

# **SPEAKER'S DIRECTORY**

**2<sup>nd</sup> Photonics TALENT Summer School**



## SPEAKER'S DIRECTORY



### **CLEMENT David - Institut d'Optique - Charles Fabry laboratory**

**Specialities :** *Laser-cooled ultra-cold atoms*

After completing his doctoral thesis on the Anderson localisation of matter waves under the supervision of Alain Aspect, David Clément spent a long post-doctoral period in Massimo Inguscio's group in Italy studying the physics of one-dimensional Bose gases. Following his recruitment as a teacher-researcher at the Institut d'Optique, he began a new experimental activity in the Quantum Gases group. His team is probing, atom by atom, the properties of correlated quantum systems synthesised with ultra-cold atoms of metastable helium.

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### **COMBY Antoine - AMPLITUDE**

**Specialities :** *Intense and ultrafast laser-matter interactions*

Antoine Comby is a laser R&D engineer at Amplitude Laser. He is a specialist in intense and ultrafast laser-matter interactions, either to shape light or to probe matter.

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### **DELOISON Florent - ILASIS**

**Specialities :** *Medical laser*

Specializing in laser-tissue interactions for 15 years, Florent DELOISON has developed several new surgical procedures and techniques, particularly in Ophthalmology. In 2019, he founded Ilasis and developed the first fibered-delivery femtosecond laser for cataract surgery, now marketed in Europe.

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### **FREYSZ Valérian - ALPhANOV**

**Specialities :** *Ultrafast laser metrology*

After a PhD thesis on the modeling of a solar gasifier and heterogeneous phase, Valérian did a 4-year postdoc on the design of parametric systems and femtosecond pulsed lasers in the near infrared. He joined ALPhANOV in 2021 where he develops femtosecond lasers, mainly around 1.5 $\mu$ m.

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### **GUIRAUD Germain - TOPTICA FRANCE**

**Specialities :** *Fiber Laser, Low Noise, High-Power*

Guiraud Germain is specialized in continuous wave (CW), single-frequency, high power and low noise all-fiber lasers at exotic wavelengths from infrared to visible with a high expertise on noise mechanism (both intensity and phase noise) in high power fiber amplifier (up to 350 W) and in second harmonic generation (SHG). He is leading research and development (R&D) department for TOPTICA France (TFR) - formerly Azurlight Systems. He is also leading the common research laboratory between LP2N and TFR called Starlight+ for anticipating new technological challenges of tomorrow with CNRS researchers.

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### **HILDENBRAND-DHOLLANDE Anne - French-German Research Institute of Saint-Louis (ISL)**

**Specialities :** *High-power infrared laser sources: 2  $\mu$ m fiber lasers, non-linear conversion to mid-infrared*

Dr. Anne Hildenbrand-Dhollande obtained her Master of science and engineering degree in Physics specialized in Optics in 2005 from the Ecole Centrale Marseille, France. In 2008, she passed her PhD thesis in Photonics on laser-induced damage in nonlinear optical crystals at the Fresnel Institute in Marseille, France. Since 2008, she performs research & development on infrared laser sources for defense applications at the French-German Research Institute of Saint-Louis (ISL), France. Since 2018, she is the leader of the laser development group at ISL, constituted now of 20 scientists. Additionally, she is a French government representative on mid-infrared laser sources and nonlinear conversion for the NATO research task group (NATO SET 224). She recently joined the scientific committee of the Fiber Lasers XXII: Technology and Systems conference of the SPIE Photonics West congress.

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### HUSS Guillaume - LEUKOS

**Specialities :** *Lasers*

Guillaume Huss is co-founder of LEUKOS, a company specializing in supercontinuum lasers, Nd:YAG microlasers and ultra-short mid-infrared lasers. The company is the result of a technology transfer from the University of Limoges. LEUKOS designs, markets and ships its products worldwide. Based in Limoges, LEUKOS employs 25 people and has been part of the EXAIL group since the end of 2024.

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### LAFARGUE Léa - EXAIL

**Specialities :** *Fiber laser systems*

Next to her fundamental physics master graduation at Bordeaux University, Léa Lafargue received her doctorate from Lille University in association with CEA CESTA for her work on laser system development based on parametric amplification technic for the injection of high-energy laser front-end. Recently she joined EXAIL Quantum Sensor Department, as part of R&D laser system engineering for optical quantum application.

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### LETAN Amélie - AMPLITUDE

**Specialities :** *Femtosecond lasers and applications*

Graduated in 2010-2011 from the Bordeaux Master's program in Lasers and Processes, Amélie have been working at Amplitude for 14 years. Since the start of her career at Amplitude, she has worked in various teams, from R&D to sales. She recently returned to the technical teams as Product Manager and Program Manager. Her area of expertise is femtosecond lasers and their applications.

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### MANEK-HÖNNINGER Inka - University of Bordeaux / CELIA

**Specialities :** *Laser-matter interaction*

Inka Manek-Hönniger obtained her Ph.D. in Physics from the University of Heidelberg, Germany, in 1999. She worked four years in German industry and is now full professor at the University of Bordeaux in France where she leads the Short-pulse Lasers: Applications and Materials (SLAM) group. Her research focuses on ultrafast laser – matter interaction for micromachining and materials modification.

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### **ROYON Romain - IRISIÔME**

**Specialities :** *Development of laser devices for dermato-aesthetic applications*

Romain Royon is the founder of Irisiome, a company specializing in the development of laser devices for dermato-aesthetic applications. Holding a PhD in physics, his research has focused on lasers and their applications, particularly in dermatology. After several postdoctoral contracts and training in finance and management, he decided to create his own company to bring innovative solutions to the field of laser-based dermatological treatments. This year, Irisiome celebrates its 10th anniversary, marking a decade of innovation and excellence in laser technology.

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### **TURCONI Margherita - ARTEMIS Laboratory**

**Specialities :** *Optics, lasers and laser stabilization*

Specialized in optics since her PhD, Margherita's research topics have been nonlinear dynamics and lasers. After a PhD on spatio-temporal dynamics in semiconductor lasers (INPHYNI, Nice), a postdoc on the set-up of the high-power pre-stabilized laser source for Virgo (Artemis, Nice 2013-2015) and a postdoc on attosecond pulse generation (LIDYL, CEA Saclay), Margherita has joined the Virgo team again since September 2018 within the Artemis laboratory as an associate professor at Unica (Université Côte d'Azur).

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### **SARACENO Clara - Ruhr University Bochum - Germany**

**Specialities :** *High-power ultrafast lasers, Terahertz generation*

Clara Saraceno was born in 1983 in Argentina. In 2007 she completed a Diploma in Engineering and an MSc at the Institut d'Optique Graduate School, Paris. She completed a PhD in Physics at ETH Zürich in 2012 in the group of Prof. Ursula Keller, where she carried out research on ultrafast disk lasers. She received the ETH Medal for her PhD thesis and the European Physical Society (Quantum Electronics and Optics Division) thesis prize in applied aspects in 2013. From 2013-2014, she worked as a Postdoctoral Fellow at the University of Neuchâtel and ETH Zürich, followed by a postdoc position from 2015 – 2016 at ETH Zürich. In 2016, she received a Sofja Kovalevskaja Award of the Alexander von Humboldt Foundation and became Associate Professor of Photonics and Ultrafast Science in the Electrical Engineering Faculty at the Ruhr University Bochum, Germany. In 2018 she received an ERC Starting Grant and in 2024 an ERC Consolidator Grant. She is a Fellow of Optica in the class of 2022. Since 2020, she is a full professor at the Ruhr University in Bochum and her current main research topics of her group include high-power ultrafast lasers and Terahertz science and technology.

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# Poster Session Jury

## CHAIR OF THE POSTER SESSION



**MOTTAY Eric - h-nu**

**Specialities :** *Laser, AI*

Eric Mottay graduated from Institut d'Optique in Paris, is the founder of Amplitude, a leading manufacturer of ultrafast lasers, and the current president of h-nu, focussing on photonics and AI for laser processing. He is passionate about laser technology and applications development and believes that sound engineering and collaborations are the key to success in photonics.

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### **CASTAING Marc - ALPhANOV**

**Specialities :** *Laser technologies, fiber laser and fiber based components*

Marc Castaing, PhD, is a laser technology expert. He manages the «Laser Sources and Components» unit at ALPhANOV. With over a decade of experience, he has held roles in R&D, industrialization, and sales management across firms like Lumera, ALS and Thales.

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### **DURAND Magali - AMPLITUDE**

**Specialities :** *Laser technology, Non-linear Optics, Filamentation*

Graduated in 2008 from engineering school in Strasbourg with specialty in Photonics, Magali then obtained her PhD from Ecole Polytechnique where she researched laser filaments interaction. She worked for two years as a postdoctoral graduate in UCF faculty to continue her study of laser filamentation and since 2013 has been working in Amplitude; first to develop new laser sources in R&D and then to drive the development as a Program Manager.

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### **FULOP Ludovic - EXAIL**

**Specialities :** *Optics*

Graduated from INSA (National Institute for Applied Science), Ludovic Fulop received his doctorate from University of Grenoble for his work on Miniaturized Optical Parametric Oscillators in CEA / Leti group in 1998. He has acquired a solid industrial experience in the field of high-technology business while working for Photonetics / NetTest, in the field of DWDM optical communication systems. He left his position in 2003 to create Kylia, a start-up working on optical components and systems for the field of optical fibre telecommunications, metrology, and space applications. In 2021, Kylia was acquired by iXblue. Ludovic is now director of the Integrated Systems activity of Exail, which acquired iXblue in 2022.

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### **LOPEZ John - University of Bordeaux / CELIA**

**Specialities :** *Laser material microprocessing*

J. Lopez is currently working as a CNRS senior research engineer in a public institute in the University of Bordeaux (CELIA). He is known worldwide as an expert in laser ablation and laser micro-machining.

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### **MANEK-HÖNNINGER Inka - University of Bordeaux / CELIA**

**Specialities :** *Laser-matter interaction*

Inka Manek-Hönninger obtained her Ph.D. in Physics from the University of Heidelberg, Germany, in 1999. She worked four years in German industry and is now full professor at the University of Bordeaux in France where she leads the Short-pulse Lasers: Applications and Materials (SLAM) group. Her research focuses on ultrafast laser – matter interaction for micromachining and materials modification.

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