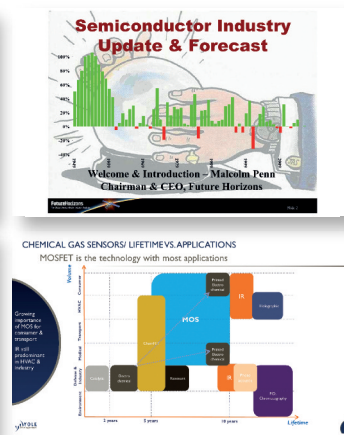
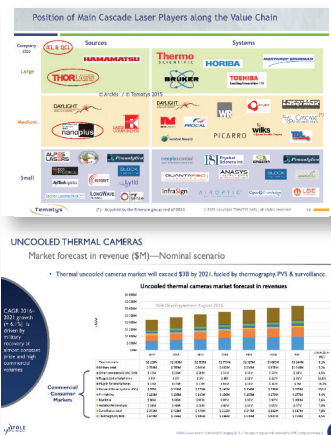


Exhibit at Photonics West in San Francisco

▶▶ 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.

- 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
- 2016 UV LEDs – Technology, Manufacturing and Application Trends
- 2016 Uncooled Infrared Imaging – Technology and Market Trends
- 2016 Mid-Term Semiconductor Industry Update & Forecast
- 2016 Hyperspectral Imaging Systems Market Global Forecast to 2021 covering applications in Aerospace & Defense Surveillance, Remote Sensing, Machine Vision & Optical Sorting, Life Sciences & Medical Diagnostics...
- 2015 Ultrafast Laser Report: Trends and Five-Year Forecast
- 2015 Sensors for Wearable Electronics and Mobile HealthCare
- 2015 Photonics Technologies for ADAS in the Automotive (Advanced Driver Assistance Systems)
- 2015 New Technologies & Architectures for Efficient Data Centers
- 2015 Hyperspectral Imaging Global Forecast to 2019 – markets by application: military & surveillance, environmental testing, mining & mineralogy, agriculture, machine control & process vision, life sciences & medical diagnostics, food, colorimetry, meteorology)
- 2015 High-Speed Datacenter Optical Interconnects
- 2015 Cascade Laser Technology Components & Systems Technology and Market Trends

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►► *“At EPIC workshops I meet customers and early adopters in the marketplace in order to gain insight into application requirements, technology trends, and business trends.”*

Marco Koelink, Business Development Manager, Advanced Packaging Center

► 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 — Delegation to Israel
- 2 — Delegation to Japan
- 3 — Delegation to Singapore
- 4 — EPIC Members Tech Watch on Photonics for Medical, Agriculture and Industrial applications at Photonics Event in Veldhoven
- 5 — EPIC Members Tech Watch on Laser and Photonics Applications at MEDICA in Düsseldorf
- 6 — EPIC Members Tech Watch at CIOE in Shenzhen
- 7 — EPIC Members Tech Watch at W3+FAIR in Wetzlar



Automation for Fabrication and Testing of Optoelectronics in Achim (hosted by ficonTEC)



2nd EU-Asia Laser Industry Summit in Shenzhen (in conjunction with LASERFAIR)



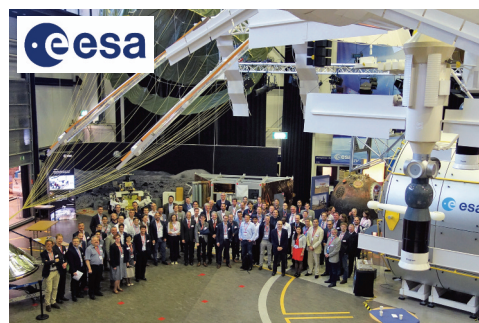
Annual General Meeting in Eindhoven (hosted by HTC)



Beam Shaping Technologies for Laser Material Processing in Munich (in conjunction with LWP)



Biophotonics Workshop Towards In Vivo Imaging in Amsterdam



European Space Agency in Noordwijk (hosted by ESA)



EPIC Delegation to Japan



EPIC Delegation to Singapore



EPIC Delegation to Israel

- 8 — Workshop at European Space Agency in Noordwijk
- 9 — Workshop on Biophotonics: Towards In Vivo Imaging in Amsterdam
- 10 — Workshop on Automation for Fabrication and Testing of Optoelectronics in Achim
- 11 — Workshop on Beam Shaping Technologies for Laser Material Processing in Munich
- 12 — Workshop on Freeform Optics for the Medical, Space and Automotive Industries in Jena
- 13 — Workshop on Miniaturization of Solid State Lighting Systems in Bregenz
- 14 — Workshop on Optical Adhesives in Munich
- 15 — Workshop on Photonic Integrated Circuits Testing in Pisa
- 16 — Workshop on Specialty Fibers for Harsh Environments and Fiber Lasers in Losone
- 17 — EPIC 2nd EU-Asia Laser Industry Summit in Shenzhen
- 18 — EPIC Entrepreneurship – Startup – Venture Forum in Berlin
- 19 — EPIC Annual General Meeting in Eindhoven



Members Tech Watch in Shenzhen
(in conjunction with CIOE)



Members Tech Watch in Düsseldorf
(in conjunction with MEDICA)



Freeform Optics for Medical, Space and Automotive in Jena
(hosted by asphericon)



Members Tech Watch in Wetzlar
(in conjunction with W3+FAIR)



Miniaturization of Solid State Lighting Systems in Bregenz
(in conjunction with LpS)



Optical Adhesives in Munich
(in conjunction with LWP)



Specialty Fibers in Losone
(hosted by Diamond)



Venture Start Up Entrepreneurship Forum in Berlin
(hosted by Berlin Partners and WISTA)



Photonic Integrated Circuits Testing in Pisa
(hosted by Inphotec)

► 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. When we know each other better, we work better together. Typically, EPIC networking events are free to attend but on invitation.



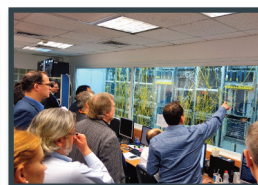
Breakfast at LASER World Of PHOTONICS in Munich



Breakfast PIC Packaging in Los Angeles (in conjunction with OFC)



Company visit Diamond in Losone



Company visit ECI Telecom in Petah Tikva



Company visit ficonTEC in Bremen



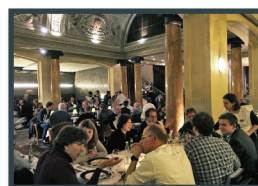
Company visit Hamamatsu Photonics



Company visit Han's Laser in Shenzhen



Company visit Inphotec in Pisa



Dinner in Brussels



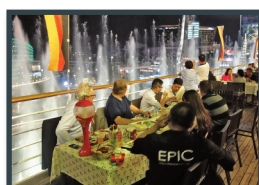
Dinner in Jena



Dinner in Jerusalem



Dinner in Pisa



Dinner in Shekou



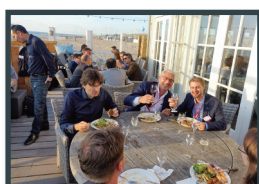
Dinner in Stockholm



Dinner in Verscio



Lunch in Hamamatsu



Lunch in Noordwijk



Lunch in Tokyo



Networking Executive Run in San Francisco



Networking Golf in San Francisco



Reception at ECOC in Göthenburg



Reception at EPIC AGM in Berlin



Reception in Achim



Reception in Singapore



Women in Photonics



►► “At the EPIC Golf Get-Together I connected and re-connected with several companies with relevant and interesting technologies for Oclaro. We identified two concrete projects that could turn into new business over the next few quarters. I appreciate that EPIC initiates new ideas to bring together its members, my fellow golfers had fun and truly enjoyed the experience. Thank you for organizing this very fruitful networking event!”

Yves LeMaitre, President, Optical Connectivity Business, OCLARO

» 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 – <http://pics4all.jeppix.eu>
- 2 — EPIC is part of MIRPHAB – www.mirphab.eu
- 3 — EPIC is part of TERABOARD – www.teraboard.eu
- 4 — EPIC is part of PIXAPP – www.pixapp.eu
- 5 — EPIC is part of PASSION – www.passion.eu
- 6 — EPIC coordinates the joint dissemination of the EC funded pilot lines



PIC4ALL technical project meeting in Athens



PASSION Kickoff Meeting in Milan



MIRPHAB technical project meeting in Ozarow Mazowiecki



Pilot Lines booth at Group 4 Photonics in Berlin



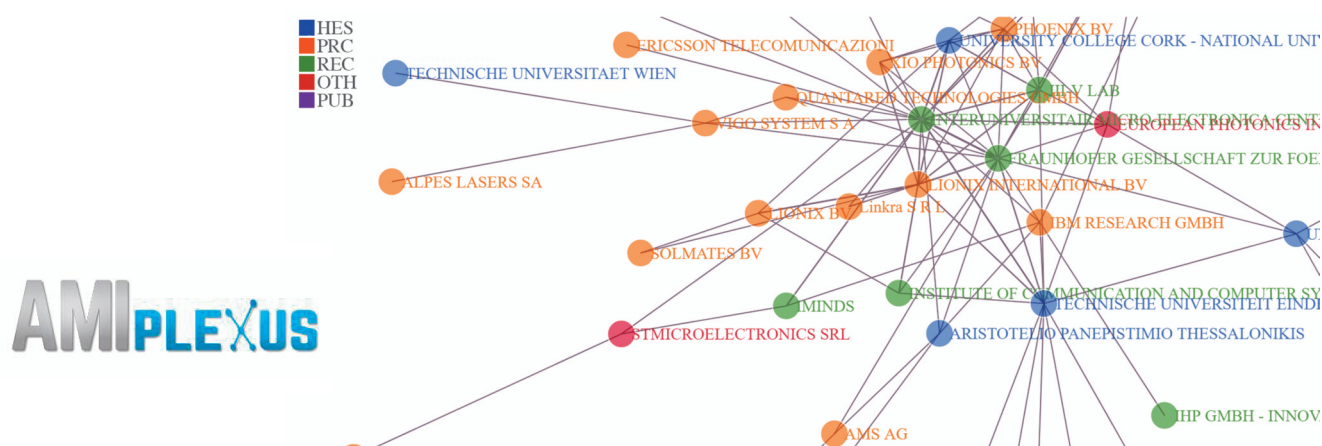
PIXAPP presentation at Photonics21 Annual Meeting in Brussels



TERABOARD review meeting at the European Commission

» 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



» 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 2017 we participated at the 3rd European Photonics Venture Forum in Dublin and organized the Entrepreneurship – Startup – Venture Forum in Berlin. EPIC also maintains a list of investments and M&A.

- List of Investment in Photonics – www.epic-assoc.com/funding/venture-finance
- List of Photonics Mergers & Acquisitions – www.epic-assoc.com/message-to-investors



EPIC moderates discussion at 3rd European Photonics Venture Forum in Dublin



EPIC Entrepreneurship - Startup - Venture Forum in Berlin



» ***“EPIC’s membership is mainly composed of small and young innovative companies, access to finance is crucial for scaling up their businesses and I am glad to be part of this initiative to take concrete actions to truly help.”***

Kurt Weingarten, General Manager, Lumentum (Switzerland)
Member of the EPIC Board of Directors

» EPIC PHOENIX AWARD

The EPIC Phoenix Award is presented annually to a company that exemplifies the challenges and merits of entrepreneurship. The company may have faced difficult times in developing its technology, selling its products, or raising capital, but ultimately managed to position itself as a successful company. Through perseverance, learning from mistakes, engaging its staff, customers, and stakeholders, the company eventually achieved its rebound to success. The EPIC Phoenix Award is a symbol of the challenging realities that entrepreneurs face and the journey that it entails.



Lars Penning and Ronny De Loor, founders of Next Scan Technology, recipients of the EPIC Phoenix Award 2017

Next Scan Technology is a leading supplier in polygon scanner systems providing an overview in emerging ultra short pulse laser applications. These systems are particularly advantageous in large format laser processing applications ranging from patterning display surfaces or scribing solar cells, to micro-drilling and processing of semiconductor wafers.

www.nextscantechology.com

► MEDIA RELATIONS & ARTICLES

EPIC is engaged on editorial boards, invited to press conferences, and regularly publishes articles that promote members of the association.

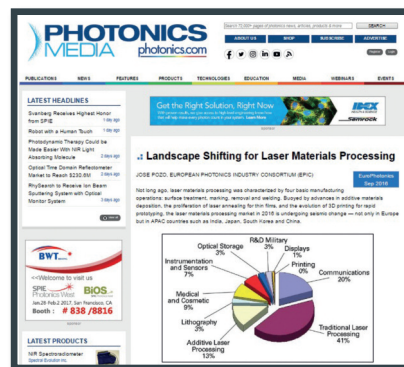
- 1 — EPIC publishes in Optik and Photonik "Mid-Infrared Chemical Sensors for Transport, Environment and Space" promoting EPIC members VIGO System, nanoplus, and Tematys
- 2 — EPIC publishes in Optik and Photonik "Optical Beam Shaping" promoting EPIC members Cailabs, Fraunhofer IWS, FTMC, New Infrared Technologies, and asphericon
- 3 — EPIC publishes in Optik and Photonik "Teraboard Project Closing in on Future of Telecommunications"
- 4 — EPIC publishes in Optik and Photonik "The Biophotonics Revolution in Healthcare"
- 5 — EPIC publishes in Europhotonics "Industry Pushing New Technologies for LIDAR" promoting EPIC members Finisar, MWTechnologies, Fastree3D, and Coherent
- 6 — EPIC publishes in Europhotonics "Solving the PIC Packaging Dilemma" promoting EPIC members IBM, Huawei, Finisar, imec, Tyndall National Institute, Eblana Photonics, ficonTEC, Fraunhofer HHI, KIT, Linkra, Phoenix Software, VTT, TU Eindhoven, Technobis IPPS, Lionix International, and CEA-LETI
- 7 — EPIC publishes in Europhotonics "Prospects Abound for Photonics in Space" promoting EPIC members CSEM, Avantes, Opticap and Alter Technology, and Technobis
- 8 — EPIC publishes in Europhotonics "Specialty Fibers Revolutionize Sensing" promoting EPIC members Leibniz Institute of Photonic Technology/IPHT Jena, Diamond, and Haute Ecole Arc Ingenierie
- 9 — EPIC publishes in PIC International "Continuous Monitoring of Chemicals in the Pharmaceutical Industry" promoting EPIC members CEA-Leti, Alpes Laser, Nanoplus, Vigo System, Phoenix Software, CSEM, IMEC, Tematys, IQE, Bosch
- 10 — EPIC publishes event summary "From Daylight to Lighting 4.0"
- 11 — EPIC publishes welcome address in 14th Optics Valley of China International Optoelectronic Exposition and Forum
- 12 — EPIC releases video promoting "What is a Photonic Integrated Circuit (PIC) and how does it make your product better?"
- 13 — EPIC publishes in Electro Optics "Impressions from the European Photonics Venture Forum"
- 14 — EPIC publishes in Electro Optics "The Netherlands becoming a leading photonics innovation hub"
- 15 — EPIC publishes in Electro Optics "EPIC photonics delegation to Israel"
- 16 — EPIC publishes in Electro Optics "IP considerations in photonics"
- 17 — EPIC publishes in Electro Optics "Photonics is and remains more than ever a strategic technology"
- 18 — EPIC publishes in Electro Optics "Delegation to Japan – Focus on photonic integrated circuits"
- 19 — EPIC publishes in Electro Optics "Witnessing a glimpse of Jiangmen's ambitions as a laser hub"
- 20 — EPIC publishes in Electro Optics "Strong political support of photonics - Photonics Park in Lannion"



LpS Press panel conference



micro photonics Press panel conference



Photonics media



Verslo žinios interview



Video interviews

» PARTNERSHIPS & MEMORANDUM OF UNDERSTANDING

- 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 — **CSA** – China SSL Association
- 5 — **DIGITALEUROPE**
- 6 — **FTTH Council Europe** – Fiber To The Home
- 7 — **GDLIA** – Guangdong Laser Industry Association
- 8 — **Greenlight for Girls**
- 9 — **IAESI** – Israel Association of Electronics & Software Industries
- 10 — **IOA** – International Optoelectronics Association
- 11 — **Joint Forces for Solar**
- 12 — **LightingEurope**
- 13 — **LUX Consortium in Singapore**
- 14 — **Nanophotonics Europe Association**
- 15 — **OES** – Organic Electronics Saxony
- 16 — **PETRA** – Photonics Electronics Technology Research Association
- 17 — **SEAFOM** – Fiber Optic Monitoring Group
- 18 — **SEMI** – Semiconductor Equipment and Materials International
- 19 — **The Association for Vertical Farming**
- 20 — **Wuhan Laser Industry Association**



»» *“I had the opportunity to introduce our 3D printing solutions at the EPIC Annual General Meeting. The amount of contacts I made was staggering! This was my first EPIC meeting, but I can see why these gatherings are so attractive and crowded. It is because of the amazing level of the attendees, and the enthusiasm and positive atmosphere that EPIC builds into its events!”*

Michael Thiel, CTO, Nanoscribe

►► COMMITTEES

- 1 — CESA – Committee member of Conference on Automotive Electronics
- 2 — ECIO 2018 – 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 2017 – 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



*In partnership with GDLIA
EPIC organized numerous company visits in Guangdong*



*In partnership with IAESI
EPIC organized a members delegation trip to Israel*



*In partnership with LUX Consortium
EPIC organized a members delegation trip to Singapore*



*In partnership with PETRA
EPIC organized a members delegation trip to Japan*



►► ***“AFE’s membership of the EPIC organisation ensures we have a broad spectrum of high quality events to attend regarding technology and market development opportunities. Always a good forum for partnership and customer interaction.”***

Mark Johnson, Director of Technology, AFE (Advanced Fibreoptic Engineering)

» PARTNER EVENTS

- 1 — 3D Printing Electronics Conference in Eindhoven
- 2 — 33rd European Mask and Lithography Conference in Dresden
- 3 — 4th PIC Workshop at OFC in Los Angeles
- 4 — 5th Workshop on Specialty Optical Fiber and Their Applications in Limassol
- 5 — 6th International Summer School “Trends & new developments in Laser Technology” in Dresden
- 6 — 9th International Summer School “New frontiers in Optical Technologies” in Tampere
- 7 — 9th Optoelectronics and Photonics Winter in Folgaria
- 8 — ECIO – European Conference on Integrated Optics in Eindhoven
- 9 — FOAN – Fiber Optics in Access Network in Munich
- 10 — IEEE Sensors in Glasgow
- 11 — ILAS – 5th Industrial Laser Applications in Grantham
- 12 — International MicroNanoConference in Amsterdam
- 13 — ITF – Imec Technology Forum in Antwerpen
- 14 — Laser & Photonics Marketplace Seminar in San Francisco
- 15 — Laser World of Photonics in Munich
- 16 — LpS – LED Professional Symposium in Bregenz
- 17 — Photonic Integration Week in Valencia
- 18 — Photonics for Automotive: Lighting the Future at Automobile in Barcelona
- 19 — PIC International Conference in Brussels
- 20 — PIC Training Silicon Valley in Santa Clara
- 21 — Special Workshop on “Photonic Integration: bridging technology push with industry needs” at Nanotechnology in Thessaloniki
- 22 — W3+FAIR – Optics, Electronics and Mechanics in Wetzlar
- 23 — Women’s Leadership in Science and Technology session at ECOC in Göthenburg
- 24 — Workshop on (Ultra) High Dynamic Range Imaging in Paris



»» *“EPIC is a vibrant network that stimulates innovation, and supports our ambition to maintain an oversight of the fast evolving photonics landscape. Through this platform, ESA is engaging with industry to identify innovations relevant to our business, while promoting our technological needs.”*

Iain McKenzie, Senior Engineer Optoelectronics Section, European Space Agency

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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Privada Cochabamba



CANADA
CMC Microsystems



BRAZIL
Josephine de Mello School



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Colegio Concepcion



CHINA - China Solid State
Lighting Alliance



ESTONIA
University of Tartu



HUNGARY
Holografika



EUROPE
MIRPHAB



FINLAND - Tampere
University of Technology ORC



GERMANY
Multiphoton Optics



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PCRL



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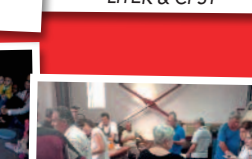
PARAGUAY - Sociedad
de Estudios Astronómicos



POLAND - Gdansk University
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



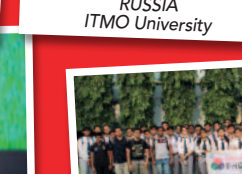
SWITZERLAND
II-VI Laser Enterprise



TAIWAN
Photonics Forum



UKRAINE - Design Zaporozhye
National Technical University



INDIA - Central Glass & Ceramic
Research Institute Kolkata



UNITED KINGDOM - Institution
of Lighting Professionals

» OUTREACH

In 2017 EPIC visited 165 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:**



Advanced Photonics



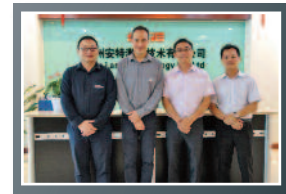
Alphanov



Amplitude Systemes



Angel India



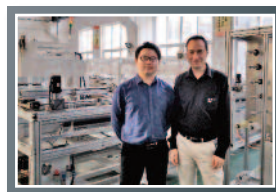
Antelaser



Antoni van Leeuwenhoek Hospital



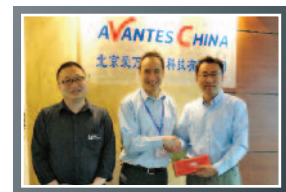
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CSEM



DelphiLaser



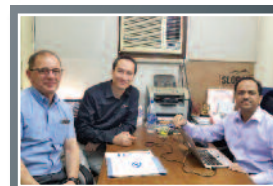
Dense Light



Diamond FO



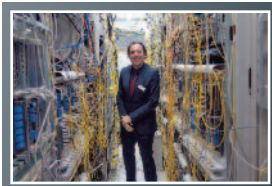
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Dynotech Instruments



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ECI



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GlobalFoundries



Golden Laser



Google



Grace Laser Technology



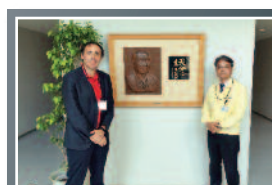
Guangzhou Being Nano-Instrument



Hamamatsu in Hertfordshire



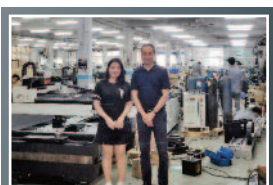
Hamamatsu in Mont-Saint-Guibert



Hamamatsu Japan



Han's Laser



Hanma Laser



HE Laser



HeroLaser in Shenzhen



HeroLaser in Suzhou



HG Tech



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HOLST



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Inngu Laser



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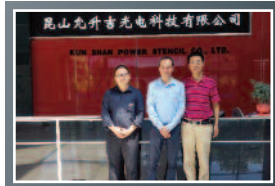
KJCNC



KingBeFound Laser



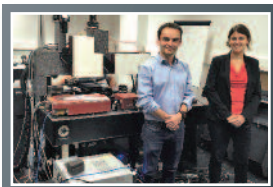
Kong King Technology



Kunshan Power Stencil



LASEA in Angleur



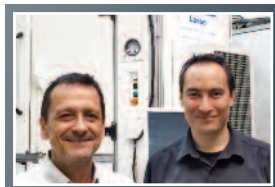
LASEA in Bordeaux



Laserline



Laserwave



LASSE



Lead Laser



LioniX International



LLK



Lumentum



Lumetrics



Luster



LYPE



MAX Photonics



MEHTA



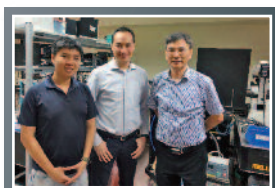
MicroPort



Nanyang Technological University



NRF Singapore



National University of Singapore



Northlab



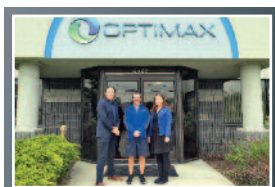
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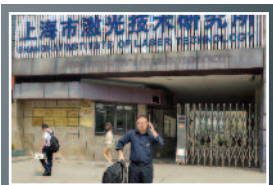
Sahajanand Laser Technology Ltd



Shanghai Academy of Science & Tech



Shanghai Institute Laser Technology



Shanghai Institute of Laser Tech



SIOM



SM Creative Electronics



SOLLIANCE



Spectra Physics



Spectral Engines



SPI Laser



SQS



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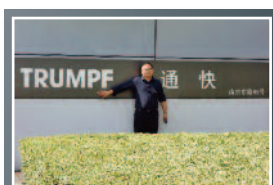
Sylex



THETA Laser



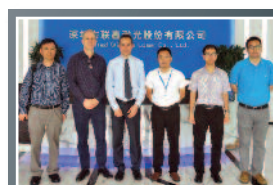
TRUMPF in Ditzingen



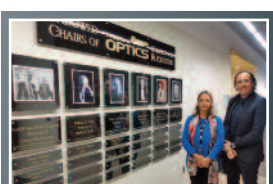
TRUMPF in Taicang



UGAM Beam science



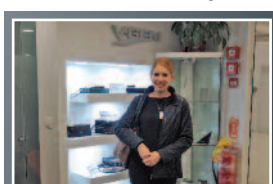
United Winners Laser



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VI Laser



Vigo System



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