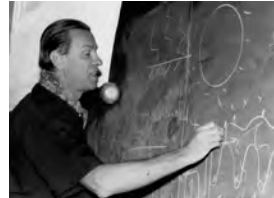


Welcome to the International SFO Thematic School 2024

Thermics & Nanophotonics

April 28 / May 03 – 2024

The Houches Physics School, Chamonix Mont Blanc Valley France

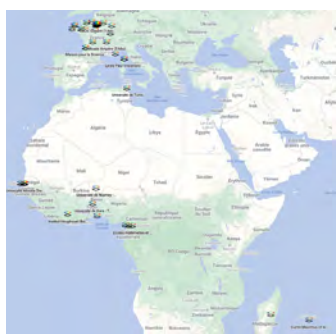


The Houches School of Physics, founded in 1951 by physicist Cécile DeWitt-Morette, offers high-quality education in contemporary physics in an idyllic setting designed to foster reflection. Beyond formal classes, informal idea exchanges during meals or mountain hikes have given birth to new avenues of exploration, fruitful collaborations, and significant scientific advancements. Some young students of the School have become illustrious scientists, such as Pierre-Gilles de Gennes, Claude Cohen-Tannoudji, and Françoise Combes, passing on their knowledge to the School's students in turn.

The SFO, the French Society of Optics, continues this tradition and invites you to participate in the "Thermics & Nanophotonics" school. Joining this thematic school offers a unique opportunity to learn, share, and connect with top leaders in the field of controlling thermal emission and the reciprocal phenomenon of electromagnetic radiation absorption: Natalia DEL FATTI (ILM – FR), Jean-Jacques GREFFET (IOGS - FR), Shanhui FAN (STANFORD - USA), Pramod REDDY (UNIV. MICHIGAN - USA), Philippe BEN ABDALLAH (IOGS - FR), Giulia TAGLIABUE (EPFL - CH), Angela VASANELLI (ENS PARIS – FR), Esther ALARCON-LLADO (AMOLF – NL), Rémi CARMINATI (INST. LANGEVIN/IOGS - FR), Romain QUIDANT (ETH – CH). The development of metamaterials and complex media has resulted in remarkable advancements in heat-light conversion and transfer, driven by light-matter interactions at the subwavelength scale. The participants will explore applications in a wide range of fields, including heat management, energy harvesting and conversion, sensing, imaging, and the development of novel sources and detectors.

We expect 70 participants from over 20 countries.

Application deadline (short motivation letter + CV): December 15, 2023 www.sfoptique.fr



The LightBox is part of the Année de la physique 2023-2024 and International Day of Light.

The LightBox, with more than 276 educational kits distributed worldwide, over 51 completed projects, and over 20 scientific advisors helps the implementation of educational projects. LightBox is a partnership between the SFO Education Commission and AtoutSciences.

OPTIQUE NORMANDIE 2024

01 - 05 July 2024 – Rouen – France

More than 600 attendees

www.sfoptique.fr

From Nano-photonics to Exoplanets, from Quantum Processing to Tissue Imaging, from Integrated Photonics to Doped Optical Fibers, and from Photonic gaps to Gender gaps, OPTIQUE Normandie 2024 will encompass all the hottest areas of Photonics.



Already confirmed plenary speakers:

Alberto AMO, Marwan ABDOU AHMED, Camille BRES, Anne Marie LAGRANGE, Philippe LALANNE, Sandrine LEVEQUE-FORT, Isabelle REGNER, Pascale SENELLART, Réal VALLEE.

Exhibition

Explore the 3-day Optics and Photonics Exhibition in Rouen in France to connect, share innovations, and foster collaborations. Engage with exhibitors to discover cutting-edge designs and solutions. This event gathers researchers, engineers, and buyers, advancing technical knowledge and networking.

Participate in the industrial Workshops

Discover an engaging industrial workshop led by renowned technology experts. Tailored for engineers and researchers, this interactive event allows you to put your skills into practice. Dive into the action and get hands-on with cutting-edge technologies for an unforgettable experience!

Join our collective members and be part of this major event as an exhibitor:

ALPAO, AERODIODE, COHERENT, DIMIONE SYSTEMS, GLOPHOTONICS, EXAIL, EXFO, FC EQUIPMENTS, HAMAMATSU, IMAGINE OPTIC, FC EQUIPMENTS, LUMIBIRD, MENLO SYSTEMS, OBS FIBER, OPTON LASER INTERNATIONAL, OPTOPRIM, OXXIUS, PHASICS, SILENTSYS, THORLABS, VON ARDENNE, WAVETEL, 2BLIGHTING, ...



100th anniversary of DGaO

The Deutschen Gesellschaft für angewandte Optik, DGaO, as the German Branch of the European Optical Society EOS, is innovative in many working fields of photonics and stays young with its members. By connecting students, young scientists and experienced researchers, start-ups and well-established high-tech companies, DGaO promotes fruitful and creative cooperation heading to future innovation. <https://dgao.de/>

EOSAM 2024 moves to stunning Napoli

Each year, EOS organizes its Annual Meeting in different locations across Europe, making each EOSAM a unique event. In 2024 it will move to the beautiful city of Napoli and will be co-organized with the Società Italiana di Ottica e Fotonica, SIOF, the Italian Branch of EOS. More than 500 attendees from all over the world are expected, for presenting their most recent results, networking and catching up. Sessions will be also organized, to facilitate connections among industrial and research communities. EOSAM 2024 will be held on September 9th - 13th 2024. Save the date and stay tuned on <https://www.europeanoptics.org>

CARLA camp for a career in photonics

To attract students that might not be aware of the world of photonics, EOS as a participant of the EU Career Launch Program, CARLA 2.0, will organize a camp in France before the end of 2025. This event will provide a round up view on photonics careers in different market sectors and an overall understanding of the landscape of the photonics ecosystem. It will benefit from the support of a network of industrial partners and mentors, giving a first-hand taste of photonics innovation and entrepreneurship.

Yet another reason to publish your latest research in the Journal of the European Optical Society JEOS-RP

EOS strives to provide to the photonics community the best services. To this aim, EOS owns and runs a high-quality peer-review and open-access journal: the Journal of the European Optical Society-Rapid Publication, JEOS-RP. EOS runs this Journal in close collaboration with the National Optical Societies from Germany (DGaO), Italy (SIOF), Spain (SEDOPTICA), and Portugal (SPOF). Publications are indexed in the main databases to provide optimal visibility. Publication times are short and authors retain their copyright under a Creative Commons Licence CC BY 4.0. Publication charges are kept as low as possible, with additional discounts for EOS members. These achievements are now rewarded by the European Physical Society that has recently added JEOS-RP to its list of recommended Journals!

Visit <https://jeos.edpsciences.org/> to discover all the benefits of publishing in JEOS-RP

CONGRATULATION TO THE AUTHORS OF THE 2023 EOS PRIZE!

The EOS Prize is awarded annually for the best paper published in the Journal of the European Optical Society-Rapid Publication. It consists of a diploma and an invitation to present a plenary lecture, the JEOS-RP Highlight, during the EOS Annual Meeting.



The 2023 Prize was awarded to the paper: "Optical diagnosis of gastric tissue biopsies with Mueller microscopy and statistical analysis", M. Kim, H.R. Lee, R. Ossikovski, A. Malfait-Jobart, D. Lamarque and T. Novikova, *J. Eur. Opt. Society-Rapid Publ.* 18, 10 (2022).

Tatiana Novikova delivering the JEOS-RP Highlight during the EOS Prize ceremony at EOSAM2023.

EOS National Optical Society Members



For more information, visit the European Optical Society, EOS, website <https://www.europeanoptics.org/> or contact our Executive Director, Elina Koistinen elina@europeanoptics.org. Become a member of one of our National Optical Societies and you will be an EOS member. You will discover the benefits EOS offers and how to strengthen your relationships with your peers!

News in Brief

- **NANO-PHOT** had the privilege of welcoming on September 19, 2023, a Thai delegation from the Suranaree University of Technology for developing and implementing new student exchange programs and research collaborations
- **On September 15**, the 2023 NANO-PHOT class of students has been warmly welcomed in Reims. The students enjoyed a lunch as well as a guided visit of the Cathedrale and the Pommery Champagne cellar. We are very happy to welcome this 2023 international class. Best wishes for the coming semesters!
- **Renaud Bachelot**, the director of NANO-PHOT, has contributed to a book, recently published by Springer, entitled "Advances in Near-field Optics".
- **On September 17-18 2023**, a **NANO-PHOT delegation (students and faculties)** attended the **5th edition of the French Photonics Days in Strasbourg**. One of the objectives of this workshop is to review the development of new photonic technologies and their applications.



of NANO-PHOT, has contributed to a book, recently published by Springer, entitled "Advances in Near-field Optics".

AGENDA

■ **Nanophotonics and Micro/Nano Optics International Conference**, 27-29 Nov. 2023, Barcelona, Spain

■ **SPIE Photonics West** 7 January - 1 February 2024 San Francisco, California, United States

■ **SPIE Photonics Europe 2024** 7 - 11 April 2024, Strasbourg, France

CONTACT

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The graduate School NANO-PHOT sponsored the MNO23 international conference and organized a Summer school on the occasion

Back to the successful event



The University of Technology of Troyes hosted the sixth edition of the biannual "International workshop on Metallic Nano-Objects (MNO) on Sept 19-21 2023. Organized by the L2n laboratory (UTT & CNRS-EMR 7004), MNO 2023 provided an overview of recent advances and challenges in the development of metallic nano-objects and their applications. Approximately one hundred people attended the 37 talks and 23 posters presenting newest results about ultrafast and nonlinear plasmonics, enhanced light-matter interactions at the nanoscale, metasurfaces, structural colors, sensors and bio-plasmonics or novel materials and synthesis for plasmonics. Among the 37 talks, 15 were given by young researchers (PhD and postdocs) allowing them to present their work in front of friendly peers. Finally, the social program allowed attendees to discover the historical riches of the city during their stay in Troyes, France. The conference was preceded by a one-day Summer school organized by NANO-PHOT, entitled "Nanophotonics & Sustainability". Seven lectures were given about topical subjects such as organic optoelectronics and photonic computing. More than 50 people attended (see <https://mno2023.sciencesconf.org/resource/page/id/8>)

A new Institute of Photonics in France

Announced in 2022, the Institute of Photonics will be a large consortium of public and private photonics players managed by CentraleSupélec. A first framework agreement was signed in 2022 with key partners: University of Technology of Troyes (including NANO-PHOT), University of Lorraine, University of Strasbourg, INSA Strasbourg, University of Haute Alsace, University of Luxembourg, GDI Simulation, IREPA Laser, SATT Sayens and the Grand E-nov+ innovation agency. The Institute will benefit from a new 2,000 m² space on the Metz campus of CentraleSupélec, which will serve as a central location for exchanges between photonics players and for the demonstration of innovations developed in the Grand Est Region. The main missions of the Photonics Institute will be to develop cooperation in research and innovation between stakeholders, to strengthen the visibility and attractiveness of photonics, to develop new specialized training in photonics and to contribute, through actions innovative teaching methods, better consideration of technologies and in particular photonics in the training program in middle and high schools. The collaborative research carried out within the Photonics Institute will benefit from recognized expertise in particular in nanophotonics, non-linear optics, optical telecoms, laser measurement and instrumentation, ultra-fast optics, optical materials, bio-medical optics and quantum technologies.



At the crossroads of photonics and agriculture at SPACE

SPACE, the international exhibition for animal farming, attracted 90,771 visitors including 12,125 international visitors in Rennes (Brittany, France). Among the 1,207 exhibitors, Photonics Bretagne was present on the collective stand of Innôzh and co-organized a visit of several booths with an agrophotonics thematic. This gave rise to several rewarding exchanges between photonics solution providers and equipment suppliers to the livestock industry (Dilepix, i2S, Asserva, Le Gouessant, Brücker, DIAFIR, Carnot AgriFood Transition). It was also the opportunity to introduce the PhotonHub Europe project.

MEMBERS NEWS

- **SILENTSYS SAS**, in collaboration with the Institut Foton (Université de Rennes, CNRS, France) and the SATT Ouest Valorisation, has started the industrialization of a new product: the SLIM LINER – UltraHigh Spectral Purity Laser Source. This technology, patented by the French University, enables an extremely low instantaneous linewidth, indeed as low as 40mHz! This laser source will be available early 2024 first at telecom wavelength.

- **Global deep-tech company Cailabs** opens an office in Washington DC to support the Department of Defense and US-based clients.

- **Lumibird** finalized an agreement with the Italian company Prima Industrie to acquire its subsidiary Convergent Photonics (Turin, Italy) and the Convergent assets of Prima Industrie North America (Boston, USA). This acquisition provides Lumibird with innovative solutions and autonomy in semiconductors and high-power fibre lasers, while opening up new markets.

AGENDA

- **Photonics PhD Days**
January 24-26, 2024, Lannion
(Brittany, France)

- **Photonics West**
January 27-February 1, 2024,
San-Francisco (USA)

Photonics PhD Days, 24-26 January, 2024 in Lannion: Registration opening

The Photonics PhD Days are co-organized by Photonics Bretagne, Anticipa, ENSSAT and Institut Foton. This three-day, fully English-speaking event, aims to bring together French and foreign PhD students, research centres and companies from the field of photonics, and to explore entrepreneurship. On the agenda: conferences, PhD pitches, PhD posters, a “PhD to Startup” workshop, 1-to-1 appointments with CEOs, networking, and visits to local industry and research facilities.



If you are a PhD student, come and pitch your PhD, then unlock your entrepreneurial potential with a case study (eight hours over two days) in friendly environment and idyllic surroundings facing the sea (Perros-Guirec, Brittany, France). Accommodation, food, and all local transfers are free of charge to PhD students participating to the workshop.

This event also gives the opportunity to companies or research centres to discover the latest scientific research in the field of photonics and meet their next potential partners or engineers!

In addition, thanks to the European Photonics4Industry project, Photonics Bretagne is happy to grant a 450€ travel voucher to assist eligible PhD students and SME representatives towards their travel expenses. An event not to be missed!

More information and registration: <https://www.photonics-bretagne.com/en/photonics-phd-days-24th-26th-january-2024/>

Laser innovation at the heart of PLI Conferences, in Brittany



This year, the annual event of the Club Laser et Procédés, PLI Conferences took place in Brittany, in Rennes, co-organized with Cailabs, Institut Maupertuis and Photonics Bretagne. This Breton edition brought together a record number of participants: more than 164 manufacturers, technology centres, end-users, and academics, coming from 13 different countries. They could attend 47 high-level talks about laser innovations, a round-table on traceability in the field of electric mobility, and visits of Institut Maupertuis, Cailabs and Photonics Bretagne (virtual visit). A programme punctuated by networking thanks to cocktails, a dinner, and the exhibition space.

170

It is the number of new students entering the first year of the engineering program of Institut d'Optique. To date, this is the largest intake of students ever, demonstrating the attractiveness and dynamism of our education program in Photonics.

CONTINUING EDUCATION AGENDA :

■ **SC12 - Optronic systems**
November 8 to 10 and
November 22 to 24, 2023

■ **CO₂IR - Optical design of infrared imaging systems with Zemax®-OpticStudio – Advanced**
November 13 to 15, 2023

■ **EF2 - Basics of optics**
November 14 to November 17 and November 28 to December 1st, 2023

■ **CO1 - Optical design with Zemax®-OpticStudio - Introduction**
November 21 to November 24, 2023

■ **EF1 - Optics without calculation**
December 5 to December 7, 2023

■ **CO₂VIS - Optical design with Zemax®- OpticStudio – Advanced**
December 12 to December 14, 2023

■ **SC13 - Low light level vision and photon counting imaging**
December 12 to December 14, 2023

■ **EF10 - Laser security training – Level 2**
December 13 to December 14, 2023

■ **EF11 - Laser security training – Level 3**
December 13 to December 15, 2023

CONTACT

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Celebrating science of light at Institut d'Optique

On the 7th and 8th of October, Institut d'Optique opened its doors to the general public as part of the Fête de la Science. More than 300 curious visitors had the opportunity to explore the sciences of light.



© Photo credits: ICGS

The Fête de la science is an annual event of science popularization. The aim of this national event is to promote science to the general public. It gives them the opportunity to discuss scientific subjects free of charge, in direct contact with those involved.

On the 7th and 8th of October, Institut d'Optique participated in this event, opening its doors and giving access to several activities to all kind of visitors.

People could visit quantum physics and non-linear optics experiments from Laboratoire Charles Fabry to discover the latest research in these fields. They could then grab a coffee and wander among experiments demonstrated by our students to learn more about lasers, vision, optical fibers, optical communications, thermal camera, UV light...

For the first year, an “archives corner” was showing old optics textbook from eighteenth to twentieth century, some of them annotated or signed by Charles Fabry himself.

To further their knowledge of quantum physics, visitors could attend a lecture on the foundations and history of quantum mechanics from Kamil Fadel (Palais de la découverte) or visit our “quantum entanglement” booth dedicated to Alain Aspect and its Nobel Prize in physics (2022).

Finally, they could have a soothing time with the Laserwave – the student’s laser show association of Institut d'Optique – showing its latest creations in the main lecture hall.

At the end of the week-end, visitors, young and old, were all smiles and could hardly stop asking questions... See you next year !



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CÉLIA PELLUET RECEIVES THE YOUNG TALENTS FRANCE 2023 AWARD FROM L'ORÉAL-UNESCO FOR WOMEN IN SCIENCE PROGRAM

The L'Oréal-UNESCO For Women in Science national and regional Young Talents Programmes support young women researchers around the world to pursue their scientific careers in their home countries or abroad.

In 2023, Célia Pelluet, alumni from Institut d'Optique and currently PhD student at LP2N (Laboratoire Photonique Numériques et Nanosciences), a joint research unit between Institut d'Optique, Université de Bordeaux and CNRS (the French national center for scientific research) is among the 35 laureates of the L'Oréal-UNESCO For Women in Science Young Talents France 2023 award.

Her research aims at testing the universality of free fall principle through precise and absolute inertial measurements using clouds of atoms trapped by lasers. This has led her to carry out experiments in a Zero-G aircraft that simulates weightlessness.

She is also very involved in actions to share science and research with the general public.

An inspiring model for young girls and women who want to embrace a career in science.

Minalogic welcomes its new Optics–Photonics Manager, Laetitia Schoutteten



After obtaining her doctorate in physics from École normale supérieure (ENS) Cachan, now ENS Paris-Saclay, Laetitia started her career as a member of the Unilever group in the United Kingdom. She then joined Pulsalys, the Technology Transfer Acceleration Company (SATT) in the Lyon–Saint-Étienne region, as the project manager of “investment, transfer, and incubation.” Enthusiastic, full of energy, and with a strong expertise in intellectual property, Laetitia is based at the Minalogic site in Saint-Étienne with the mission of animating the community of academic and industrial members in the photonics field and forging links with key players in the health market throughout the Auvergne-Rhône-Alpes region. In addition, she will provide support for members of Minalogic with missions proposed by the cluster as part of its International Development Plan.



Thematic workshop: “Machine Vision for Smart Manufacturing,” November 30 in Saint-Étienne

This workshop, proposed by the Minalogic and Cimes competitive clusters, with the support of the Saint-Étienne local community, will emphasize the

complementarity of technological and application aspects of machine vision and smart manufacturing via the combined perspectives of two communities of actors: those in photonics and those in mechanical engineering and manufacturing.

“**Smart manufacturing**,” or intelligent manufacturing, covers all solutions that make it possible to respond to challenges concerning the resilience of production systems, including mass customization, manufacturing on demand, and multisourcing. Numerous technologies can be used, including intelligent and/or connected machines, artificial intelligence, and decision-making tools, which help in competitiveness, reliability, and flexibility of productive industries (e.g., control of industrial processes, various types of machine perception, solution tracking in factories, and supervision).

Machine vision will be an essential element for automation, quality improvement, and process optimization in the factories of tomorrow. This may involve acquiring and exploiting images from visible, infrared, or terahertz radiation, or even magnetic or acoustic force imaging.

Offered to members of both the academic and industrial sectors, this event will make it possible to share existing practices and programs and to initiate collaborative projects.

Program:

- Opening keynote speech: State-of-the-art use of machine vision for smart manufacturing
- Expression of requirements: Interventions by manufacturers in search of technical solutions
- “Flash” presentations: Solution providers and integrators (industrial and academic)
- Presentation of success stories

To register: [https://www.minalogic.com/evenements/ vision-industrielle-pour-le-smart-manufacturing/](https://www.minalogic.com/evenements/vision-industrielle-pour-le-smart-manufacturing/)

Economic security is everyone’s business

The photonics sector is increasingly being confronted with cybersecurity risks. Such attacks have become both industrial and global, targeting all companies, regardless of their size, market visibility, or age. Hackers are mainly motivated by financial gain – blocking data to enable ransom demands– and by espionage or economic interference.

For more than 18 months, Minalogic has been offering a modular support program to meet these challenges, as well as to comply with the new standards that will soon be imposed by European regulations (e.g., DORA and NIS2). The offered program includes a system diagnostic and, importantly, provides management for subsequent required actions via an external chief information security officer (CISO). IT security is a complex domain for which Minalogic can provide your company with simple and practical support. Contact us to learn more!

AGENDA

- **Thematic workshop: “Machine Vision for Smart Manufacturing,”** November 30, 2023, Saint-Étienne, France
- **SPIE Photonics West 2023,** January 28–February 2, 2024, San Francisco, USA
- **Minalogic Business Meetings, international business meetings for digital technologies,** March 14, 2024, Saint-Étienne, France



CONTACT ME

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SPIE Astronomical join the French pavilion



The next SPIE Astronomical + Instrumentation exhibition will take place in Yokohama (Japan) from June 15 to 20, 2024. Photonics France is organizing a pavilion to bring together French participants at a preferential rate.

Each participant registering on our pavilion can benefit from a 15% discount on the registration fee. For further information, please contact us by mail (see below).

AGENDA

■ Business Meeting Special for ONERA

February, 2024 – Palaiseau

■ Photonics France General Assembly:

March, 2024 - Paris

■ Photonics for Agriculture:

May, 2024 – Rennes

■ SPIE Photonics Europe

April 7-11, 2024 - Strasbourg

■ SPIE Astronomical Telescopes + Instrumentation:

June 15-20, 2024

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

TO CONTACT
PHOTONICS FRANCE

contact@photonics-france.org
www.photonics-france.org

Save the date!

The next SPIE Photonics Europe will take place in Strasbourg from April 7 to 11, 2024.



Photonics France is partnering SPIE in the promotion and organization of the show, which will feature photonics conferences and an industrial exhibition. Don't miss this major photonics event, held in France but attended by a European audience.

Photonics21 Board of Stakeholders: support the French candidates!

The online election of the Photonics21 Board of Stakeholders (BoS) will take place between October 24 and November 7, 2023.

A total of 14 seats on the Board of Stakeholders are up for election.



Support the French candidates to defend the interests of the French photonics industry at European level:

- Laura Gemini (Alphanov)
- Isabelle Tovenà Pecault (Alpha-RLH)
- Arnaud Mussot (CNRS)
- Laetitia Schoutteten (Minalogic)

NEW MEMBER : Almae Technologies



Welcome to our new member: Almae Technologies.

Founded in 2016 as a spin-off from III-V Lab (a research lab shared by Nokia, Thales and CEA-Leti), Almae Technologies specializes in the research, production and sale of innovative photonic technologies for telecoms and datacoms.



THIERRY GEORGES, NEW PRESIDENT OF PHOTONICS FRANCE!

Thierry Georges, CEO of Oxsius, was appointed President of Photonics France on June 22, following the federation's Annual General Meeting. He replaces Thierry Dupoux, Director of Innovation at Safran, who becomes Vice-Chairman representing the industrial college.



Make it EPIC!

Driving Competitiveness of
European Photonics Industry
with an International Network

ALPHA-RLH supports European projects in the Japanese market



ALPHA-RLH is willing to support European projects in their international development. Our delegate for the Japan, South Korea and Singapore Mission, Romain Montini, located in Tokyo, is now assisting the European project ADMANTEX2i in the preparation for a delegation coming in March 2024 in Japan.

He needs to establish contacts with local stakeholders or follow up on contacts already made by Admantex2i in textile and advanced manufacturing area in Japan.

He aims to:

- ensure visits to associations and Japanese companies in Tokyo
- schedule individual B2B meetings for the visitors in Tokyo or Aichi
- act as local supporting contact with Smart Manufacturing Summit organizers for all the interactions needed
- organize 1 or 2 potential visits of interest for the textile companies in Aichi prefecture
- identify translators (English to Japanese and vice versa) to be hired directly by the participants.

UPCOMING INTERNATIONAL EVENTS

■ **Photonics West 2024**
 January 30 - February 1, 2024
 in San Francisco (USA)

A strong presence for the cluster and its members at Laser World of Photonics Munich

The trade fair welcomed 40,000 visitors and 1300 exhibitors from June 26 to 29, 2023.

ALPHA-RLH and its members were present on the French Pavilion coordinated by Business France. It was the largest delegation among the French photonics clusters, with 15 members exhibiting their technologies: ALPhANOV, ARDOP Industrie, BLOOM Lasers, CILAS, Clavis, Femto Easy, First Light Imaging, GLOphotonics, IDIL Fibres Optiques, Le Verre Fluoré, Leukos, Mathym, Photonics Bretagne, Silentsys and Spark Lasers.

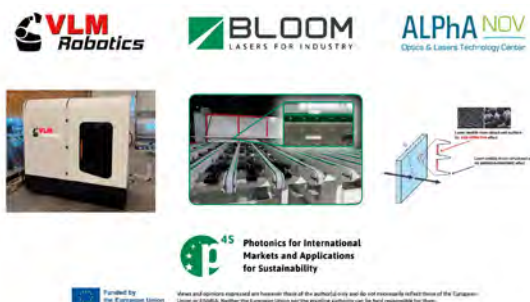


Our member AUREA Technology presented its quantum optics instruments in the "World of QUANTUM" hall. The NAQUIDIS Center, an innovation center dedicated to quantum technologies in which ALPHA-RLH is a partner, was also an exhibitor.

The exhibition also enabled the cluster to:

- promote the European NewSkin project in the field of surface nanotechnologies,
- establish contacts with the Lithuanian laser micromachining cluster Toolas, which led to the signing of a Memorandum of Understanding, with the aim of fostering opportunities for collaboration between members of the 2 clusters.

PIMAP4SUSTAINABILITY HAS FUNDED ITS 13 INNOVATION PROJECTS



Over the past year, the Eurocluster project PIMAP4Sustainability, which aims to improve the sustainability of SMEs specializing in photonics, advanced materials and advanced manufacturing, has launched its call for innovation projects. During its opening phase, the call received almost 40 project proposals from SMEs in 16 different European countries.

After the selection process, the partners chose the 13 best collaborative projects to fund, helping them with a grant of 60,000 euros per project to develop their innovation. Of these 13 projects, three ALPHA-RLH members were selected: VLM Robotics, BLOOM Lasers and ALPhANOV. All these projects started in September 2023 and will help SMEs improve their economic and ecological sustainability by developing new products or services and new innovations in business processes.