



To Photonics21Secretariat
via eMail: secretariat@photonics21.org

or via Mail:
c/o VDI Technologiezentrum GmbH
ST / QS
Attn: Barbara Kehrer, Ursula Tober, Markus Wilkens
VDI Platz 1
40468 Düsseldorf
Germany

Dear Photonics21 Secretariat

We herewith submit the nomination of the following Photonics21 Board of Stakeholder candidate
Veoneer Sweden AB / representative Dr. Jan-Erik Källhammer.

**- Letter of Nomination -
Photonics21 Board of Stakeholders
Election 2019**

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):

Veoneer Sweden AB

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).*

Wallentinvägen 22, SE447 37 Vårgårda, Sweden

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

Dr. Jan-Erik Källhammer, Director Visual Enhancement & Cognitive Systems at Veoneer Sweden AB

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

Veoneer is the world's largest pure-play company focused on automotive safety electronics, Advanced Driving Assistance Systems (ADAS), collaborative and Automated Driving (AD). Veoneer develops and manufactures automotive electronic safety systems for several major vehicle manufacturers in the world. In 2018 the turn-over was \$2.2B, with 8,600 associates of which about 4,700 in RD&E, located in 13 countries, with 10 manufacturing sites and 26 technical centers. The key role of Veoneer in the BoS is to relay the experiences of automotive supply of various photonic sensors and systems, in order to increase the chances of that the photonic technology developed will be fit for automotive use and enable widespread uptake on the market.

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.

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The automotive industry is very important for the EU's economy. EU is one of the largest exporters of vehicles and vehicle components in the world with an EU trade surplus of €90 billion (€90B). The automotive sector provides 13.3 million jobs (6.1% of all EU jobs) and is therefore also an essential source of tax income, with €413 billion in EU15 alone (7% of total receipts from taxes and social contributions). The automotive sector is EU's #2 investor in R&D after European Healthcare, with 27% of total EU spending on innovation by investing €54B per year in R&D. There is therefore much at stake that the European automotive industry can efficiently adopt imaging technologies, but it also offers an immense opportunity for European photonics industry. An increased deployment of photonics technologies in automotive and transport will make the sector an important driver for the photonic industry.

Veoneer will seek to be a link between automotive requirements and the role of automotive suppliers with the Work Groups of the Photonics PPP.

½ - 1 page description suggested

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

Dr. Källhammer is presently chair of the new Photonics21 working group Automotive & Transport. Dr. Källhammer has 20 years' experience with automotive active safety development. He was responsible for the inception and development of a Night Vision Drivers Vision Enhancement based on an uncooled long-wave infrared camera, which is now on the market in Audi, BMW, Cadillac, Mercedes, Peugeot, VW, and some luxury cars. Current work focusses on visual enhancement in darkness and inclement weather (Night Vision, LIDAR, gated imaging). He is now with Veoneer, a tech company delivering automotive grade sensors and electronics to the automotive vehicle manufacturers, such as cameras, lidars, and radars.

Källhammer has a Ph.D. in Cognitive Systems from the department of Information and Computer Science at Linköping University, Sweden, an M.S. In E.E. from Duke University, Durham, NC, U.S.A., and a M.S. in M.E. from Luleå Technical University, Sweden. Källhammer has co-authored 30 articles and conference papers and has 20 patent proposals or granted patents. He is a senior member of IEEE, including the IEEE Photonics chapter and a member at SPIE, and OSA.

½ - 1 page description suggested

Final information from the Photonics21 secretariat:

Photonics21 Board of Stakeholders - Letter of Nomination

- *We recommend limiting the BoS nomination letter to 3-4 pages max.*
- *Letters of nominations can either be submitted*
 - *A) electronically (secretariat@photonics21.org) - **PREFERRED***
 - *B) by post mail to:*

*VDI Technologiezentrum GmbH
ST/QS
B. Kehrler/ U. Tober/ M. Wilkens
VDI-Platz 1
40468 Düsseldorf
Germany*

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 2019**. This is also valid for postal submission.*