

Activity Report 2014



Foreword – EPIC President	3
Introduction – EPIC Director General	3
I. EPIC – Advocacy	
I. EPIC advocacy initiatives	4
II. EPIC presence at EU events	6
III. Promoting education and training	7
II. EPIC – External Communications and Publications	
I. EPIC shares market and technology reports	8
II. EPIC organizes technology workshops	8
III. EPIC in the media	11
IV. EPIC members in the media	11
III. EPIC – Central Role in the Photonics Community	
I. EPIC venture and finance working group	12
II. Connecting with the industry	13
III. Sharing with the industry	14
IV. Learning from the industry	15
V. Rewarding the industry	16
VI. DAY OF PHOTONICS	17
IV. EPIC – The Association	
I. What is EPIC?	20
II. EPIC appoints new board members	20
III. EPIC is owned by its members and managed by its Board of Directors	20
IV. EPIC business partners	21
V. Maintaining a global network	22
VI. Membership fee structure	22

FOREWORD – EPIC PRESIDENT



Again this past year has seen EPIC go from strength to strength. The organisation has seen another year of very powerful growth in its membership which now counts more than 200 members. Furthermore, I would like to commend EPIC on its achievements in being the voice of the industry, creating a range of highly popular seminars and other extremely valuable membership benefits, reaching out to both the industry and policy makers and of course in establishing and growing a real photonics community within Europe.

I believe that this activity report is a good snapshot of how effective EPIC has been in the past year and hope that you too will feel proud to be part of this world class association.

A handwritten signature in blue ink that reads 'Drew Nelson'.

Drew Nelson, CEO, IQE

INTRODUCTION

EPIC has focused on establishing itself in the past year, we have done so by trying to be even more impactful than in the past. Our membership has grown considerably, our presence at advocacy events and industry events has increased as well and of course our external visibility as an organisation and an industry sector too.

Furthermore we continue to strive to support the photonics community. One way in which we did this is by setting up the EPIC venture and finance working group to support innovation in our field, and promote our industry by organizing an international DAY OF PHOTONICS.



This activity report outlines the work accomplished in the past year. **Enjoy!**

A handwritten signature in blue ink that reads 'Carlos Lee'.

Carlos Lee
Director General
EPIC – European Photonics Industry Consortium
carlos.lee@epic-assoc.com

» EPIC'S ADVOCACY INITIATIVES

EPIC's advocacy initiatives were not only focused on the traditional advocacy channels of reaching out to the European institutions, instead we focused on reaching out to Europeans at large. Below you will find a listing of activities that EPIC undertook to create grass-root understanding of our industry.

1. — EPIC organized in 30 countries DAY OF PHOTONICS
2. — EPIC initiated a student "Travel Grant" sponsored by Edmund Optics
3. — EPIC member book report by Zumtobel on "Optical Switches: Materials and Design"
4. — EPIC met with school teachers for Laser training kit at Fraunhofer IWS Open House in Dresden
5. — EPIC animated a photonics workshop at "Greenlight for Girls" in Brussels
6. — EPIC introduced photonics to 1st year students at Institut d'Optique Graduate School in Paris
7. — EPIC joined an industry statement on "Fostering trade partnership and cooperation between the EU and Japan"
8. — EPIC was represented by Avantes at the European Commission Workshop on Skills and Education for Key Enabling Technologies
9. — EPIC was represented by Optitec and KTN at the European Commission Workshop on Smart Specialisation Strategies
10. — EPIC spoke at the European Parliament in Strasbourg
11. — EPIC spoke at the Congress on Automotive Electronic Systems in Paris
12. — EPIC spoke at the LED professional Symposium – LpS in Bregenz
13. — EPIC is "Gold Associate" sponsor of the International Year of Light
14. — EPIC publishes a video "Photonics is Everywhere!" with subtitles in 8 languages and viewed almost 10.000 times



EPIC video "Photonics is Everywhere!" with subtitles in 8 languages viewed almost 10.000 times.



EPIC Travel Grant sponsored by Edmund Optics offered to Scott Reynolds, PhD in Photonics at ORC from Southampton University who attended the Photonics Packaging workshop in Berlin. 10-11 September 2014



EPIC presents at the European Parliament in Strasbourg the particular features of the European Photonics ecosystem. 6 February 2014



EPIC co-organized a meeting on "Photonics Driving Economic Growth in the Regions". The event took place in Brussels on 21 October, and the attendees cheered for DAY OF PHOTONICS.

» EPIC PRESENCE AT EU EVENTS

However we also covered a number of European institution focus events as you will see below:

1. — European Business Summit
2. — European Commission Information Day on Organic Electronics in Horizon 2020
3. — European Commission Key Enabling Technologies High-Level Group meeting in Brussels
4. — European Commission Workshop on Education, Training, Skills
5. — European Commission Information Day on H2020
6. — Photonics21 Annual Meeting
7. — Photonics21 Work Group on Security, Metrology and Sensors
8. — European Project: EcoLaserFact
9. — European Project: NEXPRESSO final review meeting
10. — Brokerage Event of ECSEL Joint Undertaking
11. — Workshop “Enhancing dual-use technologies and products as a regional competitiveness factor”
12. — Workshop on “Fostering skills in Europe for Key Enabling Technologies”
13. — Workshop on “State-of-play analysis of skills for Key Enabling Technologies”
14. — Workshops CRM_InnoNet (Critical Raw Materials)
15. — Workshop on “System architecture enhancing the capabilities of sensor suites to improve situational awareness including aspects of sensor fusion”
16. — Regulatory meeting on GaAs and REACH in Brussels
17. — SEMI Brussels Forum



Andres Cifuentes from ASE Optics at Workshops CRM_InnoNet (Critical Raw Materials) in Brussels. 13 May 2014



Benno Oderkerk, CEO of Avantes and member of the EPIC Board of Directors presents at workshop of the European Commission in Brussels to share his views on Education and Skills. 10 June 2014



Optitec and KTN at the European Commission workshop in Brussels on Smart Specialisation Strategies. 18 June 2014

 *I particularly appreciate the work that EPIC does with the EU, as this means that the industry gets a much closer insight into the thought process and influence areas of interest to our company.”*

Hans van den Vlekkert, CEO, LioniX

» PROMOTING EDUCATION AND TRAINING



Meeting school teachers at Fraunhofer IWS to explain the laser outreach training kit for children. 26 February 2014



EPIC members representing universities and research organizations present at Laser Optics Berlin. 19 March 2014



Visit to Turtlewings. 7 June 2014



Participation at EXPO Science. 25 April 2014



Introducing Photonics to 1st year students at Institut d'Optique Graduate School. 9 September 2014



EPIC welcomes IOGS stagiaire Julien Trastour from June-August 2014.



Workshop on photonics at Greenlight for Girls. 29 November 2014



Presenting the new IYL 2015 Training Kit from Laserclassroom®.

» EPIC SHARES MARKET AND TECHNOLOGY REPORTS

1. — **2014 Silicon Photonics report.** Published by Yole. Beyond all of the hype and tumult, market drivers and technological developments are converging to ensure a bright future for Silicon Photonics.
(268 slides, non-member retail price 5990 EUR.)
2. — **2014 Lasers Market Review and Forecast.** Published by Strategies Unlimited, the report analyzes each application and provides forecasts for units, ASPs, and revenues by laser application through 2017.
(220 pages, non-member retail price US\$ 4950.)
3. — **2014 LED Front-End Manufacturing Trends Report.** Published by Yole, a comprehensive survey of LED Front-End manufacturing, covering main process steps and technological trends.
(MS Excel spreadsheet and 314 slides, non-member retail price 5990 EUR.)
4. — **2014 Solid State Medical Imaging Report: X-Ray and Endoscopy.** Published by Yole (317 slides, non-member retail price 5990 EUR).
5. — **2015 Photonics Technologies for ADAS in the Automotive** (Advanced Driver Assistance Systems).
Published by TEMATYS (204 slides, non-member retail price 4990 EUR).



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

» EPIC ORGANIZES TECHNOLOGY WORKSHOPS

EPIC strengthens the connections among its members by creating fora to meet, discuss challenges and opportunities, and explore collaboration opportunities. 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 Workshop on **Optical Interconnect in Data Centers** in Berlin
2. — EPIC Workshop on **Photonics in Automotive** hosted by PSA Peugeot Citroën in Paris
3. — EPIC **Laser executive meeting** hosted by DILAS in Mainz-Hechtsheim
4. — EPIC Meeting on **Photonic Integrated Circuits standardization** hosted by VERTILAS in Garching
5. — EPIC Dinner on Photonic Integrated Circuits in Cannes
6. — EPIC **Workshop on Entrepreneurship** hosted by Fraunhofer HHI in Berlin
7. — EPIC Workshop on **Photonic Integrated Circuits “Electronics-Photonics Integration and Packaging”** hosted by TE Connectivity in ‘s-Hertogenbosch
8. — EPIC Workshop on **Sensors for Agriculture** hosted by Avantes in Apeldoorn
9. — EPIC B2B Roundtable on **Laser Technologies for Applications and Systems in Defense & Security**
10. — EPIC Workshop on **Intra-Operative Assessment of Tumor-Resection Margins** in Rotterdam
11. — EPIC Presentations on Education & Research session in conjunction with Laser Optics Berlin
12. — EPIC co-organizes Workshop **Photonics Driving Economic Growth in the Region** in Brussels
13. — EPIC B2B Roundtable on **High Resolution Imaging for Security and Defence** hosted by Selex ES in Rome



In the EPIC network you identify promising technical opportunities to innovate a continuous stream of new products that meet market needs."

Rolf Münter, Head of Business Development,
AIM INFRAROT-MODULE



EPIC Workshop on Optical Interconnect in Data Centers sponsored by Berlin Partner.



EPIC Workshop on Photonics in Automotive hosted by PSA Peugeot Citroën in Paris.



EPIC Meeting on Photonic Integrated Circuits standardization hosted by Vertilas in Garching.



EPIC Laser Executive Meeting hosted by DILAS in Mainz-Hechtsheim.



EPIC Networking Dinner on Photonic Integrated Circuits in Cannes, in conjunction with ECOC.



EPIC Workshop on Entrepreneurship sponsored by Berlin Partner.



EPIC Workshop on Photonic Integrated Circuits “Electronics-Photonics Integration and Packaging” hosted by TE Connectivity in ‘s-Hertogenbosch.



EPIC Workshop on Sensors for Agriculture hosted by Avantes in Apeldoorn.



EPIC B2B Roundtable on High Resolution Imaging for Security and Defence hosted by Selex ES in Rome.

EPIC B2B Roundtable on Laser Technologies for Applications and Systems in Defence & Security in Paris.



EPIC Workshop on Intra-Operative Assessment of Tumor-Resection Margins in Rotterdam.



EPIC Presentations on Education & Research session, in conjunction with Laser Optics Berlin.

EPIC Workshop on Global Opportunities to Finance Research and Innovation, in conjunction with ECOC.



At EPIC workshops we meet customers and early adopters in the marketplace in order to gain insight into market trends."

Luc Coupet, Sales Engineer, Andor
(an Oxford Instruments company)

» EPIC IN THE MEDIA

1. — Article in European Energy Innovation on "Adoption of LEDs in Smart Lighting Systems"
2. — Article in EuroPhotonics on "Tech Workshop Focuses on PIC Packaging"
3. — Article in Optical Interconnect on "Photonics Integrated Circuits Packaging Standardization"
4. — Article on "The benefit of photonic technologies in rural areas"
5. — Editorial "Photonics UK re-value creation"
6. — Interview in LaserFocusWorld on "A vibrant European photonics ecosystem"
7. — Interview in Photonics BB cluster

» EPIC MEMBERS IN THE MEDIA

EPIC uses its extensive network of media partners to publish articles for its members.

1. — **Alphanov** in Industrial Photonics magazine on "Lasers Produce Bio-Inspired Surface Functions"
2. — **CMC Microsystems** in CMM magazine on "New SOI-based Process Platform for Complex MEMS Devices"
3. — **Nanovation** in Compound Semiconductor magazine on "Accelerating adoption of GaN substrates for LED manufacture"
4. — **VLC** in Optical Connections magazine on "Mobile and radio telecommunications enabled by microwave photonic integration"
5. — **XiO Photonics** in CMM magazine on "Controlling transport and properties of light – Photonic Integrated Circuits (PIC) for Visible Light"
6. — **Fraunhofer ISE** in European Energy Innovation on "Power by light: Optical power transmission replaces copper wiring"
7. — **ICFO** in European Energy Innovation on "Transparent photovoltaic solar cells in building facades towards zero emission buildings"
8. — **Route Des Lasers** in China Laser Manufacturing News
9. — **ICFO** in International Innovation on "Nanophotonics"
10. — **VI-Systems** in Optical Connections News on "Do we need fundamentally novel technologies to address the ever-growing speed of electrical and optical interfaces?"
11. — **VLC article** in Elektronik on "Eine elektrooptische Konversion ist immer teuer"
12. — **Next Scan Technologies** and **VI-Systems** in "Laser Marketplace 2014: Lasers forge 21st century innovations"



» EPIC VENTURE AND FINANCE WORKING GROUP

Created in 2014, the EPIC Venture and Finance Working Group 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 new Venture and Finance Working Group 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.

 *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 for taking concrete actions to truly help."*

Kurt Weingarten, Managing Director, JDSU Ultrafast Lasers AG.
Member of the EPIC Board of Directors.

EPIC VENTURE AND FINANCE WORKING GROUP

- Chairman: Kurt Weingarten, Managing Director, JDSU Ultrafast Lasers AG (Switzerland)
- Vice-Chairman: Giorgio Anania, CEO & President, ALEDIA (France)
- Andreas Umbach, Vice President and General Manager, Finisar (Germany)
- Christian Neumeyr, CEO & Founder, Vertilas (Germany)
- Christian Velez, CEO, EXALOS (Switzerland)
- Drew Nelson, CEO & Founder, IQE (United Kingdom)
- Eric Mottay, CEO & Founder, Amplitude Systèmes (France)
- Graeme Malcolm, CEO, M Squared Lasers (United Kingdom)
- Hans van den Vlekkert, CEO & Founder, LioniX (The Netherlands)
- Hugues Tariel, CEO & Founder, DIAFIR (France)
- Jan Meise, CEO & Founder, AMS Technologies (Germany)
- Joerg Muchametow, CEO & Founder, eagleyard Photonics (Germany)
- Maria Titova, CEO, Technospark Nanocenter (Russia)
- Michael Lebby, Chair of Optoelectronics, Glyndwr University (United Kingdom)
- Miguel Melo, Managing Director, MW Technologies (Portugal)
- Nick Martin, Managing Director, Advanced Fibreoptic Engineering (AFE) (United Kingdom)
- Petteri Uusimaa, CEO & Founder, Modulight (Finland)
- Pim Kat, CEO & Founder, Technobis (The Netherlands)
- Ruth Houbertz, CEO & Founder, Multiphoton Optics (Germany)
- Thierry Gonthiez, CEO & Founder, Resolution Spectra Systems (France)
- Wolfgang Gries, CEO & Founder, DirectPhotonics (Germany)
- Young Kwon, Managing Director, Powerlase (United Kingdom)

 *We need to be out there pushing to attract finance to the photonics sector and improve business conditions for the entrepreneurs among EPIC's members. Photonics technologies are at the heart of the next industrial revolution and we can accelerate the pace of innovation by bringing more funds into the sector."*

James Cogan, Coordinator of the EPIC Venture and Finance Working Group



EPIC Entrepreneurship Workshop, moderated by Milton Chang, hosted by Fraunhofer HHI in Berlin

» CONNECTING WITH THE INDUSTRY

EPIC EXHIBITS AT INTERNATIONAL EVENTS

1. — AKL – International Laser Technology Congress in Aachen
2. — ECOC in Cannes
3. — International Laser Symposium in Dresden
4. — Laser Optics Berlin
5. — LED professional Symposium & Exhibition (LpS) in Bregenz
6. — OPTO ENOVA in Paris
7. — Photonex UK in Coventry
8. — SPIE Security + Defense in Amsterdam
9. — Photonics Event in Veldhoven

EPIC IS INVOLVED IN INDUSTRIAL AND EUROPEAN NETWORKS

1. — Invest in Photonics
2. — European Defence Agency CapTech 3
3. — International Symposium on Optronics in Defence and Security
4. — EuroNanoForum International Advisory Group
5. — REACH Stakeholder
6. — Photonics21 Board of Stakeholders
7. — European Commission Transparency Registry

EPIC ASSOCIATION PARTNERS





EPIC effectively connects European photonics companies with each other and with European authorities. The information about European initiatives and the great network of international members from our industry are unrivalled."

Thomas Kessler, Executive Vice President Global Sales,
Vice President European Operations, Edmund Optics

EPIC WAS PRESENT AT THE FOLLOWING INDUSTRY EVENTS

1. — IMEC Technology Forum in Brussels
2. — Invest in Photonics Convention in Bordeaux
3. — EcoLaserFact in Mol
4. — Optatec Exhibition in Frankfurt
5. — Photonics Europe Exhibition in Brussels
6. — Smart Lighting Conference in Barcelona



EPIC promotes our company's technological leadership and helps us interact with key members in the Photonics industry."

Eric Mottay, President and CEO, Amplitude Systèmes

» SHARING WITH THE INDUSTRY

EPIC members publish reports to the benefit of the industry at large.

1. — VISION Vehicle Safety in Adverse Conditions and Night Driving, Cannes (C. Bouyé, TEMATYS)
2. — Large-area Solid State Lighting, Muttenez (W. Hertog, IREC)
3. — LpS LED Professional Symposium, Bregenz (O. Fernandez, CSEM)
4. — Strategies in Biophotonics, Boston (M. Faucheux, LMDC)
5. — T (Trillion) Sensors Summit, Munich (T. Moritz, AMS Technologies)
6. — SPIE Security+Defence 2014, Amsterdam (N. Picard, SensUp)
7. — Photonics Packaging Workshop, Berlin (H. Schroeder, Fraunhofer IZM)
8. — Symposium on the Science and Technology of Lighting, Como (C. Sciascia, SAES Getters)
9. — Workshop on Intra-Operative Assessment of Tumor-Resection Margins, Rotterdam (F. Wieringa, TNO)
10. — ITF Imec Technology Forum 2014, Brussels (A. Tzannis, IMT)
11. — Photonic Integrated Circuits Packaging, 's-Hertogenbosch (J. Pozo, PNO)
12. — Smart Lighting 2014, Barcelona (J. Cochard, TEMATYS)
13. — Photonics in Life Science 2014, Muttenez (M. Faucheux, LMDC)
14. — OFC 2014, San Francisco (K.Lawniczuk, JePPIX)
15. — Laser Market Seminar 2014, San Francisco (T. Robin, TEMATYS)

Initiated by the founder of EPIC Dr. Thomas Pearsall in 2003, these reports are prepared by members of EPIC to the benefit of the wider community. If you did not have a chance to attend the event but would like to know some key highlights, these reports are for you. Emphasis is placed on exploring technical and business opportunities for the members of EPIC.



Through the EPIC network I discover and validate new technologies that are relevant in the development of our product roadmap."

René Heideman, CTO, Lionix

» LEARNING FROM THE INDUSTRY

EPIC OUTREACH TO 36 COMPANIES IN 2014 – LISTENING TO INDUSTRY CHALLENGES AND IDENTIFYING OPPORTUNITIES

Alphanov, Amplitude Systèmes, AMS Technologies, ANSTO, Australia National University, Avantes, CEA-Leti, DILAS, Eolite, EVG, Finisar, Fraunhofer IWS, ICFO, IMB, IME, INL, IREC, Lasea, LEDMOTIV, Nanoscribe, Nanovation, Nanyang Technological University, PI miCos, Powerlase, Resolution Spectra Systems, Robert Bosch, Sofradir, UPC-CD6, University of Barcelona, University College London, Vertilas, VITO, WJA, Wroclaw University of Technology, Yenista, Yole.



Amplitude Systèmes



AMS Technologies



Art Photonics



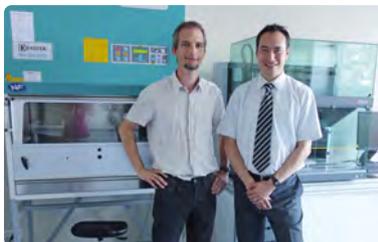
IMT



ICFO



Eolite



INL



PI MiCos



Nanoscribe



Powerlase



Resolution Spectra Systems



WJA



Sofradir



Meeting with Akira Hiruma, President and CEO of Hamamatsu, and the European management team.

EPIC – MEMBERSHIP DEVELOPMENT

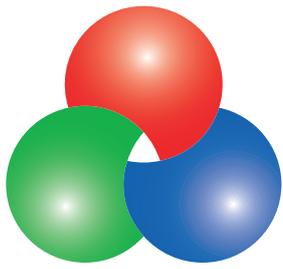
This past year we had a whopping 74 companies become member of EPIC: Acal BFi, Advanced-Vacuum, AGVA Healthcare, Altechna, AMS Technologies, Andor, APC (Advanced Packaging Center), Avantes, Berlin Partner, Boschman Technologies, CAILabs, CMC Microsystems, Cobolt, Coherent, DAS Photonics, Delta Optical Thin Films, DILAS, Direct Photonics, Dublin Institute of Technology, Eagleyard, Ebara Precision Machinery, ELTech, EVG, Finisar, Glyndwr University, Heriot-Watt University, INL, International Laser Center, IPHT, JePPIX, Keopsys, KIT, Lithuanian Laser Association, Lueger Research, M Squared Lasers, Mikrocentrum, Modulight, Multiphoton Optics, mut, Nanofoot, Nanoscribe, nanosystec, Ocean Optics, ORC (University of Southampton), PETRA, Photon Export, Photon Lines, Photon Transfer, Photonics Finland, Photonics Marketplace, Photonics NL, PI miCos, Plasma-Therm, Politecnico di Torino, Prima Electro, Quanta System, Resolution Spectra Systems, RP Photonics, SABIC, Sapienza University of Rome, Satrax, See Fast Technologies, SensUp, Sofradir, SQS, TE Connectivity, Technobis, Torbay Development Agency, University Mediterranea of Reggio Calabria Department of Information Engineering Infrastructure and Sustainable Energy (DIIES), University of Paderborn, vario-optics, W.O.M. WORLD OF MEDICINE, Workshop of Photonics, XL Strategy.

» REWARDING THE INDUSTRY

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, raising capital, but ultimately managed in positioning 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 this entails. This year the Phoenix Award was presented to Avantes for its achievements.



EPIC Phoenix Award 2014 presented to Benno Oderkerk, CEO and co-founder, Avantes



DAY OF PHOTONICS

21 OCTOBER

DAY OF PHOTONICS, initiated by EPIC, is a biennial global event that promotes “photonics” towards the general public. Companies, research organizations, and organizations involved in photonics reach out to their communities to raise awareness about what is photonics and why it is important. In its inaugural edition, 130 organizations in 30 countries around the world participated. www.day-of-photonics.org

» SPONSORS AND SUPPORTERS

- **Gold Sponsor:** Swiss Photonics
- **Silver Sponsors:** Advanced Fibreoptic Engineering, CEA-Leti, FiconTEC, Hamamatsu, Ocean Optics
- **Bronze Sponsors:** AMS technologies, Art Photonics, Avantes, Berlin Partner, Center for medical Sciences and technology, CSEM, Delta, Edmund Optics, Knowledge Transfer Network, Lithuanian Laser Association, Vertilas
- **Platinum Supporters:** Compugraphics, DIAFIR, EVG, LightJumps, Lionix, Next Scan Technology, TU Eindhoven / COBRA, Vistec Electron Beam
- **Gold Supporters:** CAILabs, Cobolt, Eblana, LightTrans, XiO
- **Silver Supporters:** Evana, Phoenix Software
- **Bronze Supporter:** VLC Photonics

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. Any 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.



AFE welcomes students from Wood Green School in Witney, United Kingdom



Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan



Amplitude Systemes, Pessac, France



COBOLT, Solna, Sweden



Center for Young Scientists, Pudak Scientific, Indonesia



Australia National University, Canberra, Australia



University of Latvia, Riga



Warsaw University of Technology, Poland



Visit of 4th grade school children at National Technical University of Athens



Institute of Chemistry (UNESP) in Brazil



UCSB, California, USA



DELTA Photonics team, Denmark



ROFIN Asia Sales Meeting in Singapore



GEOCACHING PHOTONICS, Optics Balzers, Germany



EVG, St. Florian am Inn, Austria



IR Photonique - Sofradir, France



Modulight Family Day, Tampere, Finland



OSA SPIE Student Chapter in Ukraine (ILTPE NASU)



Laser show for the Day of Photonics, Lithuania



Universidade de Aveiro, Portugal



International Laser Centre, Bratislava, Slovak Republic



Tartu University, Estonia



TOSA - Things On Silicon Alliance, Taiwan



University of Limerick, Ireland (Students learn about photonics principles and optical instrumentation in hands-on practical sessions)



IREC - Catalonia Institute for Energy Research, Barcelona, Spain



Bethlehem University in Palestine (video conference)



FiconTEC, Achim, Germany



CMC Microsystems, Canada



technospark

Technospark, Troisk, Russia



Scuola Superiore Sant'Anna, Pisa, Italy

» WHAT IS EPIC?

EPIC is the industry association that promotes the sustainable development of organisations working in the field of photonics in Europe. 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, coordinates EU funding proposals, advocacy and lobbying, education and training activities, standards and roadmaps, pavilions at exhibitions.

» EPIC APPOINTS NEW BOARD MEMBERS

- **Benno Oderkerk, CEO and co-founder, Avantes**

Avantes is a spectroscopy company that designs, produces and sells miniaturized fiber coupled UV/VIS/NIR spectrometers, light sources, fiber-optics and accessories for applications in the scientific, medical, agriculture, and semiconductor markets. Benno Oderkerk is the co-founder, shareholder and CEO of Avantes. Oderkerk has a background in electronics and medical technology. He studied at the University of Twente, Netherlands and did his Master's thesis at Technion, Israel Institute of Technology in Haifa in 1988. Since then he worked for 5 years in a small sensor company in Munich and in 1994 started TOP Sensor Systems, which was renamed to Avantes in 2000. As a CEO Benno is responsible for 85 employees worldwide, the strategic development of Avantes and its affiliated companies in China, USA and UK.

- **Petteri Uusimaa, President and CEO, Modulight**

Modulight designs and manufactures laser components systems for life science and industrial markets. Petteri Uusimaa is a founder and CEO of Modulight, an ISO9001, ISO14001, and ISO13485 certified laser solutions provider based in Tampere, Finland and San Jose, CA, USA. Prior to joining Modulight in 2000 he was a founder and Managing Director of Nordic Epitaxy, a company providing compound semiconductors to photonics and microwave industries. Since 1997, Dr. Uusimaa has been managing semiconductor and laser related sales to multinational companies. He has a PhD degree in semiconductor physics from Tampere University of Technology.

» 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)
- Drew Nelson, President & CEO, IQE (United Kingdom)
- Martin Schell, Director, Fraunhofer HHI (Germany)
- Heinz Seyringer, Head of Research Collaborations, Zumtobel Lighting (Austria)
- Kurt Weingarten, Managing Director, JDSU Ultrafast Lasers (Switzerland)
- Maurizio Zuffada, Director Advanced R&D, STMicroelectronics (Italy)
- Petteri Uusimaa, President & CEO, Modulight (Finland)



EPIC Board of Directors meeting, hosted by Zumtobel Group, Europe's largest professional lighting company.

Dornbirn, Austria.

3 September 2014

» EPIC BUSINESS PARTNERS



OptoIndex exists since 2001 and is published every year. 15000 copies of this Photonics Buyers Guide directory are printed, of which 7000 copies are directly mailed and 8000 copies distributed at exhibitions. Check that your company is listed on www.opto-index.de/ot and increase your visibility by taking an advertisement/logo, possibilities starting at 660 EUR. EPIC members benefit 15% discount.

Contact: Constanze Classen at constanze.classen@opto-index.de



RP Photonics Consulting offers technical consulting and simulation software in the area of photonics. On its website, it hosts the famous Encyclopedia of Laser Physics and Technology and the RP Photonics Buyer's Guide, listing many suppliers worldwide for many hundreds of products in photonics. EPIC members benefit from a 20% discount on enhanced product and company entries, giving them substantially increased visibility. For example, product descriptions and product images can be published.

Contact: Dr. Rüdiger Paschotta at Paschotta@rp-photonics.com



BLUMORPHO provides support to EPIC members to discuss any business or market related topics. Talking with an external person may help to provide a different perspective and to tackle issues from a different angle. Brainstorming with someone who has experience of working with many companies from various sectors can result in approaching issues from a different viewpoint and reflect aspects not previously considered. The interaction takes place over the phone, in confidentiality, and free to EPIC members (non-members may apply at a rate of 550 EUR/hour).

Contact: Géraldine Andrieux-Gustin at andrieux@bmorpho.com

» BOOTH SHARING

- EPIC members Soitec and MW Technologies share booth at ECOC
- DELTA joins EPIC pavilion at Photonex UK
- EPIC pavilion at OFC features 5 members: Bright Photonics, JePPIX, Smart Photonics, VLC, Yelo

» MAINTAINING A GLOBAL NETWORK

While EPIC is a European oriented association, we have members in Australia, Canada, China, Japan, Russia, USA, and continuously seek to build global bridges that will facilitate for our members to make connections around the world. All EPIC members sell globally, therefore it is important to maintain a global network. EPIC is member of the IOA (International Optoelectronics Association) and ISA (International SSL Association).



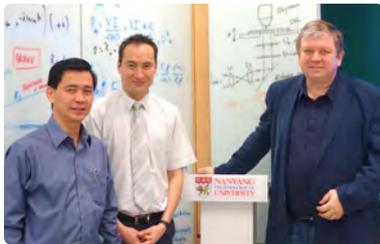
Mount Stromlo in Canberra



Australia National University



*IME A*STAR in Singapore*



Nanyang Technological University



Finisar in Sidney



Yenista in Singapore



High Intensity Neutron Diffractometer at Australian Nuclear S&T Organization

» MEMBERSHIP FEE STRUCTURE

- Company with annual revenue over 100 million EUR: 6000 EUR
- Company with annual revenue between 10-100 million EUR: 4000 EUR
- Company with annual revenue under 10 million EUR: 2000 EUR
- Start-up (company less than 2 years): 500 EUR
- University and Research Organization: 2000 EUR
- Association and Cluster: 2000 EUR



EPIC members drive the photonics revolution!





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