PhotonicSweden

The Swedish Technology Platform in Optics and Photonics

SOS Svenska OptikSällskapet
Swedish Optical Society
the Swedish Branch of the European Optical Society

Nyhetsbrev från PhotonicSweden och Svenska OptikSällskapet

Innehåll

PhotonicSweden member newsletter September issue 2016 (02/2016)

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The Swedish Technology Platform in Optics and Photonics

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Hej Optik / Fotonik vänner !

Höstens kraftigast lysande ljuspunkt är OptikFotonik 2016. I år arrangerad i Linköping. Vår årliga OptikFotonik-konferens har etablerat sig som Nordens viktigaste årliga optik/fotonik evenemang. Ett viktigt skäl till detta är den bredd med vilken vi försöker presentera vad som händer inom optik/fotonik företrädesvis i Sverige. Om än med fokus på Sverige så ryms ofta utländska utställare och internationella *key note speakers*; aktuella trender inom optik/fotonik inom både näringsliv och akademi presenteras; möjligheter att hitta expertkunnande inom vitt skilda delar av optik/fotonik är stor. PhotonicSweden strävar efter att år för år förbättra denna centrala mötesplats för nordisk optik/fotonik. För dem av er som inte ännu deltagit på vår årliga konferens rekommenderar jag starkt att ni kommer till Linköping någon av eller båda dagarna (2 och 3 november). Ni kommer inte att ångra er. Möjligheterna till mingel och utbyte av tankar, tjänster och produkter är goda och många.

Avslutningsvis vill jag också uppmärksamma PhotonicSwedens alla medlemmar att vi under hösten gör en stor insats för att förbättra vår hemsida. Steg för steg vill vi göra den mer användarvänlig, mer interaktiv och tydligare vad gäller vad vi ger till er som medlem och vad vi mer allmänt informerar om till en intresserad allmänhet. Följ gärna den utvecklingen och vi tar tacksamt emot era konstruktiva kritiska synpunkter – men även de som enbart är positiva !!

Framtiden är ljus !
Magnus
ordförande PhotonicSweden

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Optics & Photonics in Sweden conference (OPS) 2016 will be held 2 - 3 November 2016 at the Concert and Congress Center, Linköping (Arenabolaget); http://arenabolaget.se/

Invited talks will cover a variety of topics in Optics and Photonics, reflecting current Swedish research and development at universities, institutes and in the industry.

For exhibiting companies, there will be a matchmaking with students looking for a job.

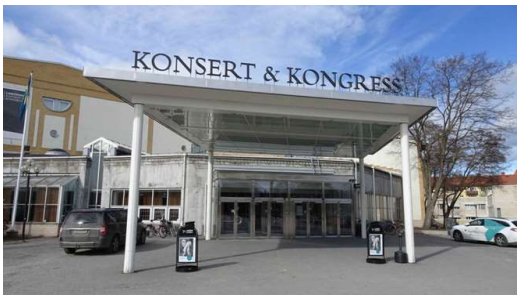
See priliminary programme: http://www.photonicsweden.com/files/OPS2016/OPS_2016_preliminary_programme.pdf

Register here:

OPS2016Exhibitors

OPS2016Participants

OPS2016Speakers



Keynote speakers (Mikael Eriksson, MAX IV; Ove Steinvall, Swedish Defence Research Agency (FOI); Anders Ynnerman, Norrköping Visualization and Interaction Studio (NVIS))

A poster session will provide an additional opportunity to display to the most recent developments and achievements. It will also give an overview of Optics and Photonics in Sweden and offer a good platform for creating new collaborations.

ABSTRACT SUBMISSION FOR POSTER PRESENTATIONS

Abstracts can be sent in to petra@photonicsweden.org
Deadline for abstracts: 17th of October 2016
Authors are requested to submit an abstract of a half to one page (font 11, including figures and references)
Contributions will be accepted for poster presentation.

Required poster size: The posters should have a maximum size of DIN A0 (841 x 1189 mm) preferably in a portrait format (not landscape format). Pins and similar pads will be provided by the organizer.
All authors are requested to register for the meeting separately from abstract submission.

An exhibition and a session with company presentations will be held in parallel to the technical sessions to provide industry, institutes and associations an opportunity to display their products and services and bridge the gap between science and industry.

Questions about exhibition can be sent to lennart@photonicsweden.org

The conference is organised by PhotonicSweden (PS) and the Swedish Optical Society (SOS).

General Chair:
Mikael Lindgren, IFM-Linköping University/NTNU (mikael.lindgren@ntnu.no)
Co-Chair:
Lars Sjöqvist, FOI, Linköping (larsjo@foi.se)- See more at: http://www.photonicsweden.com/optics-and-photonics-sweden-2016-ops-2-3-november-link-ping

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News from the Advocacy Platform of "Smartare Elektroniksystem

PhotonicSweden members

Following an observation that Swedish actors are not always sufficiently active in European discussions determining the calls from the European Commission for collaborative projects, Vinnova launched in 2013 a programme entitled: "Nationella påverkansplattformar för ökat deltagande i Horisont 2020" (National Advocacy Platforms to increase the participation in Horizon 2020). As a matter of fact, it is maybe not in the Swedish habits, and probably even less among scientists and engineers, to lobby and push for their own interests. The advocacy platform of Smartare Elektroniksystem (Electronics Components and Systems or ECS in English) was launched in March 2015 with a focus on a limited but major part of the strategic programme including photonics, micro-nano-electronics, printed electronics, smart systems and embedded systems.

The basic idea of this advocacy platform is to organise the Swedish actors in the chosen focus areas, discuss common needs in terms of collaborative projects at the European level, take part in meetings in Europe preparing future calls of the Commission and eventually take benefit of tailored calls to win new and strong EU projects. The intention has thus been to democratise the advocacy process and involve sufficiently many players in Sweden to prepare common actions instead of letting isolated individuals lobbying for, and only for, their own organisation. PhotonicSweden has been taking benefit of its work groups to prepare the participation of chosen representatives, usually the work group chairs, in the Photonics21 work group meetings in Brussels and other places like the Frankfurt and the Amsterdam airports.

For Horizon 2020 and the Industrial leadership part dedicated to ICT (including photonics), the work programme for two years is determined every second year and two years in advance. For example the WP2016-2017 was discussed in 2014. This year, in 2016, the work programme for the last period of H2020 (2018-2020) is being discussed. The Photonics Unit of the EC and Photonics21 have actually been concentrating all discussions between early March (when Photonics21 had its annual meeting) and early July. Now, after the summer only details are possible to modify. Thanks to the Advocacy platform and the resources available for the travels, we had 12 representatives from Sweden in the Annual meeting on March 1-2. Afterwards, two representatives have been able to participate in the follow-up meetings of PH21-WGs 2 and 3 with visible influence on the discussions.

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PhotonicSweden members

Associated members

PhotonicSweden partners

Advocacy Platform of the Strategic Innovation Programme Electronics Components and Systems (ECS) (Smartare Elektroniksystems Påverkansplattform) – The project

Budget: 1 Mkr
Start: 2015-03-01
End: 2017-02-28
Focus: Photonics, Micro- and Nanoelectronics, Printed Electronics, Smart Systems and Embedded Systems
Activities: Analysis, workshops, participation in meetings of European organisations to determine the calls of H2020 and ECSEL.
Project leader: Pierre-Yves Fonjallaz (on a consultant basis through Acreo Swedish ICT for Smartare Elektroniksystem)

The first H2020 projects (from calls in 2014 and 2015) related to the field of photonics and involving Swedish organisations from the programmes in ICT, ECSEL and FoF:

Acronym	Tot. Funding [Euros]	Coord. Org.	Swedish Budget [Euros]	Swedish partners	Type
Information and Communication Technologies(ICT)					
ACINO	2 887 055	CREATE-NET, Italy	582 504	Acreo Swedish ICT	RIA
SAPHELY	3 228 838	UPV, Spain	370 081	APR Technologies AB	RIA
Photonics4All	997 953	Steinbeis, Ger.	115 344	PhotonicSweden	CSA
POSEIDON	4 068 781	Clivet Spa, Italy	787 031	Uppsala University	RIA
EuroPho21	2 848 991	VDI, Germany	175 906	PhotonicSweden	CSA
RespiceSME	1 109 048	Steinbeis, Ger.	138 531	PhotonicSweden	CSA
PIX4LIFE	8 557 338	Imec, Belgium	380 363	Chalmers TH	IA
Electronics Components and Systems for European Leadership (ECSEL)					
DENSE	4 221 233	Daimler	164 424	Autoliv Dvpt; Autoliv Sve.	RIA
Factory of the Future (FoF)					
ADALAM	3 764 635	Unimetrik, Ger.	117 500	AB Sandvik Coromant	RIA
MAShES	3 673 157	AIMN, Spain	284 063	Permanova Lasersystem AB	RIA
RADICLE	3 583 212	Manuf. Tech. UK	499 891	GKN Aerospace AB	RIA

PhotonicSweden is already part of three Horizon2020 projects of the type Coordination and Support Action (CSA): EuroPho21, Photonics4All and RespiceSME. After the recentt Call closing in April this year, PhotonicSweden has been invited to negotiate the Grant Agreement of a fourth CSA project entitled ÉPRISE (see more information in this newsletter).

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Kompetensnav Fotonik

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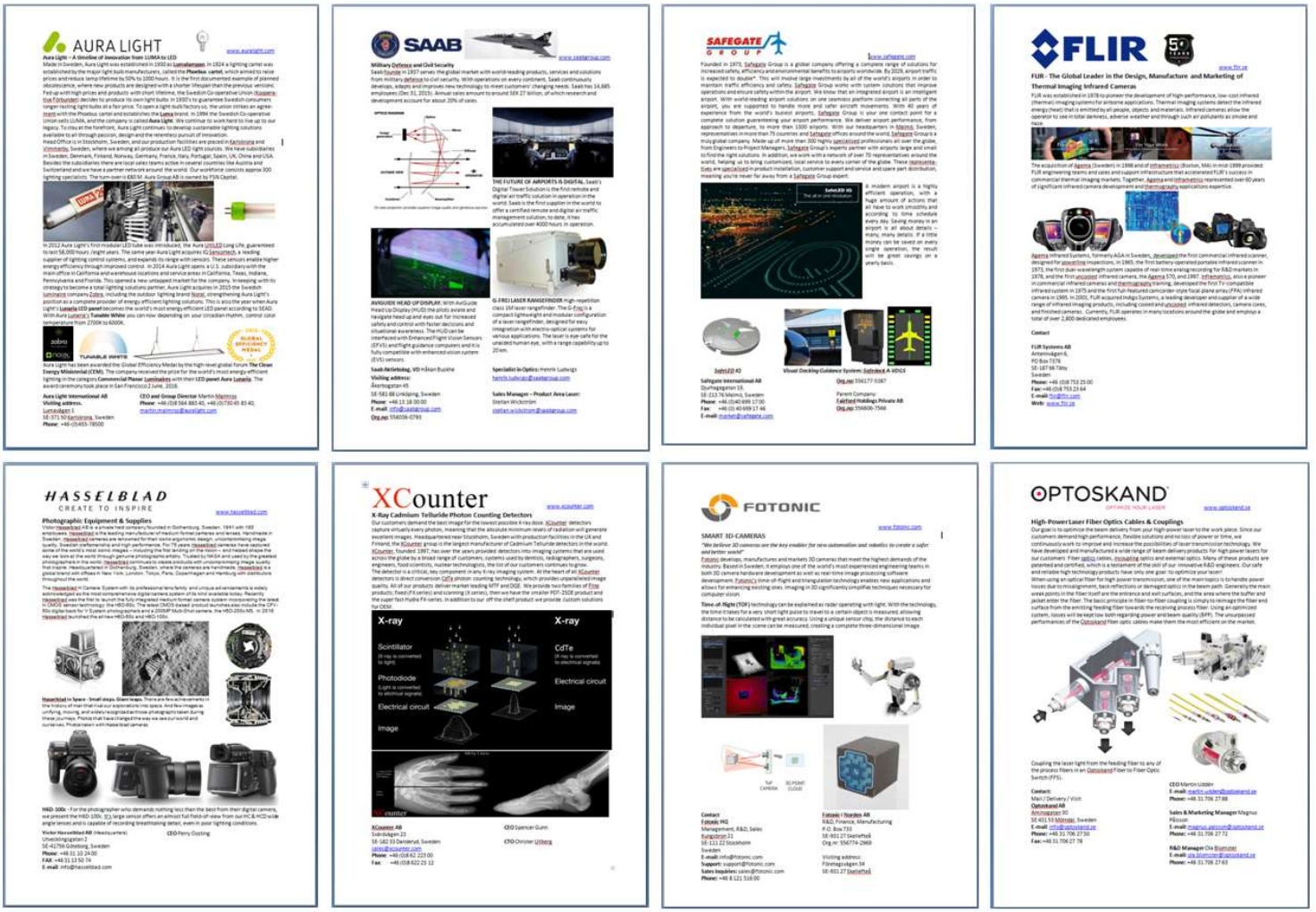
Genom projektet Kompetensnav Fotonik har möjlighet skapats att nå ut och sprida information om fotoniken och att det är en ”KET”, dvs en möjliggörare. Genom att påvisa vilka områden fotoniken har möjliggjort nya innovationer i, skapas framförallt ett nytänkande och korsbefruktning med annars inte direkt fotoniktekniska områden. Kartläggningen omfattar fotonikaktörer i Sverige och kommer finnas i en rapport där varje aktör beskrivs på en A4-sida. Exempel visas i nedanstående bild. Med ökande exponering i samband med aktiviteter inom Smartare Elektroniksystem har ett behov förelegat att fortsätta uppdatera kartläggningen av områdets aktörer. Efter dialog med Smartare Elektroniksystem har Vinnova beslutat att förlänga projektets löptid t.o.m. 2017-06-30 med ytterligare ett bidrag på 50.000kr, vilket även gäller övriga kompetensnav. Smartare Elektroniksystem genomför en Road Show där kompetensnaven presenterar sig. Senast har Västerås och Luleå besökts. Kommande besök sker den:

- 18 oktober Göteborg
- 27 oktober Linköping
- 9 november Malmö/Lund
- 6 december Sundsvall

Arrangemangen är gratis, men föranmälan krävs. Se vidare:
http://www.smartareelektroniksystem.se/kalendarium/kalendarium/



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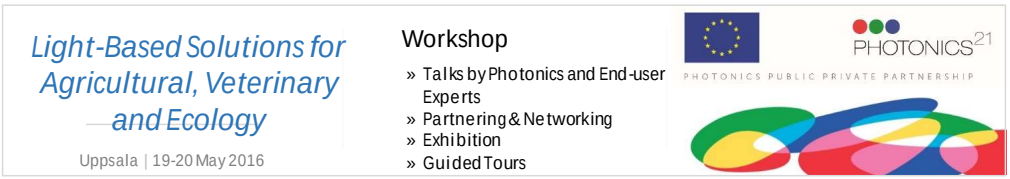
PhotonicSweden has been part of a EU project called OASIS, Open the Access to Life Science Infrastructures for SMEs, from December 2013 to May 2016 (http://www.fp7-oasis.eu). This project was of the type Coordination and Support Action, i.e. not a research project but rather an action to reinforce a certain field in Europe through coordinated activities. As the project title indicated, the project was dealing with life science and was focusing on photonics actors, mainly small- and medium-size enterprises (SMEs). OASIS was encompassing all aspects of the life sciences with the following 8 application areas: medicine, veterinary, biology, forensics, pharmaceutics, agriculture, food and cosmetics. The main activities of OASIS have been to:

⇒ Inventory SMEs and life science infrastructures in the regions or countries of the consortium.

⇒ Develop new services for photonics clusters like PhotonicSweden in order to render such clusters more powerful and able to support their members.

⇒ Stimulate the interaction between the different actors of the biophotonics field and facilitate collaborations.

Following the inventory realized during the first year of the project, PhotonicSweden, which was also leading the dissemination and exploitation work package, decided to edit brochures presenting the biophotonics in the different countries covered by the OASIS consortium. All these brochures can be viewed on the OASIS website (http://www.fp7-oasis.eu/Downloads). The services that the photonics clusters can provide to their members and SMEs in particular are described in a report that can be found on at the same location on the OASIS website (dowmloads).
To stimulate the interaction between biophotonics actors, 9 workshops have been organized by the OASIS partners. PhotonicSweden had the chance to organise the 9th and last workshop during the last month of the project duration and could therefore capitalise on the tremendous amount of efforts realised during the 30 months of the project. Following a number of very promising interactions with the National Veterinary Institute (SVA in Swedish for Statens Veterinärmedicinska Anstalt) and later with the Swedish University of Agricultural Sciences (SLU in Swedish for Sveriges Lantbruksuniversitet), we decided to organise our workshop in Uppsala, actually in the premises of SLU and focusing on photonic solutions for agriculture, ecology and veterinary. From the inventory of the Swedish biophotonics companies we have observed that a vast majority of these companies are addressing the medicine and health sectors. i.e. on the large human-oriented markets. Our motivation when organising a workshop dedicated to agricultural, ecological and veterinarian application was to open up Swedish companies to new application areas with large growth potential and with, in some cases, more relaxed regulations.



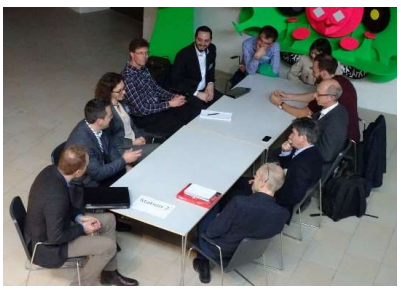
9th workshop of OASIS in Uppsala:

60 participants from 8 countries, the countries covered by the OASIS partners and Finland, roughly:
- 1/3 of "end-users", i.e. representatives from the fields of agriculture, ecology and veterinary.
- 1/3 from SMEs
- 1/3 from photonics clusters and other clusters.

Quite a few new collaborations started, several project ideas for future calls of Horizon2020 (e.g. FS-05-2017¨Robotics Advances for Precision Farming) and some product ideas.

Co-organized with the Public Private Partnership Photonics21.

All presentations available on: www.fp7-oasis.eu/Downloads



Highly appreciated match-making session

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Biophotonics in the EU and in Sweden: from OASIS to ÉPRISE

Follow-up of OASIS: ÉPRISE – Empowering Photonics through Regional Innovation Strategies in Europe
All photonics clusters and national platforms involved in OASIS, i.e. basically all partners except the two academic partners, applied for a new CSA project to continue the excellent work performed in OASIS and further strengthen the European biophotonics. The application was submitted on April 12 and was answering the Call ICT-29-2016: Photonics KET 2016. Our proposal ÉPRISE has been selected among 3 other proposals and the project will start most probably before the end of the year.

The project has two main orientations: 1) develop go-to-market services for SMEs. 2) Enrol European regions in the biophotonics field and influence their research and innovation smart specialisation strategies (RIS3) in that direction. Éprise in French means "enamoured". The new project will do its best to get regions to fall in love with biophotonics… Regions with their proximity to key players are the most powerful level "to make things happen". Both the Stockholm and the Skåne regions have already expressed their support at the level of the application. The two new partners in the ÉPRISE consortium are the centre for process innovation (CPI) in the UK and Photonics Finland. After years of informal collaboration, we warmly welcome our Nordic neighbours! ÉPRISE is like OASIS coordinated by Optitec in Marseille.

ÉPRISE will be the 6th EU project for PhotonicSweden since its foundation in 2011.
We can even help you to write proposals for also other types of EU projects. Contact us!

RespiceSME – See the light inside!

PhotonicSweden is part of a EU project called RespiceSME which started on January 1 this year and will last for two years.
The RespiceSME project aims to reinforce the innovative capacity of Europe's photonics Small and Medium Enterprises (SMEs), clusters and national platforms by stimulating targeted collaborations in and beyond photonics. RespiceSME proposes new approaches for stronger innovative effectiveness using a 3-dimensional approach:
Evaluation and stimulation of the innovation potential in order to strengthen the innovation capacity of high-tech photonics SMEs.

⇒ Enhancement of the global technological exploitation of photonics innovation capacity by analysing different value chains valuable for high-tech photonics SMEs. This will allow significant leveraging of non-photonic sectors such as Environment / Energy, Transport, and Manufacturing, thereby, enabling the penetration of new markets and/or new application areas close to markets.

⇒ Creation of a bridge over the 'Valley of Death' to increase the competitiveness of the European photonics sector by developing Best Practices for enabling photonics SMEs access to European and regional Research Technology Organisations, harnessing educational and training programmes aligned with their specific needs, determining next generation regional innovative smart specialisation strategies and providing access to public and private financial supports.

⇒ PhotonicSweden will very soon start performing the first approach, i.e. evaluating and stimulating the innovation potential of, in a first place, a few chosen Swedish photonics SMEs. Our target is at least 3 companies but if possible up to 5 companies.

The offer consists of 3 steps (all costs, except the time spent by the company's involved employees, are covered by RespiceSME):

⇒ **Evaluation:** An interview to evaluate the innovation potential of the company, i.e. determine the so-called Potential Innovation Index (PII). This will take about 2 hours. We hope to be able to perform this step in September. The answers will be processed and analysed by RespiceSME and kept confidential.

⇒ **Stimulation:** A brainstorming with representatives of the company and PhotonicSweden will be organized, based on the results of the interview, to identify possible actions which hopefully will help your company to improve its innovation potential and its business. This will take about half a day and can be performed before the end of the year.

⇒ **Strengthening:** A follow-up of the identified actions with the support of PhotonicSweden and their partners in the project from January next year.

If your company has not already received an invitation, is active in one of the targeted applications (Environment / Energy, Transport, and Manufacturing) and has good arguments why it should be chosen by PhotonicSweden, please contact as soon as possible! Thank you!

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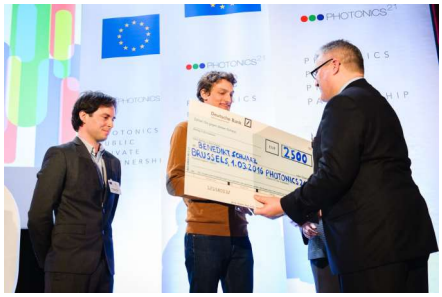
Photonics21 Student Innovation Award 2017

For the eights time the ETP Photonics21 announces the Photonics21 Student Innovation Award. The prize will be handed over in the frame of the Photonics21 Annual Meeting on the 29th of March 2017.

Background:

The Research, Education and Training work group of the Photonics21 Technology Platform has established a prize for students in the field of photonics in order to promote research in photonics especially related to R&D with industrial impact.



Any person under 35 and active in the field of optics and photonics may apply for the Photonics21 Student Innovation Award. The award consists of a certificate, a trophy as well as a cash prize of € 5,000.

Applicants must submit the following documents:

The completed application form,

- One letter of support (by a supervisor or mentor),
  A short (2 page) biography/CV
  A list of peer reviewed publications
  A description of the innovative R&D work (not exceeding 4 pages of A4, 12 point text), making clear the nature of innovation potential impact to industry

The application deadline for participating in the Photonics21 Student Innovation Award 2017 is the 30th of January 2017.

Applications should be sent via e-mail to education@photonics21.org.
You can download the prize rules.

Photonics Public Private Partnership Annual Meeting 2017

PHOTONICS PUBLIC PRIVATE PARTNERSHIP

Safe the date for the next Photonics Public Private Partnership Annual Meeting 2017 which will take place on the 28th and 29th of March 2017

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OSA elections

Ursula Gibson, adjunced professor at the Applied Physics departement at the Royal Institute of Technology (KTH) and professor at the Norwegian University of Science and Technology, Norway is **candidate for the position as Vice President at the OSA (Optical Society of America) .**

Eligible voters* may go directly to the ballot and request their login information. *Individual, Emeritus and Recent Graduate members of the OSA as of 1 September 2016 are eligible to vote.
The OSA Board of Directors present candidates for election to terms beginning in 2017. The election will be open from 27 July 2016 through 23 September 2016; results will be announced on 19 October 2016 at the OSA Annual Business Meeting in Rochester, NY, during FiO/LS 2016.

European Photonics Start-up Challenge

In the framework of the EU project Photonics4all the we organize a European Photonics Start-up Challenge

Do you have an outstanding business model with innovative applications in the field of photonics? Are you looking for promotion of your business model throughout Europe? **Apply before 19 September – use the stepping stone** for your outstanding business models, innovative technologies and service concepts. Get in contact with potential customers and investors thanks to regional and national clusters.
We want to support start-up companies and entrepreneurship in the field of photonics and therefore we offer **prizes with a total value of 10,000 Euros**.

The final will take place on 13 October 2016 at the international exhibition micro photonics in Berlin.

We would be happy to welcome you in Berlin.
Click here for further information.

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Magnus Breidne, Projektchef på IVA
Björn Broberg, Docent i fotonik, serieentreprenör
Michael Cohn, VD Nanor AB
Ulf Dahlberg, Saab Group AB
Emma Hendéus Levén, Cambridge University Press
Bengt Jervmo, FLIR Systems, Manager Platform components
Leif Ljungqvist, VD Acreo Swedish ICT
Ann-Marie Pendrill, Professor, GU
Mikael Sjödahl, Professor LTU
Peter Strömberg, Utvecklingschef Fixturlaser—Acoem AB
Gemma Vall-llosera, Ericsson AB