



To Photonics21Secretariat
via eMail: secretariat@photonics21.org

Dear Photonics21 Secretariat

We herewith submit the nomination of the following Photonics21 Board of Stakeholders candidate
TNO / Joanne Wilson

**- 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):

Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek (TNO)

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).)*

Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek (TNO)
Anna van Buerenplein 1
2595 DA, Den Haag
The Netherlands

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

Dr. Joanne Wilson

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

TNO (Netherlands Organisation for Applied Scientific Research) is one of the major contract research

organisations in Europe, with a staff of approximately 3900 and an annual turnover of 590 million Euros. It is an independent, non-profit organisation that connects people and knowledge to create innovations that boost companies' competitiveness and sustainably increase well-being across society. TNO is active in the energy and materials transition, high tech industry, mobility and the built environment, defence, safety and security, healthy living and work and ICT. Within these domains, TNO has been developing advanced optical solutions for European industry at TRL3-TRL9 for more than 80 years and has deep expertise in the design and realisation of high performance instruments containing free-form geometrical optics, adaptive optics, laser optics, fiber optics, integrated photonics, plasmonics, metamaterials and thin film electro-optical devices.

As a research organisation active in a wide range of domains, TNO works closely with government bodies, from local to European level, participating in drafting research agendas, seeking European collaborations to study cross-border issues, and formulating policy recommendations in the field of innovation. TNO has been a member of the Board of

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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Stakeholders of Photonics21 since 2009 and as an independent research organisation, positioned between the European photonics industry and academia, it has been able to represent the needs and interests of a diverse range of stakeholders from the European photonics ecosystem across all workgroups and application areas of Photonics21. TNO has contributed to the generation of roadmaps and proposed work programmes for Photonics21, to the development of a new Photonics21 program structure as well as to the communication between Photonics21 and the EC.

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

TNO has been represented on the Board of Stakeholders of Photonics21 by Jaap Lombaers (also a member of the Executive Board of Photonics21) for the past 13 years. As Jaap will reach retirement age in November 2023 he will stand down from the Executive Board and the BoS at the upcoming BoS elections. Joanne Wilson is being nominated to replace Jaap Lombaers as representative of TNO on the BoS of Photonics21.

Dr. Joanne Wilson is the manager of the Optics department of TNO in Delft, the Netherlands. This is a department of 60 colleagues, with expertise in a wide range of optical technologies for applications in the space and semiconductor industries; optical communications, quantum computing, communications and sensing; structural health monitoring systems; and medical and scientific instruments for customers including ITER, Airbus, NASA and ESA. Previous projects of the department include the James Webb and GAIA Space Telescopes, and the TROPOMI instrument on the Sentinel-5P satellite for atmospheric gas monitoring. The TNO Optics department has also created 2 spin-off companies in the past 5 years. From 2012 -2017 Joanne was Program Director of the OLED and large area energy devices programs at the Holst Centre in Eindhoven, the Netherlands. The Holst Centre is a joint innovation centre established by TNO and IMEC which offers shared research programs to accelerate the transfer of new technologies from academia to industry. During that time she was also coordinator of the European Flexible OLED Pilot Line service PI-SCALE, a consortium of 14 partners offering customized flexible OLEDs for lighting and signage applications. Joanne has 25 years of experience in optical technology development and research, spanning topics from cold atom physics, to spectroscopy, OLEDs, solar cells, flexible electronics and integrated photonics (PIC). Before moving to TNO in 2006 she was Research Lecturer at Imperial College London, and received her PhD in Physics from the University of Cambridge, UK.

Since 2016 Joanne has been an active member of Photonics21, participating in the annual meetings to give presentations and to contribute to workgroup brainstorm sessions and has been involved in compiling and editing of work program proposals for several years. While she was coordinator of the PI-SCALE pilot line, one of the first EC funded photonics pilot lines, she was also part of a working group of pilot line coordinators and EC Photonics Unit representatives who worked together to share experiences and best practices and to compile recommendations for future EC pilot line calls. She is also actively involved within the Photonics ecosystem in the Netherlands, contributing to the writing of the National Agenda for Photonics and participating in national photonics workgroup meetings for various

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application areas. As BoS member for Photonics21, Joanne would build further on these contributions, to support the generation of roadmaps and proposed work programmes in photonics together with stakeholders from European industry and academia, and to help to align Photonics21 with other European PPPs and programs such as the Chips Act. Due to the breadth of TNO's activities in photonics and also from her own work experience, Joanne has interest in all work programs of Photonics21. In the past year she has focussed on supporting the Core Work Group of Photonics21 in particular and if she would become a BoS member she would be very happy to further extend this support.