



To Photonics21Secretariat
via eMail: secretariat@photonics21.org

Dear Photonics21 Secretariat

We herewith submit the nomination of the following Photonics21 Board of Stakeholders candidate
ALPhANOV / Laura Gemini

**- Letter of Nomination -
Photonics21 Board of Stakeholders
Election 2023**

Photonics21 Board of Stakeholders - Letter of Nomination

1. Full legal name of the affiliation nominated as BoS Member (candidate's organisation):

ALPhANOV Centre Technologique Optique et Lasers

2. Full contact details of the affiliation (street, postal code, country) nominated as BoS Member and invoice address *(In accordance with the Terms of Reference §5, which the Affiliation acknowledges having received, an Annual Service fee will be invoiced every year during the first quarter to the BoS Member. By signing the present letter, the BoS candidate agrees to pay this Membership Fee. The Fee will be considered an asset of the Photonics 21 AISBL in accordance with its statutes (article 12b).)*

ALPhANOV Centre Technologique Optique et Lasers
Rue François Mitterrand
33400 Talence
France

3. Name of the suggested BoS Representative (the personal candidate)

Dr. Laura Gemini

4. Information about the BoS candidate and the BoS representative

a) Description of the activities and information about the expected contribution and value added the nominated BoS member (candidate's organisation) will bring to the BoS¹

ALPhANOV is a Research and Technology Organization founded in 2007 by the Regional Council of Nouvelle-Aquitaine, the CEA (Commissariat à l'Energie Atomique), the CNRS (Centre National de la Recherche Scientifique), the University of Bordeaux and the ALPhA-RLH association, the regional competitiveness cluster gathering the whole local photonic ecosystem. ALPhANOV technological center is supporting innovations in optics and lasers all along the value chain, through collaborative projects, demonstrator manufacturing and small series production, as well as start-up incubation to support photonics EU SME creation and growth. Its cutting-edge expertise is structured around four departments: laser sources and components, laser processing, photonic systems and training.

ALPhANOV holds in Europe a distinct position that bridges the gap between academia and industry, offering knowledge and resources to facilitate the successful adoption of innovative photonic solutions in the market, understanding end-users' needs from various sectors (aerospace, defence, microelectronics, health, etc.), in line with Photonics 21's goal to spread photonics-based innovations over EU, foster co-operation and smooth out the current fragmentation of national and European R&D activities. ALPhANOV's strategic approach, through its organization built around the whole photonics value chain and a team of highly

¹ The candidate is aware and accepts that according to the Photonics21 Terms of Reference (§ 5 (10) a membership fee - as determined by the General Assembly of the Association - needs to be paid to the Photonics21 association.

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skilled and experienced experts in various photonics domains, matches the EU Photonics Partnership's purpose of leveraging EU SME's potential that can contribute to EU leadership and reduce EU's reliance on Asian countries and USA.

As a member of the board, ALPhANOV's contribution will include sharing the latest advancements, insights, and breakthroughs in photonics research, thus providing the BoS with access to cutting-edge technologies, enabling informed decision-making and fostering innovation within the photonics sector. ALPhANOV's track record of translating research into practical applications and commercial products will be of great value to the BoS, by offering insights into the processes of innovation, technology transfer, and successful commercialization, contributing to the board by fostering ideas that can transform research into tangible economic and societal benefits. In summary, ALPhANOV's involvement in the Photonics21 BoS promises a multifaceted contribution that spans technical expertise, research insights, collaboration facilitation, industry knowledge, policy advocacy, and educational outreach. Their participation will undoubtedly enrich the board's discussions, decisions, and actions, ultimately driving the growth and innovation of the photonics sector within the larger European and global contexts.

- b)** Description of the activities and information about expected contribution and value added the BoS Representative (candidate / person) will bring to the BoS.

I am a scientific professional with more than 10 years-experience in the field of photonics and a profound passion for advancing the photonics industry. After completed my Ph.D. studies conducted in both Prague and Japan, I joined the French technological center ALPhANOV in 2015 to strengthen my industrial background and network. I am currently Deputy Head of the Laser Processing Dpt., leading EU-funded, national and regional R&D projects, as well as managing technology transfer projects with industry. From 2021 to 2024 I was selected as Chair of the SPIE conference Laser Applications in Microelectronic and Optoelectronic Manufacturing (LAMOM) XXVII. In 2023 I was nominated from Electro Optics for the #Photonics100 list of most innovative people regarding their contribution to the photonics industry.

Leveraging my extensive experience in photonics and large international professional network, I would provide new strategic insights into emerging trends, technological advancements, and market dynamics and support in identifying and capitalizing on emerging markets and applications where photonics, in particular ultrafast laser technologies and applications, can make a significant impact. I will proactively identify opportunities for collaboration (for instance, with other partnerships such as EFFRA) and innovation within the photonics sector, contributing to the board's decision-making process. By facilitating interactions among industry leaders, researchers, and policymakers, I will foster a cross-disciplinary collaborative environment that accelerates the development and adoption of photonics solutions, as well as the promotion of Photonics21 goals. This will drive the development of novel photonics solutions that address real-world challenges and create new market opportunities. My active involvement on the board will contribute to enhance the global visibility of Photonics21 and its initiatives. This heightened visibility will attract international collaborations, investments, and partnerships, further enriching the photonics ecosystem. In conclusion, my commitment to the photonics research and industry, coupled with my strategic insights and technical ex-

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pertise, positions me as a dedicated contributor to the Board of Stakeholders of Photonics21. I am eager to collaborate with fellow board members to drive innovation, foster collaborations, and propel the photonics industry to new heights.