



To Photonics21 Secretariat
via eMail: secretariat@photonics21.org

Dear Photonics21 Secretariat,

We herewith submit the nomination of the following Photonics21 Board of Stakeholders candidate
CEA-Leti / Laurent Fulbert

**- Letter of Nomination -
Photonics21 Board of Stakeholders
Election 2024**

Photonics21 Board of Stakeholders - Letter of Nomination

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

CEA-Leti

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).)*

CEA-Leti
DOPT
17, rue des martyrs
38054 Grenoble cedex 9
France

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

Laurent Fulbert

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

Leti, a technology research institute at CEA Tech, is a global leader in miniaturization technologies enabling smart, energy-efficient and secure solutions for industry. Founded in 1967, Leti pioneers micro- & nanotechnologies, tailoring differentiating applicative solutions for global companies, SMEs and startups. Leti tackles critical challenges in healthcare, energy and digital migration. From sensors to data processing and computing solutions, Leti's multidisciplinary teams deliver solid expertise, leveraging world-class pre-industrialization facilities. With a staff of more than 1900, a portfolio of 3200 patents, 11000m² of cleanroom space and a clear IP policy, the institute is based in Grenoble, France, and has offices in Silicon Valley and Tokyo. Leti has launched more than 75 startups and is a member of the Carnot Institutes network.

Optics and photonics activities at CEA-Leti are focused mainly on big industrial markets for photonics: imaging at various wavelengths (X and Gamma rays, visible, infrared, THz), information displays, solid-state lighting, optical data communications and sensors. CEA-Leti is focused on selected photonic applications in which technology and integration strongly impact the final products with lower costs, better performance or more functionalities.

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

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CEA-Leti is currently involved in more than 100 European Research Area projects, not only in optics in photonics, but also in silicon technologies and components, architecture and IC design, embedded software, technologies for biology and health, systems and solutions integration.

CEA-Leti researchers have been playing an active role in most of Photonics21 workgroups, in particular:

- In WG1, through their activities on high speed optical components for datacoms/telecoms
- In WG3, with activities on biophotonics and medical imaging
- In WG4, with activities on integrated LIDARs, GaN-based LEDs, Organic LEDs, integration of solid state lighting engines, as well as display components and systems
- In WG5, with activities on image sensors in visible, IR and THz range
- In WG6, with activities on integrated optical sensors for molecule detection in gas and/or liquids
- WG7-Core photonics, thanks to CEA-Leti huge experience in fabrication process on 100mm, 200mm and 300mm wafers

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

Laurent Fulbert received an engineering degree from the Ecole Centrale de Paris, in 1989. He has been working at CEA-Leti, a major European technological research institute in microelectronics and microtechnologies, since 1990. From 1998 to 2004, he was manager of the Optoelectronics Devices Laboratory. The activities of the laboratory dealt with solid-state lasers, crystal growth, integrated optics, optoelectronics packaging and optical microsystems. From 2004 to 2014, he was photonics programs manager at CEA-LETI, in charge of business development and collaborative projects in the field of integrated photonics, nanophotonics, sensors and lasers. During this period, he led several large scale European and national projects dealing with silicon photonics like HELIOS, PLAT4M and IRT Nanoelec. He has also built bilateral R&D partnerships with international industrial companies.

He is now Deputy Head of Optics and Photonics division, in charge of Strategy and Programs Management. From 2014 to 2021, he was also managing director of III-V Lab, a joint R&D laboratory between Nokia, Thales and CEA.

He has been a member in Photonics21 since its creation in 2005, in WG1 and WG6. He has been elected BoS member in 2010 and reelected in 2016 and 2020. He has played an active role in the writing of the successive editions of the Photonics21 Strategic Research Agenda, as well as the call topics in the Photonics21 PPP in the field of integrated photonics.

He wants to continue to contribute to the BoS with his broad expertise in most of the workgroups topics, as well as a good knowledge of industrial and research players in the field of photonics.