

## AGENDA

### ■ LIDAR summer school

SFO International Thematic Summer School at the observation of Haute Provence, OHP, France

June 11- 16 2023

### ■ JNOG Lyon 2023

Registration for the conference is open now INL, Lyon, France  
Follow us on

<https://www.sfoptique.org/>  
5 au 7 July 2023

### ■ Waves in complex media

SFO International Thematic School Houches Physics School, Chamonix Mont Blanc Valley, France

September 17- 29 2023

### ■ EOSAM 2023 in Dijon by SFO and EOS

Congrexpo, Dijon, France  
September 2023 11- 15 2023

### EVENTS SPONSORED BY SFO

#### ■ SFP Congress

3/07/2023 - 7/07/2023, Paris

#### ■ QUEST 2023

27/06/2023 - 30/06/2023  
Paris

#### ■ ICL 2023

27/08/2023 - 01/09/2023  
Paris

#### ■ MNO 2023 conferences

19/09/2023 - 21/09/2023  
Université de Technologie de Troyes (UTT)

Follow all optic events by SFO on

<https://www.sfoptique.org/>

## Early Stage Researcher Session @ EOSAM 2023, boosted by the SFO Young Researchers Club

**W**e are fully committed to co-organizing EOSAM 2023 and participating in almost all the committees for the Topical Optical Meeting and Special Sessions. We are confident that EOSAM 2023 will be a great success!

The SFO Young Researchers Club, which was recently created, is at the forefront of co-organizing the Early Stage Researcher Session with the EOS Finland Student Club. This session will provide a stress-free opportunity for young people from the European optical community to exchange ideas and network, discussing topics such as small scientific advances, challenges faced, and practices in other countries. The session will be led by the Chairs, Pierre Balage, co-president of the SFO Young Researchers Club, and Roman Calpe, of the EOS Finland Student Club.



**EOSAM 11-15 September 2023**  
Dijon, France

European Optical Society Annual Meeting

Organized by  
EOS European Optical Society  
Société Française d'Optique 1983-2023

THORLABS LUMIBIRD SILENTSYS imagineOptic PHASICS  
OPTON LAYER OBS FIBER MenloSystems AeroDODE VON ARDENNE

The rendez-vous of the European academic and industrial Optical-Photonic communities

**Plenary Speakers**

					
Thomas Ebbesen	Valentina Emiliani	Ursula Keller	Fabio Sciarino	Laura Na Liu	Jean-Pierre Wolf

ICB UB Dijon Côte d'Or REGION BOURGOGNE FRANCHE COMTE



International Day of Light  
16th May

**Light Box**  
LE KIT PÉDAGOGIQUE DE PHOTONIQUE

1983-2023

## LIGHT WITH SFO LIGHTBOX

On this International Day of Light (IDL - May 16<sup>th</sup>, 2023), the SFO, French Optical Society promotes the scientific culture of optics and photonics by encouraging education, scientific outreach, and networking of scientific leaders throughout the country.

MORE INFORMATIONS:

<https://www.lightday.org/> - <https://www.sfoptique.org/>

## Minalogic Business Meetings 2023: a bumper edition



**M**inalogic's flagship open innovation event was held for the ninth time at Groupama Stadium in Lyon, on March 30, 2023. Once again, participants have widely lauded this yearly forum that has

brought together 474 people, including 155 digital solution providers and 219 contractors. Overall, the show hosted no less than 1462 appointments, as well as conferences on HR issues and solutions.

For more information: <https://www.minalogicbusinessmeetings.com/>

### MINALOGIC:

**500 MEMBERS, INCLUDING 95 PHOTONICS COMPANIES**  
**885 PROJECTS CERTIFIED AND FINANCED SINCE 2005, FUNDED WITH 1.14 BILLION EUROS OF PUBLIC SUBSIDIES, FOR AN R&D INVESTMENT OF OVER 2.7 BILLION EUROS SINCE 2005**  
**11200+ B2B MEETINGS SINCE 2005**

## PME TOUR DGA 2023: an overview of quantum technology for civil and military applications

October 5, 2023 at the Campus Région du Numérique (Charbonnières-les-Bains, Métropole de Lyon, France)



Organized by Minalogic and the French Defense Procurement Agency (Direction Générale de l'Armement), this event follows in the steps of the three previous themed days organized by Minalogic on quantum technology and the national quantum acceleration strategy announced in 2021 by President Macron.

For the first time, quantum technology will be addressed in terms of dual applications. All industrial or academic players concerned or interested in the development of quantum and quantum-enabling technology are expected to participate. This day will give you the opportunity to exchange and meet with the contractors of the defense market and your potential partners for future collaborative projects.

For more information:

<https://www.minalogic.com/evenements/pme-tour-dga-panorama-des-technologies-quantiques-pour-les-applications-civiles-et-militaires/>



## GLOBAL INDUSTRIE 2023: A SHOWCASE FOR OUR MACHINE VISION MEMBERS

**O**ur members Visioshape, Expertise Vision and Teledyne e2v were invited to attend the panel discussion led by Minalogic at the Global Industrie 2023 trade show held in Lyon from March 7<sup>th</sup> to March 10<sup>th</sup>, 2023. Our expert members in machine vision explained how they develop innovative products and methodologies within the regional industrial ecosystem in order to meet the requirements of new production processes: femtosecond lasers on robotic arms, aspect control of parts, implementation of AI-enabled image sensors.

### AGENDA

■ **PME TOUR DGA 2023: an overview of quantum technologies, October 5, 2023 in Charbonnières-les-Bains**

■ **Laser World of Photonics 2023, June 27–30, 2023 in Munich**



### CONTACT ME

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 at Minalogic

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## French photonics at Photonics West 2023



French photonics was well represented at Photonics West, the world's premier lasers, biomedical optics, biophotonics technologies and quantum optoelectronics event, which took place in San Francisco from January 31<sup>st</sup> to February 2<sup>nd</sup>, 2023.

The ALPHA-RLH cluster was present alongside its members who exhibited in the French Pavilion organized by Business France, such as ALPhANOV, AUREA Technology, Femto Easy, First Light Imaging, GLOphotonics, GoyaLab, or on their own booth.

Frédéric Jung, Consul General of France in San Francisco, was able to discover during his visit their expertise and their technologies around photonics, laser, optical fibers, quantum technologies... The 2023 edition was marked by an increase in attendance and the return after the pandemic of some countries like Japan. The booths focusing on quantum technologies attracted a lot of interest from visitors.

ALPHA-RLH also met with partner clusters : PhotonDelta (Netherlands), OptoNet e.V. (Germany), Optonique (Canada), Mexican Photonics Cluster, Arizona Photonics Cluster and ENRICH (USA).

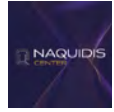
### UPCOMING INTERNATIONAL EVENTS

■ Paris Air Show -  
June 19-25  
in Paris-Le Bourget (France)

■ Laser World of Photonics  
June 27-30 in Munich (Germany)

■ Laser World of Photonics China  
July 11-13 in Shanghai (China)

## Quantum Week in the Nouvelle-Aquitaine region



Quantum technology will be in the spotlight from July 10 to 13, 2023 in Bordeaux through the Naquidis Center. This innovation center dedicated to quantum technologies aims to develop research projects, innovative applications and technological solutions around three themes: sensors, communication and supply chain.

Launched in 2021 by the Institut d'Optique Graduate School, the universities of Bordeaux and Limoges, the CNRS, the Nouvelle-Aquitaine Region and the ALPHA-RLH cluster, it brings together internationally renowned scientists.

Several events will take place during the Quantum Week: the meeting of the Naquidis Center's Scientific Advisory Board, workshops and an exhibition for the general public. The highlight will be on July 11, when the industrial and academic communities of the national quantum ecosystem will gather around Alain Aspect, Nobel Prize in Physics 2022, guest of honor.

These events aim to facilitate the understanding of quantum, to highlight technologies developed by French companies, to encourage exchanges and collaborations between industrialists and researchers and to promote science to young people.

## European conference “Towards a greener Defence”



With the ambition of addressing the theme of green actions in the field of Defence and their objectives vs impacts, the European Commission and the Nouvelle-Aquitaine Region, supported by the defence-related competitiveness clusters (including ALPHA-RLH) organized a conference on January 24<sup>th</sup>, 2023 in Bordeaux.

This event focused on the European approach in this area, as well as on dedicated themes: lifecycle, energy and skills. 90 European and regional stakeholders were present: members of the EC, policy makers/institutions, companies, industrials, clusters.

After a presentation of the global challenges the European industries are facing in terms of sustainable development, the discussions have highlighted ongoing initiatives at European level. Innovation and expertise (including photonics and RF) were also presented through applications (sensors, pickling, transformation, process...). This event echoed the current trends as calls for projects in the Defence sector require to contribute to the energy and ecological twin transition.

## JAPAN, SOUTH KOREA & SINGAPORE MARKETS: WHICH OPPORTUNITIES IN 2023?

ALPHA-RLH is for now established in Japan (Tokyo). Romain Montini, our Asian delegate, facilitates the access of our members to the Japanese, South Korean and Singaporean markets as well as their partnership/commercial development.

He can potentially represent you on 3 international fairs dedicated to photonics identified for 2023 :

- Laser Korea: July 5-7 in Seoul
- Photonix Tokyo: October 4-6 in Tokyo
- Tech Week Singapore: October 11-12 in Singapore

Contact: Romain Montini – [r.montini@alpha-rlh.com](mailto:r.montini@alpha-rlh.com)





# The NANO-PHOT graduate school: research matters !

## NANO-PHOT supports conferences

NANO-PHOT is sponsoring the MNO<sub>2023</sub> conference, which will take place at the University of Technology at Troyes France from September 19th to 21<sup>st</sup>, providing an overview of the development



of metallic nano-objects and their applications, especially in optics and photonics. The students will be fully involved!

## “Nanophotonics and Sustainability” Summer School

NANOPHOT organizes a summer school coupled to the MNO 2023 conference. On Monday September 18<sup>th</sup>, expert lecturers will cover important topical subjects related to the use of light for addressing the energy crisis and environment issues: Plasmons sensing for environment and health (Marc Lamy de la Chappelle); Plasmonic Organic Light Emitting Diodes: challenges and issues (Azzedine Boudrioua); Semiconductor Nanoparticles: Efficient Light Absorbers and Emitters (Vladimir Lesnyak); Nanophotonics for optical computing (Christophe Couteau); Nanophotonics for Sustainable Solid State Lighting (Gilles Léronde); photocatalysis based on nanoparticles (Suzanna Akil), Nanophotonics for solar photovoltaics (Stéphane Collin).

## NANO-PHOT support PhDs

In general, NANO-PHOT encourages the students to prepare a PhD after they graduate master.



**Kevin Kim**

“Since I was young, I have always wanted to understand the world around us. Simple questions at the beginning, then more and more complex as an adult, like engineering problems. In this perspective, I studied an MSE in material sciences at the University of Technology of Troyes (UTT) and then I specialized in nano-optics and nanophotonics with a double diploma, the MSc NANO-PHOT in the same university. During my various internships, I discovered the exciting world of scientific research. After my graduation, the pursuit of a Ph.D. thesis was an obvious choice. I choose to work in research because it is a field where we are constantly learning and creating knowledge. My Ph.D. thesis in the UTT’s L2n lab is about the development of the SEIRAS technology (Surface Enhanced Infrared Absorption Spectroscopy) using MXenes materials. In a few words, the idea is to develop a new type of nanoantennas made of atomically thin layers of transition metal carbides or nitrides called MXenes for ultra-sensitive detection in the infrared region”



**Joelle Youssef**

“I completed my 2-years masters’ studies in 2021 at UTT within the NANO-PHOT graduate school. My master 2 internship also took place in Troyes at the L2n laboratory and its main purpose was to study and analyze various 2D nanomaterials employed in surface plasmon resonance biosensors. Following this interesting 6 months experience, I decided to stay within this domain and apply for a related thesis. My current PhD project which is the continuation of my master project deals with the development of an advanced, compact and highly sensitive surface plasmon biosensor bench for the early detection of cancer to be easily used by a medical laboratory CAPTuR (CHU of Limoges); it’s a joint PhD CIFRE thesis between Alphanov (centre technologique d’optique et laser located in Bordeaux), xlim laboratory in Limoges and UTT (L2n) . I believe my current project has a very good potential due to its important and valuable applications in the medical world and will likely open the door towards new research opportunities for further improvements”

## AGENDA

■ NANO-PHOT sponsored the C’Nano conference that took place in Poitiers in March 2023 (<https://cnano2023.sciencesconf.org/>)

**Many NANO-PHOT students attended the event, including Juan Xin who won the best poster presentation. Her work is entitled “Metasurface design by capillarity-assisted nanoparticles assembly in a microfluidic channel”. Congratulations to Juan!**

■ Fours new partners recently joined our network:

2 academic partners (Cimbio, University of Vigo and ICB, University of Burgundy see <https://nano-phot.utt.fr/academic-partners>) + 2 industrial partners (Nanovation and XRnanotech see <https://nano-phot.utt.fr/industrial-partners>).

■ Applications to join the NANO-PHOT master program are open until May 15 2023, see <https://nano-phot.utt.fr/apply-to-nanophot>.

## Publication of the new book from the 'Institut d'Optique Graduate School Advanced Textbooks' collection - EDP Sciences:

*Radiometry of wet surfaces - When Water Matters*

Edited by Lionel Simonot, this collective work studies how water modifies photometric properties of surfaces, using several approaches (analytical models, visual rendering models, ...) and in multiple fields of applications: oceanography, road safety, planetology, colour printing, ... This book was initiated by the GDR Appamat – directed by Mathieu Hebert, professor at Institut d'Optique and Université Jean Monnet (Saint-Etienne) – a grouping of research focused on material appearance created in 2019 by the French national center for scientific research (CNRS).

## CONTINUING EDUCATION AGENDA :

■ **SC3 - Understand laser sources**  
June 5 to June 9, 2023

■ **CO5 - Thin layers optics: introduction**  
June 6 to June 7, 2023

■ **SC1 - Optomechanics**  
June 12 to June 15, 2023

■ **CO<sub>2</sub>VIS - Optical design with Zemax®-OpticStudio – Advanced**  
June 19 to June 21, 2023  
(distance training)

■ **SC9 - Design of optical imaging systems**  
September 12 to September 15, 2023

■ **SC15 - Optoelectronics**  
September 27 to September 29, 2023

■ **SC11 - Design of infrared cameras ;**  
October 3 to October 6, 2023

### CONTACT

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## Speed-meeting between high school girls and women in science

The second edition of the speed-meeting between young girls and women scientists took place on March 9<sup>th</sup>, 2023 at Institut d'Optique Graduate School (IOGS). More than 40 girls aged between 13 and 20 years old had the chance to talk to a dozen of women working in science.

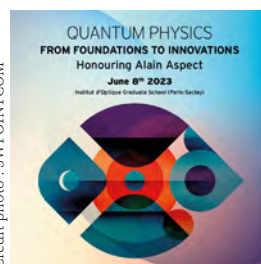
Despite great progress towards increasing female participation in higher education, women still remain under-represented in scientific fields. To lower this gender gap, it is necessary to encourage girls to embrace careers in science and technology, especially at an age when they are starting to make choices about their future career paths.

To participate in this goal, Institut d'Optique organized for the second consecutive year an event where young girls (mainly in high school) met with inspiring women engineers, researchers, students, teachers, entrepreneurs, serving as role models. In groups of three or four, the participants met with each of the ten women scientists for ten minutes. The young girls could ask all of their questions and share their doubts in an atmosphere of trust. For this second edition, the 40 girls also benefited from a visit of research lab experiments and experimental works of Institut d'Optique presented by women teachers, research engineers and PhD students. The participants were amazed by the discovery of the giant Michelson, the optical tweezers, the thermal camera or the luminescent concentrators. The large smiles seen on all faces at the end of the day and the positive feedbacks from the young girls confirmed the beneficial impacts of such events.



Credit photo : SOAP

*"I really enjoyed this session: each women are different as well as their background, motivations and desires. [...] It reassured me on certain points such as social background. Knowing that some of them had a hard time starting out and still managed to achieve their goals gave me strength and faith in my convictions. I was also able to approach my orientation in a more serene way."*



Credit photo : 3WPOINTCOM

## A CONFERENCE HONOURING ALAIN ASPECT'S CAREER: REGISTRATIONS ARE OPEN !

To celebrate Alain Aspect's career, in light of the recent award of the Nobel Prize in Physics 2022, Institut d'Optique Graduate School organizes an international scientific conference.

This one-day conference, entitled "Quantum Physics from Foundations to Innovations: Honouring Alain Aspect", will take place on June 8<sup>th</sup>, 2023 at the Institut d'Optique (Paris-Saclay).

The conference will propose talks on scientific topics Alain Aspect pioneered or significantly contributed to, and on technological developments enabled by it.

Prestigious speakers such as William Phillips, Eric Cornell and Nicolas Gisin are already confirmed. In addition to scientific sessions on quantum optics and quantum atom optics, a quantum technology session will include talks from Quandela, Pasqal and Muquans (Exail). The conference will also be live broadcasted all around the world on Institut d'Optique Youtube channel.

More information and free registration at: [iogs-aspect2023.sciencesconf.org](https://iogs-aspect2023.sciencesconf.org)



# EOS AM

European Optical Society Annual Meeting

## 11-15 September 2023 Dijon, France

The rendez-vous of the European academic and industrial  
Optical-Photonic communities

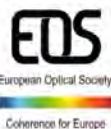
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SOCIÉTÉ FRANÇAISE D'OPTIQUE  
40<sup>th</sup> ANNIVERSARY 1983-2023

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## NEW MEMBERS



Welcome to our new members :  
Université Côte d'Azur, Université  
de Montpellier, ADMIR.

## AGENDA

Photonics France organizes its general meeting on June 22<sup>nd</sup> at the French National Assembly.

It will be followed by conferences about photonics to present the French photonics industry through concrete demonstrations presented to politics, public decision makers and the media.

■ **Photonics France's General Meeting :**  
June 22<sup>n</sup> - French National Assembly, Paris

■ **Laser World of Photonics**  
June 27-30  
Messe München

■ **Photonics for Agriculture**  
September 14<sup>th</sup>  
Rennes

■ **French Photonics Days #5**  
October 17-18  
Strasbourg

**Sponsor our events!**  
Contact us by mail  
(see below)

TO CONTACT  
PHOTONICS FRANCE

[contact@photonics-france.org](mailto:contact@photonics-france.org)  
[www.photonics-france.org](http://www.photonics-france.org)

## Developing training in photonics

The photonics industry is growing, and at the same time its need for qualified operators and technicians. Photonics France has been working for several years to develop training opportunities and help for the high demand for these jobs.

**P**hotonics sector is currently experiencing rapid and continuous growth. The need for jobs in all fields is very high. At least 4,000 operator and technician positions are currently created each year.

Beyond the well-established courses for engineers and doctoral students, training in photonics, from the bachelor's to license's degree, is struggling to develop despite the strong demand from companies. To help with this situation, Photonics France acted to develop these courses and the attractiveness of the sector.

The partnership with the French Ministry of Education and its academies just resulted in the creation of a professional bachelor's degree named " Optics - Photonics: Light Technologies". The training will be now official and will be implemented in September 2024 in average 6 regions where many photonics companies are located.



Photonics France's Employment and Training Commission works to develop job's attractiveness. A communication kit for companies, schools and trainers is being prepared. Many of our academic members are already participating as well as companies involved in professional training. Come and join us! Visit our new website for education and training in photonics:

[www.orientation-photonique.org](http://www.orientation-photonique.org)

## LASER WORLD OF PHOTONICS - MÜNCHEN MEET OUR MEMBERS!

The Laser World of Photonics exhibition will take place in Munich from June 27<sup>th</sup> to June 30<sup>th</sup>, 2023. Meet the Photonics France's members at this event.

The Laser Word of Photonics is a major annual event for photonics professionals. It will begin on June 27<sup>th</sup> at the Messe München exhibition center. Photonics France will be largely represented by its members.

Find on the French Pavilion, organized with our partner Business

France : ALPHA-RLH, ALPhANOV, ARDOP Industrie, Cristal Laser, Femto Easy, Fibercryst, GLOphotonics, IDIL Fibres Optiques, Le Verre Fluoré, LEUKOS, LUZILIGHT, MATHYM, Photonics Bretagne, QiOVA, SILENTSYS and Symétrie.

You will also find our members on their own stand : Amplitude Laser Group, AUREA Technology, CAILabs, CEDRAT Technologies, exail, Fastlite, Goyalab, Imagine Optic, ISP SYSTEM, LUMIBIRD, LUZILIGHT, Oxsius, PHASICS, Quandela, SEDI-ATI Fibres Optiques, SOMOS and Thales.





New Decade  
New Logo  
Same Mission



## Driving competitiveness of the European photonics industry

EPIC is the world-leading industry association that promotes the sustainable development of organizations 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.

### PLATINUM SPONSORS

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## EVOSSENS'S TARGET-THERAPY PROJECT FOR MEDICAL PURPOSES

**E**VOSENS, a leading photonics company in systems integration, participates with INSERM in Target-Therapy project to provide its expertise in the development of “customized” solutions adapted to the envisioned biomedical application.

This project aims to significantly improve the treatment of recalcitrant respiratory tract bacterial infections through the use of light, focusing on the WHO priority-1 pathogen *Pseudomonas aeruginosa* as one of the most dangerous key multi-drug resistant bacteria. The therapeutic approach is based on photodynamic therapy, which holds great promise to rescue the loss of efficiency of current antibiotics. It makes use of photosensitizers that upon light exposure, induce oxidative damages killing pathogens in the surrounding environment.

EVOSSENS and the Target-Therapy project team got in touch thanks to Photonics Bretagne. The partnership was recently embodied in the “ILightIT!” project, awarded by BPGO, which specifically aims to help finding light-based solutions to demonstrate – under ex vivo condition and then in a murine animal model – the effectiveness of the photodynamic systems developed as part of the Target-Therapy project.

### AGENDA

■ Photonics Bretagne  
General Assembly  
June 16, Pleumeur-Bodou  
golf course (Brittany, France)

■ Laser World of Photonics  
June 27-30, Munich (Germany)

## Photonics Bretagne Represents France at the Photon Hub Europe Meeting

**T**he recent Photon Hub Europe consortium meeting was an excellent opportunity to take stock of this wide-reaching pan-European effort. Photon Hub Europe aims to support photonics innovation through coaching, financial support and training. Six dedicated outreach groups tackle specific fields of economic activity, such as the agrifood sector, the health or the space industries. Many insightful conversations and ideas were shared during these two days thanks to everyone’s lively participation and we all already look forward to the next meeting! *Would you like some help to bring your photonics idea to life or grow your business through a photonics innovation? Reach out to us!*



## APPLY FOR TRAVEL FUNDING TO ATTEND LASER WORLD OF PHOTONICS

**T**he Photonics4Industry\* partnership organises a VIP programme on the back of Laser World of Photonics, in Munich. Join us from June 26<sup>th</sup> afternoon to June 29<sup>th</sup> and get the most of the conference with dedicated topical visits, matchmaking times and an evening cocktail sponsored by Business Finland. Reach out to Gwenaëlle Lefeuvre (glefeuvre@photonics-bretagne.com) for more information and to apply for the funding. Please note: cluster membership is not restricted to Photonics Bretagne, nor is it limited to photonics itself!

\*Photonics4Industry is a COSME Partnership for Excellence and a collaboration between Photonics Bretagne, Photonics Austria, Photonics Finland, TOOLAS in Lithuania and Photonics BW e.v.

## The European Deputy Valérie Hayer Visits the Photonics Park in Lannion



Photonics Bretagne welcomed European deputy Valérie Hayer to its facilities at the Photonics Park in Lannion (Brittany) at the end of February, as well as French deputy Eric Bothorel, Lannion Trégor Community President Gervais Egault and several local elected officials. Following a guided tour of Lumibird, the visit was an opportunity to understand the stakes of the Breton photonics sector in Europe thanks to a general presentation of the activities of Photonics Bretagne. The group was then able to discover the state-of-the-art equipment and the manufacturing process of an optical fibre. The delegation had gathered for a conference-debate around the issues of sovereignty and reindustrialisation. They left very impressed by the local photonics expertise and its influence at the European level...

