



To Photonics21Secretariat
via eMail: secretariat@photonics21.org

Dear Photonics21 Secretariat

We herewith submit the nomination of the following Photonics21 Board of Stakeholder candidate (Fondazione Bruno Kessler) / representative (Matteo Perenzoni).

**- Letter of Nomination -
Photonics21 Board of Stakeholders
Election 2020**

Photonics21 Board of Stakeholders - Letter of Nomination

§ 5 BOARD OF STAKEHOLDERS (6) b....A candidate nomination will always contain the name of the candidate organisation together with its proposed BoS Representative, and voting on a candidate implies voting on this combination.

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

Fondazione Bruno Kessler (FBK)

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 Service Fee. The Service Fee will be considered an asset of the Photonics 21 AISBL in accordance with its statutes (article 12,c).

Affiliation:

Fondazione Bruno Kessler
Via Sommarive 18
38123 Trento – Italy

Invoice address:

Fondazione Bruno Kessler
Via Santa Croce 77
38122 Trento – Italy

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

Matteo Perenzoni

4. Information about the BoS candidate and the BoS representative

Extract Photonics21 Terms of Reference¹: “§ 5 BOARD OF STAKEHOLDERS; ...(6) Election of BoS Members: “Description of the activities of, and information about the added value and contribution to the BoS by both the nominated BoS member and the BoS Representative”

- a) Description of the activities and information about the expected contribution and value added the nominated BoS member (candidates organization) will bring to the BoS²

¹ Photonics21 Terms of reference are available at

http://www.photonics21.org/download/general_inf/TermsOfReference/ETPPhotonics21TermsOfReference.pdf

² The candidate is aware and accepts that according to the Photonics21 Terms of Reference a service agreement and a service fee invoice is to be signed / paid with the Photonics21 association.

Photonics21 Board of Stakeholders - Letter of Nomination

Fondazione Bruno Kessler (FBK) is a non-profit research institute located in northern Italy, founded in 1962 by the Autonomous Province of Trento. The foundation has the mission of achieving scientific and innovation excellence and perform effective technology transfer to companies and public services. As of today, it employs more than 400 researchers, conducting studies mainly in the areas of Information Technology, Materials and Microsystems, radiation and imaging sensors, photonics and, through an extensive network of collaborations, in theoretical nuclear physics, networks and telecommunications and public policy evaluation. Among the various activities and departments, the Center for Materials and Microsystems of FBK focuses its research on key areas of materials and microsystems, sensors and photonics with the aim to provide a practical and experimental evidence of their crucial importance for science, market, cultural growth and social welfare.

Research and innovation activities in the *Photonics area* are carried out by research units with excellent expertise in *silicon and CMOS radiation detectors, silicon photonics, biosensing, communications and quantum technologies*. Additionally, the research units are supported by an important infrastructure that includes *a microfabrication facility equipped with two clean rooms for the manufacturing of radiation sensors (CMOS pilot line), photonics structures and MEMS; a laboratory for biomolecular sequencing and structural analysis for research in the areas of genomics, biophysics, bioimaging, bionanotechnology and bioinformatics*. The combination of knowledge, infrastructure and technology platforms available at FBK-CMM constitutes a unique case in the Italian research and innovation landscape.

The added value that FBK could bring to the BoS is based on its vocation for knowledge creation through frontier research and innovation carried forward with strong links with companies and targeting clear market needs. On the one hand, FBK has the spirit of research towards solving fundamental problems, but with a special attention to make this attractive for companies, matching the scientific and industrial roadmaps. Moreover, FBK has a long-term experience and link with the European research programs, where all the units participate actively.

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

Matteo Perenzoni, with a MSc degree in Electronics Engineering from the University of Padova, has been with the Center for Materials and Microsystems of the Fondazione Bruno Kessler (FBK-CMM) since 2004. Beginning as a Researcher, since 2017 he is head of the Integrated Radiation and Image Sensors (IRIS) research unit, leading a group of about 30 researchers, PhDs, and technicians. His experience is mainly in the area of silicon radiations detectors and imaging sensors, both in custom and CMOS technologies. In the international scientific community of image sensors he is a well known scientist especially in the topic of single-photon detectors. He is member of Photonics21 since 2007, actively participating in the WG5 – Metrology and Sensors. Therefore, he is aware of the procedures and the environment of Photonics21, and he is willing to bring an accrued contribution based on his vision – and the vision and experience of the whole of FBK – about the roadmap and landscape of sensor technologies, integrated photonics and fabrication processes. These actions are part of his daily job, in close cooperation with research institute and international industries.