PhotonicSweden

The Swedish Technology Platform in Optics and Photonics

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

Nyhetsbrev/Aktivitetsrapport från PhotonicSweden

Innehåll

sida

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PhotonicSweden

The Swedish Technology Platform in Optics and Photonics

PhotonicSweden members

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PHOTON IS OUR BUSINESS
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SPECTROGON

Ett nytt optik/fotonik år har börjat …

Det sista ljuset från förra året har redan falnat. Men 2018 blev ett bra optik/fotonik år. Inte minst tack vare ytterligare ett Nobelpris tillägnat vårt område. Nobelpriset i fysik delades 2018 mellan Arthur Ashkin å ena sidan och Gérard Mourou och Donna Strickland å den andra. Arthur Ashkin uppfann den optiska pincetten vars ljusstrålefingrar griper tag i partiklar, atomer, molekyler, och till och med bakterier och andra levande celler. Gérard Mourou och Donna Strickland banade väg för de kortaste och mest intensiva laserpulser människan skapat.

PhotonicSweden arrangerade *Northern Optics & Photonics 2018* i Lund 12-14 september. Där vi lyckades samla en stor del av det bästa Norden har inom optik/fotonik – både företag och akademi. Genom att utse Excillum AB till årets fotonik företag 2018 vill PhotonicSweden sprida ljus över hur innovation inom fotonik erövrar nya områden – i detta fall smarta tillämpningar för korta våglängder.
Slutsatsen från detta evenemang är att vi lyckats etablera *Northern Optics & Photonics* som den viktigaste nordiska optik/fotonik-konferensen på samma sätt som Optik & Fotonik i Sverige dominerar den svenska scenen.

De begynnande ljuset lyser nu över 2019 där PhotonicSweden inleder året med en delvis ny besättning. Pierre-Yves Fonjallaz har sedan en längre tid blickat mot sitt fädernesland och har nu återvänt till Schweiz och EPFL i Lausanne. Jag och övriga i styrelsen är djupt tacksamma för Pierre-Yves' mångåriga och helt avgörande insatser för PhotonicSweden. Han har varit en mycket viktig länk till fotoniken i Europa och också envist arbetat med att bygga upp kanaler till svenska myndigheter i avsikt att skapa en stabilare finansiering till PhotonicSweden. Ett stort TACK Pierre-Yves !!
Pierre-Yves kommer att ersättas av Staffan Tjörnhammar med bakgrund i laserfysik på KTH. Med ett starkt politiskt engagemang tror jag att Staffan kan bli ett viktigt tillskott för att bland annat etablera PhotonicSweden mot strategiska beslutsfattare både inom politik och näringsliv.

Kontinuiteten i arbetet försäkras av att vi fortfarande har Petra Bindig och Lennart Svensson som erfarna och mycket kompetenta medarbetare.

Framtiden är ljus

God Fortsättning

Magnus

God Fortsättning!

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Tack för förstärkning av industristöd inom fotonik

PhotonicSweden members

Förstärkning av Industristöd inom fotonik i Europeiska kommissionens framtida fleråriga budgetram (MFF) 2021-2027

Tack till alla som stödje PhotonicSweden i upproppet om behålla Fotonik som ett eget områd i nya ramprogram Horizon Europe. Vi fick mer än 90 mejl från våra medlemmar som stöd! PhotonicSweden kommer att uppfölja upproppet med departamenten.

PhotonicSweden informerade att vi skickade följande uppmaning till Europeiska Kommissionen, medlemmar i Europeiska parlament och till svensk utbildnings departament samt näringsdepartament för att be om stöd för att om möjligt modifierar nästa ramprogram som publicerades den 7 juni 2018.
Den förslagna strukturen på ramprogramet skiljer sig mot den för tidigare ramprogram på sätt som är negativa för svensk forskning inom tillämpad vetenskap och för svenska hightechbolag.

Vår huvudsakliga oro avser:

1. Horizon Europes struktur i tre nya pelare vilket minskar betydelsen av samarbetsforskning relaterad till industriella applikationer och till tillverkning av hårdvaruprodukter i Europa.

2. De 6 möjliggörande teknikerna (KET=Key Enabling Technologies) som 2009 valdes av Europeiska Kommissionen, som främst är relaterade till hårdvara, verkar ifrågasättas och deras betydelse samt nyckelroll verkar tydligt minskas i det nya förslaget.

Att lägga till två nya KETs, ”Artificial Intelligence” och ”Digital Security and Connectivity” är säkert ett bra förslag, men vi ser en risk för minskat fokus på europeisk hårdvara. Detta är ännu mer sant om fyra av de inledande KET:sen. Dessa är i själva verket de som är mest relaterade till hårdvara och borde omgrupperas 2 och 2.

En integration av ”Fotonik” med ”Mikro- & Nanoelektronik” via en ECSEL-liknande modell i Horizon Europe kan innebära ett slut på den Europeiska Fotonikens framgångssaga och kommer att förstöra många års ansträngningar från fotoniksamhället och Photonics PPP**** att göra fotonikens område mer synligt, vilket verkligen har bidragit till en acceleration av fotonikområdets tillväxt.

Associated members

PhotonicSweden partners

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Initiativet att behålla fotonik som ett eget områd I nya ramprogram Horizon Europe

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3. I förslaget till Horizon Europe figurerar Fotoniken först på den tredje delnivån (som en del av "Digital Technologies", som i sin tur är en del av "3. Digital and Industry" hos andra pelaren). Om kombinationen av ”Fotonik” och ”Mikro- & Nanoelektronik” inte kan undvikas, vill vi att ”Fotonik” åtminstone lyfts till den andra delnivån i listan över ämnen som beskriver "Digital Technologies".

4. Photonics21 och Photonics PPP har varit extremt användbara och framgångsrika och vi hoppas verkligen att deras existens inte kommer att ifrågasättas av Horizon Europes struktur och organisation.

I denna samanhang stödjar PhotonicSweden även Photonics21 och Photonics PPP. PS delttog på Board of Stakeholders möte den 19/11 i Bryssel.
Den stora frågan diskuterades vad som händer med Photonics21 och Photonics PPP vid EU beslutet. EU vill minska antalet PPPer och existensen som PPP är hotad.

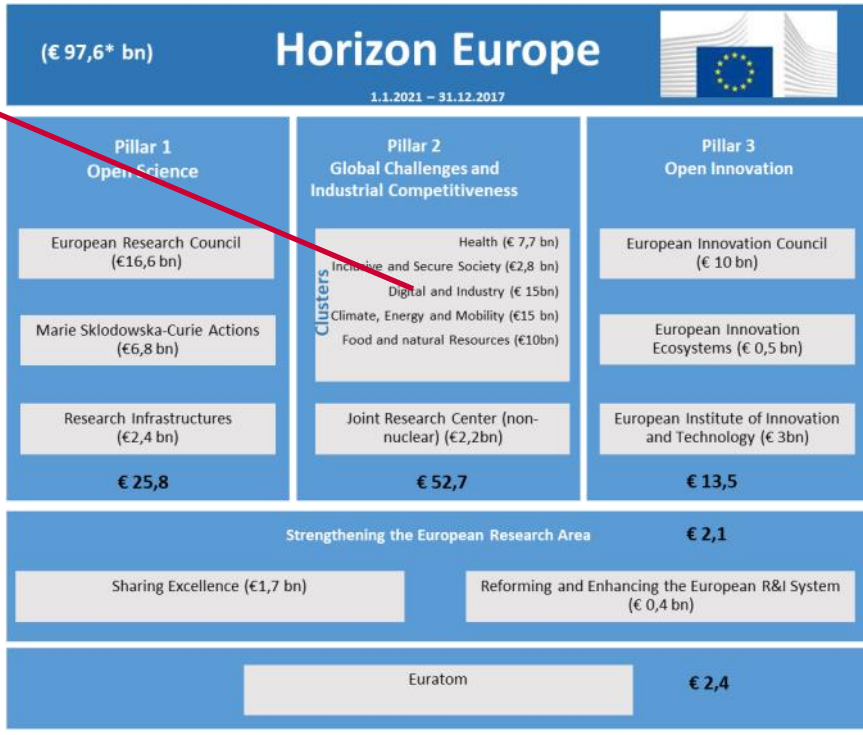
PhotonicSweden jobbar vidare med att försöka påverka politiker på högsta nivå här i Sverige på närings– och utbildningsdepartementen.

Request
Photonics - 10th area of intervention in the Cluster Digital and Industry

3.2.2. Key Digital Technologies,

… digital technologies such as micro- and nano-electronics, photonics, software and systems, and their integration as well as advanced materials …

3.2.3. Advanced Materials
3.2.4. Artificial Intelligence and Robotics
3.2.5. Next Generation Internet
3.2.6. Advanced Computing and Big Data
3.2.7. Circular Industries
3.2.8. Low-Carbon and Clean Industries
3.2.9. Space
3.2.10 Photonics



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Photonics4 recycling waste material and metal processing

Photonics 4
Recycling Waste Material & Metal Processing
Skellefteå | 3-4 April 2019

Innovation Symposium
- Talks by Photonics Experts and End-users
- Partnering & Networking
- Exhibition
- Matchmaking

PHOTONICS21
PHOTONICS PUBLIC PRIVATE PARTNERSHIP

The aim of the workshop is to gather actors in photonics together with actors in recycling and handling of metallic material.

Save the Date

Rönnskärsverken in Skelleftehamn, Skellefteå municipality is Sweden's sole smelter for the production of base metals, and is working on recycling of electronic scrap.
The main products are copper, zinc clones, lead and precious metals with sulfuric acid as a by-product. Rönnskär also produces metals from electronic scap and othe secondary materials. The smelting plant produced 190,000 tonnes of copper in 2010.
In 2010, and expansion of approximately SEK 1,3 billion was made by Rönnskärsverken, which made the smelter world-leading in the recycling of electronic waste with a capacity of 120,000 tonnes of electronic scap per year.

Establishment of battery factory in Skellefteå

In total, the investment is expected to cost over SEK 40 billion and provide up to 2,500 direct jobs.

"Our mission is to build the greenest battery in the world with a minimal carbon footprint and the highest ambitions for recycling to enable the European transition."

Optronic AB in Skellefteå is focused on series production on manufacturing products containing electronics or optical measurement technology. We specialize in the production of small and medium-sized series for industrial customers. Our facilities comprise approximately 3,000 square meters of manufacturing equipment adapted to the most demanding industrial segments. Some of the industries we have experience include automation, logistics, medical technology, security, traffic solutions and the agricultural sector

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Photonics 4
Recycling Waste Material & Metal Processing
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Innovation Symposium
- Talks by Photonics Experts and End-users
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Preliminary agenda:

Day 1: Wednesday 2019-04-03
09:20 Arrival Skellefteå by SAS from Arlanda
10:30 Study visit at Optronic AB
12:00 Lunch at Optronic AB
12:30 Bus to visit Northvolt construction site
13:30 Study visit at Rönnskärsverken
17:00 Bus back to Skellefteå
19:30 Dinner in Skellefteå

Day 2: Thursday 2019-04-04
09:30 Workshop Part-1 in Skellefteå
12:00 Lunch
13:00 Workshop Part-2 in Skellefteå
17:30 End of Workshop
18:00 Transport to SFT
19:25 SAS Departure to Arlanda

More information: http://photonicsweden.org/workshop-photonics4-recycling-waste-material-metal-processing-2/

PhotonicSweden
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In cooperation with and sponsored by:

OPTRONIC
PHOTONICS21
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Organised by:

Supported by:

Pi!A
Process Industrial IT and Automation

LULEÅ TEKNISKA UNIVERSITET

Photonics Finland

ADOPTICUM

Photonics For Advanced Manufacturing
By PIMAP Partnership

SWERIM

TRIPLE steelix

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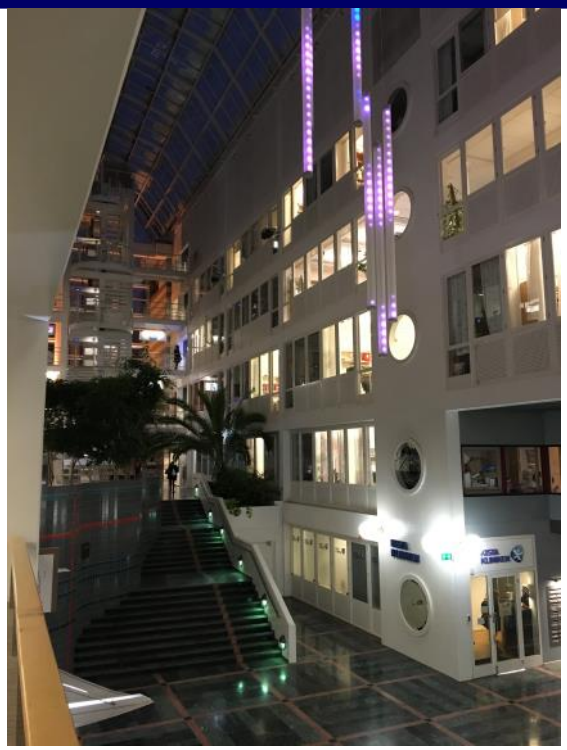

This year's Optics & Photonics conference takes place on 16+17 October in Kista, Stockholm

General Chairs is: prof. Mattias Hammar

Topics for the academic sessions (but not limited to):

- Photonics in Life Sciences
- Photonics for Communication
- Photonics in Manufacturing
- Photonics in Environmental Technology
- Optics and Spectroscopy
- Photonic components and Integrated Optics
- Advanced Photonic Materials

Topics for the industrial sessions (but not limited to):

- Photonics in Transportation
- Photonics in Advanced Manufacturing and Applications
- Photonics in Life Quality
- Photonics in Energy and Environment
- Remote and Laser Sensing
- Optical Systems and Applications
- Vision Systems
- Components and Systems for Telecommunication
- Optical Metrology
- LiFi-Light Fidelity

Save the Date

Important dates and deadlines:

Publication of the Programme: 15 June 2019
Registration / Author registration: opens 18 May 2019 closes 8 October 2019

Call for abstracts for the poster session:
Send all submissions in an electronic form in Microsoft Word format or Adobe PDF format
Please provide your name, affiliation, telephone number and Email address on all submissions as well.
You can submit your abstracts by sending them to this email address: petra@photonicsweden.org

For questions and further information please contact Petra Bindig at petra@photonicsweden.org
For questions regarding exhibition contact Lennart Svensson at lennart@photonicsweden.org

And visit: http://photonicsweden.org/3654-2/

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Next Nordic Workgroup Meeting

Next Nordic Workgroup Meeting No.6 2019-03-27, Brussels, Belgium
Wednesday March 2018-03-27 at preliminary 10:00-16:00 in Brussels, Belgium
Nordic House, Rue du Luxembourg 3, Brussels, https://goo.gl/maps/EQPvuYYRh632

The next Photonics Public Private Partnership Annual Meeting will be held on 27th and 28th March 2019 in Brussels. The event will focus on our further way towards the new European Framework Programme Horizon Europe and will present the new European photonics roadmap to the European Commission. A high-level symposium and networking reception on 27th March 2019 will take place in the Royal Museum of Fine Arts. The second event day will focus on the Photonics21 workshop sessions, which will start the photonics R&I priority setting process for the first photonics calls under Horizon Europe.

A joint Nordic Workgroup Meeting will be arranged before Photonic21 workshop sessions.
Preliminay Agenda

- Presentation of participants (short pitch talks)
- Baltic Photonics Activities
- Danish Photonics Activities
- Finnish Photonics Activities
- Norwegian Photonics Activities
- Swedish Photonics Activities
- List who are representing the Ph21 Workgroups on 27th March
- Discuss the photonics R&I priority setting process for the first photonics calls under Horizon Europe
- How can we strengthen photonics in our Nordic countries through Workgroups
- Discuss Nordic collaboration in future calls
- Discuss Nordic B2B (business-2-business) possibilities

Save the Date

Within the Nordic Workgroup, we arrange the workgroups the same way as the European Technology Platform Photonics21 www.photonics21.org/about-us/structure/workgroups/ .
The Workgroups are:

WG1: Information and Communication (ICT)
WG2: Industrial manufacturing and Quality
WG3: Life Sciences and Health
WG4: Emerging Lighting, Electronics and Displays
WG5: Security, Metrology and Sensors
WG6: Design and Manufacturing of Components and Systems
WG7: Photonics Research, Education and Training

We strongly encourage the Nordic Photonics Community to take this opportunity to strengthen your network.
Welcome ! Lennart BM Svensson & Juha Purmonen& Niklas Saxén

Some of the attendees at the Nordic Workgroup Meeting in Lund in September 2018

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PHOTONICS21

PHOTONICS PUBLIC PRIVATE PARTNERSHIP

Photonics21 Annual Meeting

Register now #next.photonics_forum "Winning Europe's future – Europe's age of light" and select the topics of the first photonics call under Horizon Europe!

Save the Date

The #next.photonics_forum will be held on 27th and 28th March 2019 in the Museum of Fine Arts/ Musées Royaux des Beaux Arts and the Square Conference Centre in Brussels.

Save the date for the next Photonics Public Private Partnership Annual Meeting which will be held on 27th and 28th March 2019 in Brussels.

The event will focus on our further way towards the new European Framework Programme Horizon Europe and will present the new European photonics roadmap to the European Commission.

A high-level symposium and networking reception on 27th March 2019 will take place in the Royal Museum of Fine Arts. The second event day will focus on the Photonics21 workshop sessions, which will start the photonics R&I priority setting process for the first photonics calls under Horizon Europe.

Online Registration
Benefit of the early bird rate and register now via the www.photonics21-registration.de

Event Locations
The symposium and networking dinner on 27th March 2019 will be held in the Museum of Fine Arts:

Musées Royaux des Beaux-Arts, Rue de la Régence 3, 1000 Brussels

The workshops sessions on 28th March 2018 will be held in the conference centre Square Brussels:

SQUARE-BRUSSELS MEETING CENTRE Mont des Arts - Kunstberg 1000 Brussels Belgium

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PHOTONICS21

PROTOTYPE YOUR IDEA CONTEST

Prototype Your Idea is a competition for business ideas at an early stage. It can be a simple thought, an idea you cannot get out of your head or an idea that you have been working with for a while.

Photonics21 aims to support talented makers and students, who have a real interest in becoming entrepreneurs by combining creativity with photonics.

The contest consists of a cash prize of €5,000 and the opportunity to get a spot in the ACTPHAST EU innovation incubator to carry out a full feasibility testing of your idea, which is worth up to €30,000, giving you access to Europe's top photonics experts and infrastructure including a start-up business coach.

To participate, you will need to send in a maximum two minute video presentation of your concept, or a written description of your idea/product making clear the nature of innovation and the potential impact to industry. This will be reviewed by a jury of experts.
For more information on the contest and to download the application form visit https://www.photonics21.org/contest-2019/prototype-your-idea-contest.php

Any person active in the field of optics and photonics, may apply for the "#next_photonics. Prototype Your Idea Contest". Photonics21 established a dedicated Innovation Challenge to push for more entrepreneurship in photonics.

It addresses PhD students, master students and makers alike who have an idea for a photonics product that can transform into a real business. Download also the contest announcement for more information.

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Northern Optics and Photonics2018
12-14 September 2018 in Lund, Sweden

The Nordic Optics and Photonics conferences bring together scientists from the Nordic and Baltic countries. The previous meetings were held in Uppsala (2000), Espoo (2003), Bergen (2006), Vilnius (2009), and Helsingør (2012), and Imatra/Lappeenranta region (2015). Northern Optics & Photonics 2018 (NOP 2018) was arranged on 12-14 September 2018 in Lund, Sweden.

The conference was organized by PhotonicSweden and the Swedish Optical Society, in conjunction with the Lund University and Lund Laser Centre. There were two parallel sessions; one devoted to presentations from academia and one to industry presentations, having its own program committees in charge of choosing the topics and speakers for the conference. Also a poster session provided additional opportunities displaying the most recent developments and achievements within photonics. An exhibition and a session with company presentations were held in parallel to the technical sessions providing industry, institutes and associations, an opportunity to display their products and services and bridge the gap between science and industry. Matchmaking was arranged between companies and job-seekers at the conference, which seems to be more popular among the exhibiting companies and attending students.

General chair for the conference was prof. Joakim Bood at Lund University, and organizers from PhotonicSweden were Petra Bindig and Lennart BM Svensson.

Summary of NOP-2018 12-14 Sep.-2018		Total	Sweden	Norway	Finland	Latvia	Lithuania	Germany	Denmark	UK	France	China	Estonia	Brazil	Burkina Faso	India
Participants:	44%	83	67	3	3	2		1	1	2		2			1	1
Speakers:	33%	62	32	7	8	5	4		3	1			1	1		
Exhibitors-participants:	23%	43	25	5	2		2	5	1	1	2					
Total:	100%	188	124	15	13	7	6	6	5	4	2	2	1	1	1	1
			66%	8%	7%	4%	3%	3%	3%	2%	1%	1%	1%	1%	1%	1%
Posters:		34	20		2	3	5					1		2		1
Exhibiting companies:		30	18	2	2		2	3	1	1	1					

The NOP-2018 conference was attended by 188 participants, including speakers and exhibitors. The table shows from which country the attendees came from. 66% of the attendees came from Sweden and 33% from abroad. 34 posters were presented and 59% came from Sweden and 41% from abroad. 30 companies exhibited at the conference, with 60% from Sweden and 40% from abroad.

Three keynote speakers were invited; prof. emeritus Sune Svansberg from Lund Univesity, Sweden, Algis Petras Piskarskas from Vilnius University, Lithuania, and prof. Jesper Glückstad from Technical University of Denmark (DTU).

Northern Optics & Photonics 2018 in Lund

NOP-2018 – a three day conference in Lund, Sweden, with dinner at Restaurant Tegnérs Matsalar.

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Visit tour to MAX IV and the Lund Laser Centre

After the closing remarks of the conference on Friday 14th, labtours were arranged to MAX IV and the Lund Laser Centre. Many of the conference attendees stayed the afternoon to go on the visit tours.

With the MAX IV facility, Sweden will have the highest quality of X-rays available to scientists from academia and industry in the whole world. These X-rays will be used to understand, explain and improve the world around us. They will enable the study of materials that we use today and improve them beyond the performance that we know. In addition, MAX IV will allow scientists to develop new materials and products that we cannot even imagine today, such as medications with better and more precise functions and fewer side-effects, nano-particles for diverse areas of application, including paints, catalysis or computing, or lighter and stronger packaging materials for the future. Here, experiments at some selected beamlines were presented for the visitors.

The Lund Laser Centre (LLC) is an organization for interdisciplinary research and collaboration in the fields of optics, spectroscopy and lasers at the Lund University. At the LLC a broad range of activities are pursued within several different research divisions and groups at the engineering, sciences and medical faculties, and at the MAX IV Laboratory. Here several laboratories at the Division of Atomic Physics and the Division of Physics will be open, exposing activities ranging from basic research in attosecond physics science to applied laser diagnostics in optical engines.

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Exjobbspris 2019

PhotonicSweden members

Vinnaren är:

1st prize:
Hugo Laurell

For his Master of Science Thesis
"Time-Frequency Analysis of THz Time-Domain spectroscopy data"
performed at Uppsala University, NTNU

Från vänster: Mikael Sjödahl, Luleå universitet, Hugo Laurell, Uppsala universitet

2nd prize:
Marcus Bengths
for his Master of Science Thesis
"Design of nanowire-based vertical-cavity surface-emitting lasers"
performed at Chalmers University of Technology

Från vänster: Mikael Sjödahl, Luleå universitet, Marcus Bengths, Chalmers tekniska högskola

Ordförande för exjobbskommitén, Mikael Sjödahl, överlämnade priset och gratulerade på konferensen Northern Optics & Photonics in Lund.

<u>Priser är sponsrad av:</u>

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Best optics & photonics company 2018

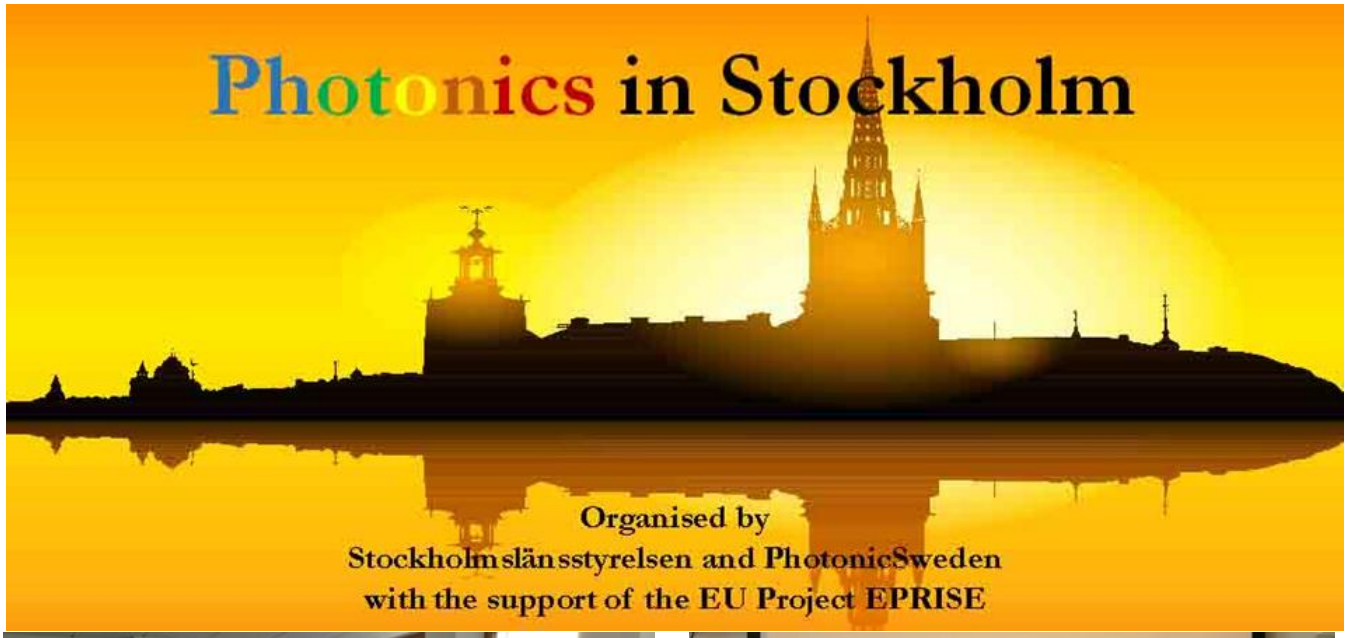
Excillum AB, is the inventor of the world's brightest microfocus X-ray tube. After years of painstaking research and development, Excillum AB has turned an innovative source technology into a product range of stable and reliable X -ray sources. The company's product portfolio, initially small, has developed and expanded over time with higher acceleration voltages and further improved power-loading capabilities. PhotonicSweden by giving this years' *Best optics and photonics company of the year* to Excillum AB would like to recognize the importance of combining deep knowledge in basic science with highly innovative technology.

Excillum is based in Kista, still a growing company, and with plentiful of highly competent people. Based on the MetalJet microfocus X-ray source technology the company has developed products that can generate more than 10 times the X-ray brightness of a conventional solid anode X-ray source.

Furthermore, by choosing Excillum AB as the ***photonics company of the year 2018*** PhotonicSweden wishes to shine light on how innovation within photonics is going into new vistas – smarter applications at shorter wave-lengths.

Prizes awards from left: Peter Strömberg, Björn Hansson

Möte med Länsstyrelsen i Stockholm 2018-04-11 och 2018-11-30



Inom EU-projektet ÈPRISE anordnade PhotonicSweden ett möte ihop med Länsstyrelsen i Stockholm 2018-04-11 med inbjudna företagsrepresentanter, organisationer och akademi för att diskutera ”Photonics in Stockholm” för att föra fram den unika fotonikkompetens som finns i Stockholms regionen. Maria Lindgren från Länsstyrelsen tog emot synpunkter från deltagana om vilka företag och kompetenser som finns i regionenoch samt hur viktiga de är att även i framtiden kunna kompetensförsörja.

Workshop arrangerad 2018-11-30 på KTH av Länsstyrelsen i Stockholm

2018-11-30 hölls ytterligare en workshop benämnd ”Smart industri och teknik” i syfte att ta fram underlag till en forsknings- och innovationsstrategi för blivande Region Stockholm. Frågeställningar som skulle diskuteras var bla ”Inom vilka områden har vi i Stockholm potential att bli världsledande?” och ”Vi skall stärka det vi kan bli bäst på – för att stärka framtida konkurrenskraft”.

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Workshopen hade ett 30-tal deltagare som fann intresse av att vara med och bidra samt påverka regionens framtida inriktningar. Från PhotonicSweden deltog fyra representanter, varav Ulf Dahlberg och Björn Broberg från PS-styrelse, samt Lennart BM Svensson och Staffan Tjörnhammar från PS-Office.

Inom Region Stockholm kan ett prioriterat utvecklingsområde vara ”En viss teknologi”, En del av en sektor” och ”Lösningar inom en samhällsutmaning”. Arbetsgrupperna fick till uppgift att leverera ett antal beskrivna utvecklingsområden som hela gruppen tyckte var prioriterade. Dessa skrevs upp på post-it lappar som anslogs och diskuterades.

I diskussionen framkom tre viktiga områden för Stockholmsregionen att satsa på såsom: ” Grundläggande teknik baserat på Fotonik som är en KET (Key Enabling Technology) och Nanomaterial”, ”Den uppkopplade regionen (5G och dess tillämpningar) samt ”Avancerad produktionsteknik”. Alla dessa områden är dessutom starkt beroende av varandra. Det trycktes också extra på att det är viktigt att framhålla att det är den nämnda teknikutveckling som skapar förutsättningarna för de olika tillämpningsområdena att växa.
En annan viktig frågeställning som diskuterades var ”Begreppsbildning – Hur får vi politiker att förstå”.

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How can we strengthen photonics in our Nordic countries through Workgroups

Nordic workgroup meeting was held on Friday 14th September during NOP-2018 in Lund, and was participated by photonics organisation representatives from Sweden, Finland, Norway, Denmark and the Balticum. The meeting was organized by Lennart BM Svensson, PhotonicSweden, Juha Purmonen, Photonics Finland, and Niklas Saxén, Photonics Finland/Edmund Optics. This was a great oportunity to bring all Nordic photonics clusters together, for discussions about collaborations and networking.
This was the 5th time a Nordic Workgroup Meeting was organized. The first meeting was organized by PhotonicSweden together with Photonics Finland on May 28th, 2017 in Oulu, Finland, which was participated by almost 50 attendees. The Nordic Workgroup Meetings have been held:

2017-05-28 Nordic Workgroup Meeting No.1 in Oulu, Finland. Arranged the day before OPD2017.
2017-10-17 Nordic Workgroup Meeting No.2 in Stockholm, Sweden. Arranged the day before OPS-2017.
2018-03-08 Nordic Workgroup Meeting No.3 in Brussels, Belgium. Arranged the day before Photonics21 Annual Meeting.
2018-05-27 Nordic Workgroup Meeting No.4 in Jyväskylä, Finland. The day before OPD2018 together with EU-project WG-meeting PIMAP (Photonics For Advanced Manufacturing).
2018-09-14 Nordic Workgroup Meeting No.5 in Lund, Sweden. PhotonicSweden, Photonics Finland, Baltic Photonics Cluster, Danish Optical Society, and Norwegian Photonics.

Since the Nordic countries are small compared to the rest of the European countries, the aim is to find out a way to collaborate within photonics, for e.g. EU-research applications. But another reason is also to facilitate business opportunities, since within the photonics area there are many leading companies in the Nordic region searching for markets in EU, USA and Asia.


Håkan Sehlin and Iris Öhrn.

Special invited speakers Iris Öhrn and Håkan Selin presented funding opportunities dor SME's.
"Investment Promotion in Sweden", Iris Öhrn, Investment Advisor- Life Science
Business Region Göteborg
"SME Development with the internationalization and commercialization of innovations", Håkan Sehlin, Business Development Manager at Invest in Skåne

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From left: Jussi Tenhunen, Christopher Dirdal, Ott Rebane, and Niklas Saxén.

From left: Asger Jensen, Åsa Claesson, Juha Purmonen, and Lennart BM Svensson.

Photonics activities in the Nordic countries were presented during the meeting and discussed.

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"Photonic activities at VTT and its of spin-off companies", Jussi Tenhunen, Senior Scientist VTT - Technical Research Centre of Finland

"Photonic activities at SINTEF and its spin-off companies", Christopher Dirdal, Research Scientist, SINTEF Norway

"Photonic activities at RISE and its spin-off companies", Åsa Claesson, Department Manager, RISE-Research Institute of Sweden

"Photonic activities at the Baltic Photonics Cluster (BPC)", Ott Rebane, Chairman of BPC, Estonia, Janis Spigulis, Prof. Univ. of Latvia

"Photonic activities at the Danisch Optial Society (DOPS)", Asger Jensen, DOPS / NKT Photonics

"Activities and collaboration with Photonics Finland", Juha Purmonen, Photonics Finland

"Activities and collaboration with PhotonicSweden", Lennart BM Svensson, PhotonicSweden

"Round table discussion – How can we collaborate in the Nordic and Baltic countries", Niklas Saxén, Photonics Finland / Edmund Optics.

Q1: What type of cooperation do we like to do?
Q2: What result would you like to see?
Q3: What type of platform do we need?
Q4: How can we utilize our resources together to grow?
Q5: How can we increase R&D funding?

The discussions were very fruitful. Sweden, Finland and Balticum has photonics clusters, with both academia and industry as members. In Denmark there is the Danish Optical Society (DOPS), but no photonics cluster with active workgroups. However, Denmark has well established photonics companies and academia. In Norway there are several companies in photonics and there is a large research organization SINTEF with many photonics projects, but there is no photonics cluster. In Norway they organize every second year the "Norska Optikk Dagarna". PhotonicSweden and Photonics Finland offered support to the Norwegian attendees if there is an interest in setting up a Photonics Norway cluster.

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Genomförda Optopubar 2018

Optopubar har under 2018 genomförts i både Stockholm (6st) , Göteborg (2st) och Lund (1st). Optobubarna är populära och drar mellan 25-60 deltagare per gång. Speciellt populära är Optopubar som hålls på företag. Ansvarig för samordning av Optopubar är SOS, ADOPT och PhotonicSweden. Optopubarna har i Stockholm sponsrats av ADOPT på KTH, samt med övriga inblandade företag. Under 2018 hölls:

2018-01-18 Optopub på KTH-AlbaNova, Stockholm. Seminarie hölls om "Generation, manipulation and detection of single photons at the nano scale" av prof Val Zwiller.

2018-01-18 Optopub på Göteborgs Nya Bryggeri i Västra Frölunda. Nanor AB tillsammans med Physik Instrumente (PI) GmbH höll seminarium om bla problemlösningar för att hålla linser och speglar i fast position trots bakgrundsvibrationer.

2018-02-22 Optopub hos Trimble AB i Danderyd, Stockholm. Presentation om Trimble och det senaste lanserade optiska instrumentet – en totalstation och skanner, samt förevisning om produktionsanläggningen för kalibrering och test.

2018-03-15 Optopub på AF-Borgen i Lund. Seminarier om "Biophotonics@Tyndall-being estblished as a new team at Tyndall National Institute in Ireland" med Stefan Andersson Engels, samt "Optics in Automotive – Making your car smart" med Lars Rymell och Olov von Hofsten, Eclipse Optics AB.

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2018-03-22 Optopub hos Vetenskapens Hus på KTH-AlbaNova i Stockholm. Presentation av Jonas Tidström om de aktiviteter som bedrivs samt rundvandring i Lasergrottan.

2018-05-16 Optopub på Electrum i Kista, Stockholm. Celebration of International Day of Light. Seminarier om "Fluorescence based optical nanoscopy: how to crumble the diffraction barrier" med ass.prof. IlariaTesta, SciLifeLab, samt "Photon disinfection - Innovative and chemical-free solutions based on LED light" med Oscar Hägglund, LED Tailor Sweden AB.

2018-05-30 Optopub hos Coherent (Optoskand) i Mölndal. Presentationer om Coherent, högeffektsfiberkablage, laserlab och renrum.

2018-10-25 Optopub på KTH-AlbaNova, Stockholm. Seminarie om "Lasers have done it again! Nobel Prize in physics 2018" presenterat av prof. Valdas Pasiskevicius.

2018-12-06 Optopub på Electrum i Kista, Stockholm. Seminarie om "Manipulate thermal radiation using nanostructures" med Docent Max Yan, samt "Photonics projects at RISE Research Institutes of Sweden" med Stefan Källberg, RISE.

Planerade Optopubar 2019

2019-01-31 Optopub hos Energimyndigheten i Stockholm. Seminarie om "Regular, smart and LiFi Lighting at the Swedish Energy Agency" med Dr.Christofer Silfvenius, "Policies for energy efficient lighting" med Dr.Peter Bennich, samt rundvandring SEA-testlab.

2019-02-28 Optopub på Electrum i Kista, Stockholm. Seminarium om "Strenghten the collaboration for innovation between Latvia and Sweden" med Andris Anspoks, samt "CeramOptec - Innovative fiber Optics - Every Step of the Way" med Andrey Grishchenko.

2019-04-11 Optopub planeras i Göteborg, men är fortfarande på planeringsstadiet. Reservera gärna kvällen för detta. Mer info kommer.

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Inspirationsdagar och Kompetensnav med Smartare Elektroniksystem

PhotonicSweden är del i Smartare Elektroniksystem
www.smartareelektroniksystem.se
som ingår i Vinnovas Strategiska Innovations Program (SIP).

Deltagarre på i*nnovationsdag i Göteborg 2a oktober-2018*

Deltagare på innovationsdag Örnsköldsvik 20e februari-2018

Smartare Elektroniksystem arrangerar som del i denna Vinnova-satsning flera sk Innovationsdagar per år där Kompetensnaven inom denna SIP reser runt och presenterar våra spetsområden. Under 2018 hölls Innovationsdagar på fyra orter, vilka var i Örnsköldsvik 2018-02-20, i Karlskoga 2018-04-17, i Göteborg 2018-10-02 och i Lund 2018-11-20. Innovationsdagarna är kostnadsfria och ger stor uppmärksamhet för spetsområdena och de utlysningar som är möjliga att söka 2ggr per år inom programmet.

Inspirationsdag i Mälardalen 25 april-2019

Den 25 april arrangerar Smartare Elektroniksystem en nästa inspirationsdag i Mälardalen, tillsammans med branschorganisationerna Svensk Elektronik och PhotonicSweden. Välkommen till en branschdag som visar vägen till svenska spetsområden inom elektronik. Här får du tillfälle att träffa experter, kollegor och knyta nya affärskontakter. Du får också veta mer om Smartare Elektroniksystem som är ett strategiskt innovationsprogram för att öka konkurrenskraft och tillväxt i svensk industri. Detta är ett arrangemang som ingår i vår landsomfattande turné med att visa på möjligheterna till smartare lösningar med hjälp smart elektronik.
https://www.smartareelektroniksystem.se/event/inspirationsdag-i-malardalen/

Utlysningar

Det strategiska innovationsprogrammet Smartare Elektroniksystem genomför årligen två utlysningar. En större för forsknings- och innovationsprojekt och en mindre för genomförbarhetsstudier. Utlysning för genomförbarhetsstudier stänger i slutet av augusti/början av september. Utlysning för Forsknings och innovationsprojekt stänger i början av mars. Besked i utlysning för genomförbarhetsstudier ska lämnas så att projekten kan starta senast 1 november. Avsikten är att de som önskar ska kunna sluftöra en genomförbarhetsstudie och baserat på dessa resultat ansöka om fortsättning i nästkommande utlysning för FoI-projekt.

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Smartare Elektroniksystem
ELECTRONIC COMPONENTS & SYSTEMS

Beviljade projekt 2018

Utlysningen Forsknings- och innovationsprojekt som stängde den 8 mars 2018 gav följande utfall:
20 projekt beviljas sammanlagt 57,5 miljoner kronor i bidrag. Dessa projekt har totalt budgetar på 95,2 miljoner kronor. Till ansökningsomgången kom in 47 projektansökningar som tillsammans sökte 131.7 miljoner kronor i bidrag.
https://www.smartareelektroniksystem.se/beviljade-projekt/beviljade-projekt-2018/

Aktuell utlysning: Öppen 14 januari – 14 mars 2019

Utlysningen avser forsknings- och innovationsprojekt med inriktning på elektronik inom något av programmets tio spetsområden. Projekten förväntas resultera i att ny kunskap tas fram som kan nyttiggöras i nya förbättrade produkter eller processer genom ny, alternativt stärkt, samverkan mellan företag, offentlig verksamhet, universitet, högskolor eller forskningsinstitut.
De inkomna projektförslagen förväntas ha som mål att lösa en eller flera behovsägares utmaning/problem inom ett relevant tillämpningsområde och visa på en koppling och samverkan mellan ingående aktörer inom en sammanhängande värdekedja. Bidrag till projektet är högst 4 miljoner kronor och maximalt 50% av projektets totala stödberättigande kostnader. Bidrag till deltagare är maximalt 2,5 miljoner kronor per projektpart. Projekttiden är maximalt 24 månader och preliminär budget för utlysningen är 34 Mkr.

Projektet kan tidigast starta 1 juli och senast 1 september 2019. Programmets spetsområden är:

– Antenn-, mikrovåg- och terahertzsystem
– Fotonik
– Sensorer
– Inbyggda system
– Mikro- och nanoelektronik
– Tryckt elektronik
– Kraftelektronik
– Byggsätt
– Tillförlitlighet
– Avancerad produktionsteknik

Sista ansökningsdag till Vinnova är 14 mars 2019 kl. 14.00.
https://www.vinnova.se/e/strategiska-innovationsprogrammet-smartare-elektroniksystem/forskning-innovation-2018/

Med stöd från
VINNOVA Sveriges innovationsmyndighet
Energimyndigheten
FORMAS
Strategiska innovations-program

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Workshop on Business development of Photonic companies addressing the Healthcare market

The Roadshow event was organized in Stockholm at **Ulrikdals värdshus on the 12 + 13 of June 2018.**
Healthcare is one of the four priority areas and KETs, including photonics, as a policy objective in its RIS3 (recent revision phase of the regional strategy). The workshop is financed by the EU project EPRISE and organized by PhotonicSweden.

Stockholm represents also almost half of the photonics companies in Sweden and nearly 50% of them focus on the Healthcare market. Go-to-market sessions in the framework of the event addressed most of the challenges raised by SMEs during the regional workshop, including business development, finding customers and financing. Besides, two experts attending the event were selected from the EPRISE pool of experts.

54 participants whereof 22 were international participants. They represented such countries as Belgium, Czech Republic, Finland, France, Germany, Greece, Ireland, Italy, Poland, Portugal, Spain, and the UK.

Furthermore, an international meeting of regional representatives, in the framework of the European Photonics Alliance was organised. Regions attending the meeting included Berlin-Brandenburg, Catalonia, Netherlands, North Karelia, PACA, Stockholm, Thuringia, Tuscany and Västra Gotaland.

<u>9 experts provided an overview of their solutions:</u>

- Jürgen Popp (Leibniz Institute, etc.): *Regional and EU funding. How Innovation Hubs and Competence Centers Can Help.*
- Edward Schneider (Spirit Ventures): *Venture capital to KET companies (longer-term VC).*
- Ian McCabe (NUI Galway): *Value-chain analysis and how it can help companies navigate globally.*
- Thierry Robin (Tematys): *Detailed market knowledge.*
- Dirk Voelkl (GE Healthcare Life Sciences): *Support programmes to partners including SMEs from a large company.*
- Iris Öhrn (Göteborg Business Region): *Regional support with the very special example of the Västra Götaland region (see also below 2.5.1).*
- Anna Tegnesjö (Vinnova): *National innovation funding and the many support programmes for SMEs.*
- Raoul Stubbe (Stockholm Innovation and Growth): *Accelerating growth of startups with incubators.*
- Ruth Houbertz (Multiphoton Optics GmbH): *Company development, gender issues.*



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China-Europe Innovation Cooperation Summit & Technology Startup Forum held in Stockholm 2018-11-13

This Swedish Summit was held 2018-11-13 at Hotel Sheraton in Stockholm. The summit was opened by Mikael Östling, Professor of Solid State Electronics, Deputy President of the Royal Institute of Technology, and invited Keynote speaker was Dr.Lennart B.M.Svensson from PhotonicSweden, presenting Photonics activities in Sweden and Photonics applications

From left Mikael Östling KTH, Lennart BM Svensson PhotonicSweden, Qin Wang RISE, Bo Hammarlund Ascatron AB, and Anne Lidgard Vinnova.

Attendes and speakers at the China-Sweden Summit

Along with presentations from start-up companies, the Summit had panel discussion was attended by Marcus Skinner at Edurus AB, Lin Yingbo at The Nordic Chinese Association for Innovation and Entrepreneurship, Qin Wang at RISE, Josefine Gillver at Explore China, Vivien Yang Swartz at International Business Development of BGI Group, and Sonia Kaurah at SUP 46.

Invitation to the 3rd China (Shenzhen) Innovation & Entrepreneurship International Competition· Stockholm（Sweden）Division

The 3rd China (Shenzhen) Innovation & Entrepreneurship International Competition has officially been launched on December 1st, 2018. The competition will attract numerous high-quality overseas start-up projects, in order to integrate innovation and entrepreneurship resources to help foreign innovators and entrepreneurs connect with Chinese hi-tech industrial resources, thus expanding the Chinese market for win-win results.

Brief introduction of the competition

Registration for the competition is open from December 1st, 2018 to February 28th, 2019. In March 2019, Overseas Division Competitions will be held in 10 cities across 9 countries, and the preliminary round for the Professional Competition will start at the same time. As a result, more than 100 outstanding projects selected from the Overseas Division Competitions and Professional Competition will meet in Shenzhen in April 2019 and compete for the final awards.

The competition offers a total prize poof of RMB 11.2 million (1.43 million Euros).

Download more info in English here:
http://photonicsweden.org/wp-content/uploads/Invitation-to-the-3rd-China-Competition.pdf

Registration Time: December 1st 2018 => February 28th 2019.

Register now at: http://cn.itcsz.cn

InteBridge

High-tech Investment
Technology Incubation
Global & China Strategy

Shenzhen China-Europe Innovation Center was launched by **InteBridge Technology Incubation Ltd**. Core team members all graduated from world's best known institutes of higher learning such as the University of Cambridge, KTH Royal Institute of Technology, Tsinghua University, Zhejiang University and possessed more than ten years of overseas technology R&D and investment experiences. Shenzhen China-Europe Innovation Center is headquartered in Shenzhen, China, and has offices in Cambridge and Stockholm, with the main focus on technology exchange, project incubation, investment and M&A of China and Europe high-tech industries.

Our Goal is that we hope that we can link the latest high technology and capitals, promoting the technical industrial communication between China and Europe.

Our Strength is that wer are the gateways to the Chinese listed companies, funds, and science parks. Our team are dedicated to bridging the gaps between the overseas and Chinese partners.

Venture Capital, as an investment entity, InteBridge Capital experts in areas of electronics, photoelectric communications, AI, robotics, new energy and new materials projects, mainly focuses on Great Britain, Germany, Sweden, the Netherlands and other European countries with hi-tech industry clusters.

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PhotonicSweden management team och ordförande. Från vänster Lennart BM Svensson, Petra Bindig, Magnus Breidne, Staffan Tjörnhammar och Pierre-Yves Fonjallaz.

I samband med PS-styrelsemöte på IVA fredagen den 14 december avtackades Pierre-Yves Fonjallaz som varit medarbetare och medgrundare sedan starten 2011 av PhotonicSweden. Pierre-Yves har med familj flyttat tillbaka till Lausanne i Schweiz efter 23 års vistelse i Sverige. Pierre-Yves Fonjallaz ersätts av Staffan Tjörnhammar. För de som vill komma i kontakt med honom är hans nya adress:

Pierre-Yves Fonjallaz PhD
Programme Manager
International Funding | Research Office
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EPFL | École Polytechnique Fédérale de Lausanne
EPFL VPR DAR ReO
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Email: pierre-yves.fonjallaz@epfl.ch

PhotonicSwedens ordförande Magnus Breidne avtackar Pierre-Yves Fonjallaz

Dr. Staffan Tjörnhammar är 38 år och är gift med Janeth sedan 13 år som han har två barn med.
Familjen bor i Rimbo och har bla ridning som passion. Staffan gillar musslor med champagne om han får välja något extra gott.
Staffan disputerade 2015 på avdelningen för Laserfysik på KTH med titeln *"Properties of Volume Bragg Gratings and Nonlinear Crystals for Laser Engineering"*. Staffan har flera engagemang, som förutom deltidsforkare på KTH även omfattar att vara Kommunalråd i Norrtälje kommun, ordförande för Campus Roslagen AB, VD i SLF - Svenska Laserfabriken AB, Huvudman i Roslagens Sparbank, samt nu även deltidsengagemang i PhotonicSweden. Staffan efterträder Dr. Pierre-Yves Fonjallaz.

Ursula Gibson, president för Optical Society (OSA) 2019

Ursula Gibson är sen den 1 januari president för OSA, den ledande organisationen för optik och fotonik som bildades redan 1916. Hon har en doktorsexamen från Cornell University och har bl.a. arbetat på Bell Labs, University of Arizona Optical Sciences Center, Dartmouth College och är nu professor på NTNU I Trondheim och affilierad professor på Tillämpad fysik på KTH.

Hennes forskning ligger I gränslandet mellan materialfysik och fotonik med inriktning mot lågdimensionella system. På senare år har hennes forskning på halvledarkärnefiber, som hon utvecklar tillsammans med laserfysikgruppen på KTH, fått en stor uppmärksamhet. Dessa förväntas få tillämpningar inom allt från solceller, till mellan-IR ljuskällor.

China-Sweden Business Forum on 24th-26th October 2019 in Stockholm

China-Sweden Business Council (CSBC) is a nonprofit association dedicated to be the natural point of contact and voice for businesses between China and Sweden. The CSBC is open to members of all nationalities, we offer high-value events, productive networking and promotional opportunities, valuable information services, and access to influential institutions and individuals. Our mission is to strengthen business ties between China and Sweden, promote and support the business interests of all our members, and actively encourage new Swedish business into the Chinese market as well as Chinese investment into Sweden.

To strengthen the economic and trade cooperation between China and Sweden, China-Sweden Business Council is going to organize the third China-Sweden Business Forum on 24th-26th October 2019 in Stockholm. This event is aiming at promoting the friendly cooperation between Sweden and China business communities, assisting the Enterprises of both sides in seeking cooperation opportunities, and ensuring robust and frequent Exchanges among goverments, businesses and opinion makers. CSBC's goal is to provide the best opportunity by its services, to succeed in your business at new market. Collaboration with PhotonicSweden is under discussion, aiming to promote business opportunities and exhibition possibilities in China for its members. For more information, please contact:

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Executive Director
+46-70-680 66 88
lydia.liu@csbc.se

China-Sweden Business Council (CSBC)
Forumsvägen 14, Vercity
131 81 Nacka
Stockholm, Sweden
www.csbc.se
Org.no. 802496-7880

Eventets namn: **Optopub: Regular, smart and LiFi Lighting at the Swedish Energy Agency**
Plats: Swedish Energy Agency (SEA), Rosenlundsgatan 9, Stockholm, Sweden
Datum: **31 January-2019**
Info: www.photonicsweden.org
Registration: https://doodle.com/poll/smk6yxsbdbknei66
Contact: lennart@photonicsweden.org

Eventets namn: **Optopub: Strenghten the collaboration for innovation between Latvia and Sweden**
Plats: Room Knuth, RISE-Acreo, Kistagången 16, Kista, Sweden
Datum: **28 February-2019**
Info: www.photonicsweden.org
Registration: https://doodle.com/poll/dz26ppei3f4a8smd
Contact: lennart@photonicsweden.org

Eventets namn: **Stockholm Final of The 3rd China (Shenzhen) Innovation & Entrepreneurship International Competition**
Plats: Conference Room A, KTH-Electrum, Kista, Sweden
Datum: **26 March-2019**
Info: www.itcsz.cn
Deadline: Submission deadline is 28 February 2019
Contact: lennart@photonicsweden.org , hammar@kth.se , qin.wang@ri.se

Eventets namn: **Nordic Workgroup Meeting** (meeting before start of Ph21 Annual Meeting)
Plats: Nordic House, Rue du Luxembourg 3, Brussels, Belgium
Datum: **27 March-2019**
Info: www.photonicsweden.org
Contact: lennart@photonicsweden.org

Eventets namn: **Photonics Public Private Partnership Annual Meeting**
Plats: Royal Museum of Fine Arts and the SQUARE, Brussels, Belgium
Datum: **27-28 March-2019**
Info: www.photonics21.org/events-workshops/photonics-public-private-partnership-annual-meeting-2019
Contact: petra@photonicsweden.org

Eventets namn: **Workshop: Photonics 4 Recycling Waste Material & Metal Processing**
(EU-project NextPho21 arranged by PhotonicSweden)
Plats: Skellefteå
Datum: **3-4 April-2019**
Info: www.photonicsweden.org
Contact: lennart@photonicsweden.org & petra@photonicsweden.org

Eventets namn: **Smartare Elektroniksystems Inspirationsdag med Kompetensnaven**
Plats: Mälardalen (TBD)
Datum: **25 April-2019**
Info: www.smartareelektroniksystem.se/event/inspirationsdag-i-malardalen
Contact: lennart@photonicsweden.org , magnus.svensson@smartareelektroniksystem.se

Eventets namn: **Optics & Photonics in Sweden 2019**
Plats: KTH-Electrum, Kista, Sweden
Datum: **16-17 October-2019**
Info: www.photonicsweden.org
Contact: lennart@photonicsweden.org & petra@photonicsweden.org

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(ordförande)

Ordinarie ledamöter

Mårten Armgarth, Avdelningschef Elektrooptiska system, FOI
Peter Björkholm, CEO RISE Acreo
Magnus Breidne, Projektchef på IVA
Björn Broberg, Docent i fotonik, serieentreprenör
Carlota Canalias, Ass. Professor at KTH, Laser Physics Group
Ulf Dahlberg, UBR Development, Senior Advisor/ Consultant
Ewa Orlowska, Hamamatsu Photonics Norden AB,
Mikael Sjödahl, Professor LTU
Peter Strömberg, Utvecklingschef Fixturlaser—Acoem AB
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