



Dear Photonics21 Secretariat

We herewith submit the nomination of the following Photonics21 Board of Stakeholder candidate (organization) / representative (person).

**- Letter of Nomination -
Photonics21 Board of Stakeholders
Election 2018**

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§ 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):

Heliatek GmbH

2. Full contact details of the affiliation (street, postal code, country) nominated as BoS Member and invoice address (in case the candidate is elected, the affiliation needs to pay an annual service fee according the Photonics21 Terms of Reference §5 (10)):

Heliatek GmbH
Troidlerstraße 3, 01139 Dresden, Germany

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

Dr. Karsten Walzer

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

Heliatek GmbH is the world-wide technology leader in organic photovoltaics (OPV). As a fully integrated company, Heliatek develops, produces and sells large-area OPV solar foils. The business model is based on the production of photovoltaic foil products to partners in the building industry and the building material industry, e.g. for integration of custom-made PV solutions for façade and roof elements. Heliatek address the market of building integrated photovoltaics for the realization of decentralized, decarbonized energy generation. The customer benefits are flexibility, customizability and low weight. Addressed place for the integration are glass facades, roofs with reduced load capacity and wall parts out of concrete, steel or other materials.

Heliatek is currently under transition from a technology leader in OPV with a highly innovative vacuum-based roll-to-roll production, to a volume producer. In fact, this is the first time world-wide that the OPV production will be upscaled to real industry scale: Heliatek currently is setting up a 1.2 m web width roll-to-roll production line. This line will have an annual capacity of 1 million square meters, and will go into production in 2019. The line applies laser-based series connection of OPV cells. By end of 2019, Heliatek will be the by far largest producer of OPV world-wide, and the largest producer of organic electronic products in Europe.

¹ Photonics21 Terms of reference are available at https://www.photonics21.org/download/about-us/structure/ETP_Photonics21_Terms_of_Reference_C3.pdf?m=1513688127&m=1499877714

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.

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The involvement of Heliatek in Photonics21 is manifold:

- Heliatek is one of the major European stakeholders in the field of Thin, Organic and Large Area Electronics (TOLAE), and as such it is an active member of WG4
- In its production processes, Heliatek employs several advanced laser processing steps, which are based on a deep in-house knowledge and collaborative work within the laser community
- Heliatek has a long track record in national and European R+D projects with partners from the photonic industry from all over Europe, and it will continue such collaborations
- Heliatek is a long-term contributor to the Photonics21 roadmaps.

In summary, we are convinced, that Heliatek's contributions to Photonics21 will reinforce the European photonics industry landscape, as well as it will contribute to a more sustainable Europe.

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

Dr Karsten Walzer is a Senior Research Scientist & Project Manager, working at Heliatek since 2008. Dr Walzer manages the publically funded research and development projects at Heliatek. Besides this, he supervises an organic materials research team at Heliatek. He holds a Diploma and a PhD degree in Physics. His background is materials science with the focus on organic semiconductors. Dr Walzer was the initiator and manager of several EU projects for Heliatek, as well as for his former employers. His professional experience includes >15 years of work in academia and >10 years in industry, both nationally and internationally. His previous employers are Technische Universität Chemnitz, Danmarks Tekniske Universitet, and Technische Universität Dresden. Dr Walzer is member of the roadmapping teams of Photonics21 as well as of the Organic Electronics Association.

Within Photonics21, Dr Walzer currently is acting member of the Board of Stakeholders (on behalf of elected Thibaud Le Seguillon) representing Heliatek and the OPV community. Dr Walzer is an active member of WG4 with regular participation in discussions, workgroup meetings and roadmapping activities. Heliatek as the largest OPV company in Europe thus fills the gap existing due to the fact that most other OPV companies are rather small, having too little resources for regular Photonics21 activities. Dr Walzer is in contact with many other OPV players (academic and non-academic) to give the best possible input to Photonics21 for the field of OPV.

Final information from the Photonics21 secretariat:

- *We recommend limiting the BoS nomination letter to 3-4 pages max.*
- *Letters of nominations should be either submitted via the Photonics21 website*

<https://www.photonics21.org/bos-election/index.php>

or via e-mail to secretariat@photonics21.org .

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- *It is highly recommended to consult the Photonics21 Terms of Reference before submitting the nomination.*
- *Please note that the deadline for providing BoS nominations to the Photonics21 Secretariat is the **21st September 2018**.*