AGENDA

■ **Lithium Niobate**
The Houches Physics School, France

12 - 23 May 2025

Limited to 70 attendees

■ **LIDAR**
June 15-20, 2025

OHP, Observatoire de Haute Provence, France

Limited to 40 attendees

■ **JNOG Montpellier 2025**
Sète

07 - 10 July 2025

+ 200 participants expected

■ **OPTIQUE BFC 2026**
Dijon - Palais des congrès

06 - 10 july 2026

+ 670 participants expected

SFO - THEMATIC SCHOOL 2025

In 2025, the French Optical Society reaffirms its commitment to the dissemination of knowledge in optics and photonics through the organization of two high-level thematic schools, showcasing the diversity of our community: The very first international school on the flourishing field of integrated lithium-niobate thin-film photonics in the prestigious site of Les Houches and the second edition of a thematic school on LIDAR with dedicated practical work at the Haute-Provence Observatory.

Lithium niobate on insulator integrated photonics from fabrication to classical and quantum applications

Registration is now open for this school—join our experts!

The Houches Physics School, France, May 12 to 23 – 2025

The workshop is dedicated to bring leaders in integrated photonics platform of Lithium Niobate On Insulator (LNOI) together with the aim of providing an overview on the advances that have been achieved over the last years, use this overview to speculate about future opportunities of LNOI and provide recommendations on how these opportunities can be realized by coordinated research efforts.

Lecturers

- Cristina BENEA-CHELMUS, EPFL, Switzerland
- Jean BERNEY / Davide GRASSANI, CSEM : Centre suisse d'électronique et de microtechnique, Switzerland
- Ya CHENG, SIOM : Shanghai Institute of Optics and Fine Mechanics, China
- Nadège COURJAL, FEMTO-ST, France
- Aaron DANNER, National University of Singapore, Singapore
- Martin FEJER, Stanford University, USA
- Katia GALLO, KTH, Sweden
- Tobias GEHRIN, DTU : Technical university of Denmark, Denmark
- Tobias KIPPENBERG, EPFL, Switzerland
- Bart KUYKEN, Gent Univ., Belgium
- Francesco LENZINI, CNR-IFN, Italy
- Marko LONCAR, Harvard University, USA
- Amir SAFAVI, Stanford University, USA

The scientific program committee

- **Kamel BENCHEIKH** (C2N, University Paris Saclay – CNRS, France)
- **Andreas BOES** (The University of Adelaide, Australia)
- **Rachel GRANGE** (ETH Zurich, Switzerland)
- **Arnan MITCHELL** (RMIT University, Australia)

Lidars: from fundamentals to geophysics and industrial applications

Organized by the Club LIDAR
OHP, Observatoire de Haute Provence, France, June 15 – 20 2025

The Summer School **"LIDARS: From Fundamentals to Geophysics and Industrial Applications"** is dedicated to Master students, PhD students, young researchers and engineers who want to acquire theoretical and technical know-how on Lidar systems from experts in the Lidar community.
We look forward to welcoming you to OHP from June 15 to 20, 2025!

Lecturers

- **Nicolas CEZARD**, ONERA/DOTA, Université de Toulouse
- **Sandrine GALTIER**, Institut Lumière Matière (ILM), CNRS, Université de Lyon
- **Alain MIFFRE**, Institut Lumière Matière (ILM), CNRS, Université de Lyon
- **Fabien GIBERT**, Laboratoire de Météorologie Dynamique (LMD), CNRS, Ecole Polytechnique, Palaiseau
- **Romain CEOLATO**, ONERA/DOTA, Université de Toulouse
- **Alain DABAS**, Centre National de Recherches Météorologiques (Météo-France/ CNRS), Toulouse
- **Philippe KECKHUT**, LATMOS/IPSL, UVSQ Université Paris-Saclay, Sorbonne Université, CNRS, Guyancourt
- **Laurent LOMBARD**, ONERA/DOTA, Université Paris-Saclay, Palaiseau
- **Patrick FENEYROU**, Thales Research & Technology France, Palaiseau
- **Hervé DELBARRE**, Laboratoire de Physique et Chimie Atmosphériques (LPCA), Université du Littoral Côte d'Opale, Dunkerque
- **Myriam RAYBAUT**, ONERA, Palaiseau
- **Jean-Baptiste DHERBECOURT**, ONERA, Palaiseau
- **Stéphane VICTORI**, CIMEL, Paris
- **Julien TOTEMS**, LSCE, Gif-sur-Yvette

JEOS-RP: the European Optical Society at the service of authors and readers of the photonics community

The Journal of the European Optical Society-Rapid Publications, JEOS-RP, is an open-access journal wholly owned by the European Optical Society. EOS is thus fully responsible for its scientific policy and quality.
To better meet the needs of our scientific community, both authors and readers, five learned societies, from Spain (SEDOPTICA), Italy (SIOF), Germany (DGaO), Portugal (SPOF), and Belgium (PromOptica), have now joined the EOS. Together, significant improvements have been achieved over the past year:
Over 2023, the median time from submission to online with DOI fell below 73 days.
The impact factor now reaches 1.9.
And the author publication fees remain at a very fair level with a large discount for EOS members.
JEOS-RP covers all the fields of photonics, and gives further focus on specific areas through its topical issues, the next of which is entitled "Using wavefronts: detection and processing".
Discover how you can give high visibility to your research work by publishing in JEOS- RP: https://jeos.edpsciences.org/.

CONGRATULATIONS TO THE WINNERS 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 2024 Prize was awarded to the paper titled: "Terahertz nondestructive stratigraphic recon- struction of paper stacks based on adaptive sparse deconvolution", By Min Zhai, Alexandre Locquet, and David S. Citrin, J. Eur. Opt. Society-Rapid Publ. 2024, 20, 4.

Enjoy your reading at:

Alexandre Locquet (right) receiving the EOS Prize from Gilles Pauliat, the EOS Past-President (left), on behalf of his co-authors prior to his plenary presentation at the EOS 2024 Prize Ceremony at the EOS Annual Meeting in Naples, Italy.

125th anniversary of IOP Optical Group

The IOP Optical Group, as the UK & Ireland Branch of the European Optical Society, EOS, seeks to engage the Optics and Photonics community both nationally and internationally. Its core motivation is to be an effective medium of exchange on issues that impact the technical and cultural aspects of human endeavour.
https://iop.org/

Optics and Photonics Days Finland 2025

Annual Meeting of Photonics Finland, OPD2025, will be held at Oulu Music Center 3 – 5 June 2025, Oulu, Finland.

DGaO 126th Annual Meeting in Germany

Annual Meeting of DGaO will take place from 10 to 14 June 2025 at the University of Stuttgart, Germany.

EOSAM 2025 moves to the picturesque Delft

Each year, EOS organizes its Annual Meeting in different locations across Europe, making each EOSAM a unique event. In 2025 EOSAM moves to the idyllic city of Delft and is co- organized with The Delft University of Technology, TU Delft. Around 500 attendees from all over the world are expected, for presenting their most recent results, networking and catching up. Sessions will also be organized to facilitate connections among industrial and research communities along with an industrial exhibition.

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Inauguration of the 503,
center for entrepreneurship and innovation of Institut d'Optique

Tuesday, October 1st marked a magical moment for Institut d'Optique: after two years of renovation work financed by the French government, the Region Ile-de-France and the Département de l'Essonne, the 503 was inaugurated on a memorable day.

© photo credits : Corinne Hameau

After the famous ribbon-cutting ceremony, the 300 participants - academic, industrial and institutional partners of the 503 and the Institut d'Optique - enjoyed a rich and varied program.
Institut d'Optique's new Innovation Department - Audrey Durand, Johan Boullet, David-Olivier Bouchez - led a series of lectures and round tables on sourcing innovation in labs, student entrepreneurship, investment, collaborative research, innovation in large industrial groups...
During the breaks, the public could stroll through the Photonics and Innovation Village, which showcased representatives of the photonics industry and the innovation ecosystem. Participants also enjoyed a photo exhibition, created especially for the occasion, combining archive photos of the 503 before renovation with photos of the renovation worksite. Throughout the afternoon, tours of the building were offered to meet companies, students from the Filière Innovation-Entrepreneurs and to (re)discover the Photonic Fablab. The day ended with a convivial cocktail reception.
While retaining a link with its scientific history and its expertise in training and transfer to industry, Building 503 has been transformed to provide a showcase for the ambitious vision of innovation espoused by the Institut d'Optique.
This day marks the beginning of a new era for Institut d'Optique, and many exciting projects are already in the pipeline at 503.

INAUGURATION OF THE ALAIN ASPECT AMPHITHEATRE

© Photo credits: Daniel Madac

Annie and Alain Aspect in the "Amphithéâtre Alain Aspect" of the 503.

During the inauguration of the 503, the building's amphitheatre was named "Amphithéâtre Alain Aspect"!
Rémi Carminati, General Manager of Institut d'Optique, in the presence of Alain Aspect, laureate of the 2022 Nobel Prize in Physics, proudly unveiled to the public the inscription permanently installed in the amphitheatre (see photo). With emotion, Alain Aspect recalled the period during which he carried out his research in this building, and in particular, the day he defended his « Thèse d'Etat » in 1983 in the amphitheatre that now bears his name.

In brief

Congratulations to Léa Dubois, former PhD students at Laboratoire Charles Fabry (Institut d'Optique / Université Paris-Saclay / CNRS), who is one of the 35 laureates of the 2024 L'Oréal-UNESCO For Women in Science Young Talents Award ! In her PhD, Léa studied "Non-equilibrium dynamics of a 1D Boson gas », focusing on the study of ultra-cold atoms.

CONTINUING EDUCATION AGENDA :

- **CO1 - Optical design of imaging systems with Zemax® / OpticStudio – Introduction**
November 19 to November 22, 2024
- **EF1 - Optics without calculation**
December 3 to December 5, 2024
- **CO2VIS - Optical design of visibe imaging systems with Zemax®/OpticStudio - Advanced**
December 16 to December 18, 2024
- **SC2 - Optical manufacturing and optical metrology**
March 4 to March 6, 2025
- **EF2 - Basics of optics**
March 11 to March 14, 2025 and March 25 to March 28, 2025
- **SC7 - Wavefront sensing**
March 20 to March 21, 2025

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PIMAP4Sustainability project
is coming to an end

The PIMAP4Sustainability Eurocluster-project which aimed to support SMEs in the photonics value chain to innovate and develop new projects is drawing to a close.

Coordinated by ALPHA-RLH, the project distributed €1,050,000 to 70 European SMEs through 13 innovation projects, 36 training projects and 8 financial supports for SMEs wishing to participate in the international mission to Japan that took place in Tokyo in June 2024.

Several ALPHA-RLH members directly benefited from these support tools: ALPhANOV, BLOOM Lasers, Canoe, Emulseo, GLOphotonics, Polyrise and VLM Robotics.
The PIMAP4Sustainability consortium is now fully engaged in finalizing the last administrative elements of the project and is already looking ahead to the next Eurocluster-call to continue supporting the photonics value chain!

SOTER:
TOWARDS ENHANCING VISITOR EXPERIENCE AND IMPROVING SAFETY AT FESTIVALS

SOTER is a multidisciplinary project funded by the European Union, aiming to transform the experience of visitors at music festivals and large gatherings.

The project brings together experts in computer vision/AI from IkanoVision, Prime Cognition World providing gamification expertise and the Motocultor association organising the renowned music festival in France.
The consortium is dedicated to building technology for analysing the presence and movement of crowds and identifying behaviours of interest. These insights are leveraged by means of a gamified solution for visitors and can be used to improve safety. Notable examples include the presence and ambience detected at stages and waiting times in queues. The ambition of SOTER is to build technology that can be adapted to audiences at trade shows, exhibitions…
The technology is developed using crowd data collected from cameras deployed at the 2024 edition of the Motocultor festival.
SOTER pursues its international expansion and participated in the Tokyo Game Show 2024, as part of a learning expedition in Japan organised by ALPHA-RLH.
This project has indirectly received funding from the European Innovation Council and EISMEA, European Commission COSME-SMP-2021- CLUSTER. FRIEND CCI PROJECT.

Pôles de compétitivité and European clusters gathered in Strasbourg, France

ALPHA-RLH took part in the C2Lab event in Strasbourg on 25-26 September 2024, organised by the European Cluster Collaboration Platform (ECCP), in collaboration with the Association Française des Pôles de Compétitivité (AFPC).
The C2Lab interactive workshops provided an opportunity to meet new partners, discuss project ideas and initiate collaboration between European clusters on various topics: meta clustering, interregional investments, mobility, health and construction.
AFPC organised 2 parallel events during these two days:
- **The AFPC annual Europe Committee with all the Pôles de Compétitivité,**

- **The « Pôles pour l'Europe » awards ceremony. These awards aim to illustrate the commitment, creativity and contribution of French Pôles de Compétitivité to Europe and reward the best European initiatives. ALPHA-RLH was nominated in the "Best collaborative initiative" category for the NewSkin project, dedicated to surface nanotechnologies.**

UPCOMING INTERNATIONAL EVENT

- **Photonics West 2025**
January 28-30, 2025 in San Francisco (USA)

News in Brief

- **25 new master students** have joined NANO-PHOT in September
- **NANO-PHOT attended the "forum des Entreprises UTT"** https://www.utt.fr/actualites/forum-utt-entreprises-126-entreprises-a-la-rencontre-des-etudiants-et-diplomes-de-lutt
- **NANO-PHOT** is a new member of Photonics France (https://www.photonics-france.org/)

Within the context of NANO-PHOT, a 21-page review article has been published in ACS Photonics on hybrid plasmonic nanosystems based on strong and weak coupling: https://lnkd.in/ezf9ZjHz. The first author, Minyu Chen is a NANO-PHOT PhD student who will soon defend her thesis and look for a good postdoc in nanophotonics from January 2025.We hope this review will be useful to members of the nanophotonics community (researchers, professors, students, engineers, technicians,.) who are interested in hybrid plasmonic nano-emitters and nano-absorbers.

AGENDA

- **Conference NFO17**
  2-6 Dec., Melbourne, Australia
  https://aipcongress2024.com/nfo-17/
- **Conference SPP11**
  19-23 May, Tokyo, Japan
  https://spp11.tokyo/

CONTACT

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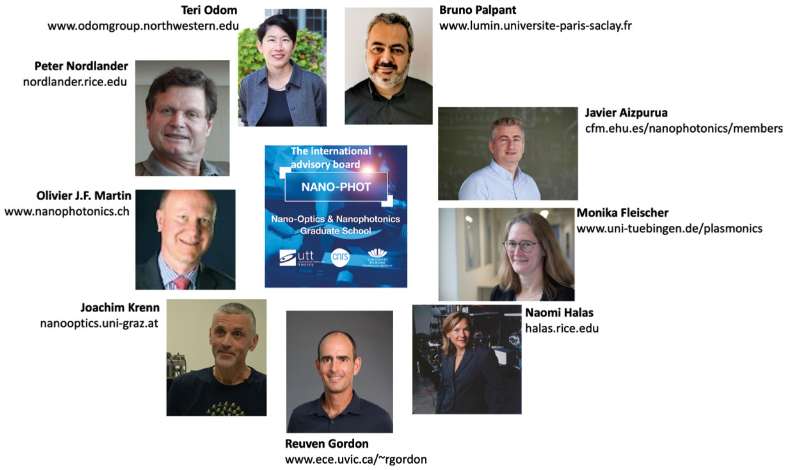
Presentation of the international advisory board (IAB) of the NANO-PHOT graduate school

Nine world-class scientists help our graduate school to become better



Javier Aizpurua, Ikerbasque Professor at Donostia International Physics Center in San Sebastian, and distinguished researcher at the University of the Basque Country, where he leads the "Theory of Nanophotonics Group". He addresses theoretical aspects of light-matter interaction at the nanoscale focusing on quantum effects on nanostructures.

Monika Fleischer, Professor at the Institute for Applied Physics of Eberhard Karls University of Tübingen. She serves on the board of directors at the Center for Light-Matter-Interaction, Sensors and Analytics. Her research focuses on nanofabrication and optical spectroscopy of hybrid nanoantenna configurations.

Reuven Gordon, Professor at University of Victoria. He is a leader in nanoaperture optical tweezers, particularly for the label-free analysis of single proteins. He is Fellow of IEEE, SPIE and Optica, Deputy Editor for Optics Express and has served as chair for SPIE Nanoscience and Engineering, NFO16 and the inaugural Gordon Research Conference on Label-Free Single Molecule Sensing.

Naomi Halas, Professor at Rice University. She pursues fundamental studies of light-nanoparticle interactions and applications in (e.g) biomedicine, photocatalysis, and solar water treatment. She is a member of the National Academies of Sciences and the Engineering (USA), and member of the Royal Danish Academy of Sciences and Letters.

Joachim R. Krenn, Professor at the University of Graz. He works on the experimental research of optical phenomena on the nanoscale, including plasmonics, single quantum emitters and nanofabrication.

Olivier J.F. Martin, Professor at the Ecole Polytechnique Fédérale de Lausanne, where he conducts comprehensive research on numerical techniques for the solution of Maxwell's equations with advanced nanofabrication and experiments on plasmonic systems. Applications include optical antennas, metasurfaces, nonlinear optics, security features and optical forces at the nanoscale.

Peter Nordlander, Professor and Wiess Chair of Natural Sciences at Rice University. His research is focused on the theoretical modeling of plasmonics and nanophotonics phenomena. He is the recipient of the 2013 Willis E. Lamb Award, the 2014 Frank Isakson Prize, the 2015 R. W. Wood Prize, and the 2022 Eni Energy Transition Prize.

Teri W. Odom, Joan Husting Madden and William H. Madden, Jr. Professor of Chemistry at Northwestern University. She is an expert in structured nanoscale materials that exhibit extraordinary optical and physical properties. She is a Member of the US National Academy of Sciences and is Editor-in-Chief of Nano Letters.

Bruno Palpant, Professor at CentraleSupélec, University Paris-Saclay, France. He works on optical properties of plasmonic nano-objects in interaction with ultrashort laser pulses. His multidisciplinary projects lead to application for (e.g.) new functional materials and photonic and biomedical technologies.

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NEW MEMBERS

Welcome to our new members:

CFA des Sciences is an apprentice training center within Sorbonne University, offering 20 university apprenticeships from Bac+2 to Bac+5.

NANO-PHOT Graduate School is developing a nanophotonics program for Masters and PhD students, with a focus on teaching and research.

Join Photonics France and benefit from a wide range of services to help you develop your professional network and activities. It also means contributing to the strong representation of the French photonics industry in dealings with public authorities.

AGENDA

- **Optical metrology and control**
  (with cluster Alpha-RLH)
  November 13-14 – Bordeaux
- **Photonics Forum**
  (with students of Institut d'Optique Graduate School)
  November 14 - Orsay
- **Business Meeting Photonics with CNRS**
  November 22 - Paris
- **SPIE Photonics West**
  January 25-30, 2025
  San Francisco

TO CONTACT
PHOTONICS FRANCE

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www.photonics-france.org

Business Meeting: Photonics with CNRS

Photonics France and the National Center of Scientific Research (CNRS) organize a business meeting on November 22 at CNRS headquarters in Paris.

The CNRS draws on more than 80 years of research to foster innovation in science and meet contemporary challenges.

This day will be an opportunity to discover CNRS research on light and optics, from the emitting source to the final sensor. Find out about the latest innovations and meet key players in the sector.

Programme:

- Conferences: five scientists will share their research and partnership opportunities.
- Laboratory testimonials: feedback from Amplitude about its partnership with CNRS.
- Networking: workshops to exchange ideas with CNRS, other participants, and initiate new collaborations.

More details and registration on our website: photonics-france.org

PHOTONICS FRANCE
HELPS ITS MEMBERS WITH EXPORT CONTROL

Photonics France supports its members in their economic development at national and European level. The federation establishes lasting links with public institutions, particularly in the case of exports of dual-use goods.

Export controls for photonics technologies generate issues for many companies, whose products are often qualified as dual-use goods (civil and military). To clarify export controls for its member companies, the federation offers advanced training courses in collaboration with the Dual-use goods service (SBDU) and customs. The latest course took place on October 10 at SBDU headquarters.

Photonics France also organizes technical meetings with the SBDU and the European Commission's export control team to enable Photonics France members to be better informed about current regulations and adapt their export strategies.

ECOC Exhibition:
a Showcase for Optical Communications

From September 23 to 25, 2024, the ECOC Exhibition in Frankfurt brought together leading companies and experts in optical communications. Photonics Bretagne showcased their cutting-edge optical fibre solutions. We highlighted our range of specialty optical fibres, including hollow core, multicore, and the new bismuth-doped fibres, as well as our offer of tailored solutions for various applications. Photonics Bretagne also fostered collaborations across Europe, pointing out the potential for photonics innovation projects to benefit from funding with Photon Hub Europe. Our members were well-represented, with companies such as Orange Lannion, Ekinops, BKTEL Photonics, EXFO, OptoSigma, and Tematys contributing to a dynamic and forward-looking showcase of french capabilities.

Photonics Bretagne at SPACE 2024: Advancing Precision Agriculture and Animal Well-Being

Photonics Bretagne presented its innovative photonic solutions at the SPACE exhibition in Rennes, a leading event for agriculture and livestock professionals. Located at the INNOZH stand, the team showcased how photonics technologies can make farming more precise and sustainable. A highlight of the event was the thematic visit “Data at the Service of Precision Livestock Farming”, co-organized with Images & Réseaux. This session attracted over a dozen participants, who explored how data can transform livestock farming, namely to enhance performance and animal well-being. The group visited key industry stands: itk, PIC Sensors France, iOtee, Anses, AIHERD, and Adventiel. Photonics Bretagne also presented funding opportunities from Photon Hub Europe with subsidies of up to 85%, encouraging the integration of photonics into agriculture. This event further solidified the role of Photonics Bretagne in promoting the vast potential of photonics in agricultural innovation.

KWAN-TEK SIGNS A PARTNERSHIP
TO ADVANCE QUANTUM METROLOGY

After raising 1.2 m€, Kwan-Tek signs a strategic partnership with HiQuTe Diamond to develop quantum metrology solutions for industry and research, strengthening Europe's diamond-based quantum sensor ecosystem. HiQuTe Diamond will supply state-of-the-art, quantum grade diamond doped with Nitrogen Vacancy centres for integration by Kwan-Tek in demanding products for Education, Research and Industry applications. Kwan-Tek will provide its expertise and services in the characterization of the quantum properties of diamond for quantum sensing, helping to establish standards for CVD diamond qualification. This collaboration will accelerate innovation in quantum metrology and combine the strengths of both companies.

Photon Lines Launches New Imaging Brand "eye4you"

eye4you
ADVANCED IMAGING TECHNOLOGY

Designed to open up new perspectives in image acquisition and processing, eye4you offers a cutting-edge range of imaging benches and platforms for academic research and a variety of industrial applications. This new launch reflects Photon Lines' commitment to providing high-quality solutions tailored to the demands of imaging, with four first technologies:

- **eyeMOTION:** a universal image acquisition and processing software, compatible with a wide range of cameras.
- **eyeSTREAM:** a platform based on eyeMOTION, which enables several cameras to be used simultaneously, parameterised and synchronised with a very high degree of precision.
- **eyePIV:** an eyeMOTION plug-in for instantly calculating 2D2C velocity fields in real time or in post-processing from flow images.
- **eyeSPICE:** a spectral imaging software platform with total and intuitive control over spectral imaging cameras and acquired data.

AGENDA

- **SPIE Photonics West**
  January 25-30, 2025, San Francisco (United States)
- **OFC**
  April 1-3, 2025, San Francisco (United States)
- **Laser World of Photonics**
  June 24-27, 2025, Munich (Germany)