To Photonics21 Secretariat
via eMail: secretariat@photonics21.org

Dear Photonics21 Secretariat,

We herewith submit the nomination of the following Photonics21 Board of Stakeholders candidate SCHOTT AG / Jens Ulrich Thomas.

- Letter of Nomination -
Photonics21 Board of Stakeholders
Election 2025

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

   SCHOTT AG

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).)*

   Hattenbergstraße 10
   55122 Mainz
   Germany

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

   Dr. Jens Ulrich Thomas

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 BoS[1]

SCHOTT is an international technology group with more than 140 years of experience in the areas of specialty glass and glass-ceramics. SCHOTT´s main markets include the home appliance industry, pharmaceuticals, electronics, optics, life sciences, and the automotive and aviation industries. SCHOTT currently employs 17,100 people and operates manufacturing sites and sales offices in 33 countries. In fiscal year 2023/2024, SCHOTT generated total Group sales of EUR 2,836 billion.

Benefitting from well over a century of experience in the development and manufacture of high-quality glass products, SCHOTT offers a huge portfolio of optical glasses for a vast range of commercial, industrial and scientific applications.

SCHOTT´s unrivalled range of around 120 glass types is constantly evolving as new innovations and melting processes are introduced to optimize efficiency and cost-effectiveness. SCHOTT optical glasses are available in the form of raw glass, cut blanks and pressings, as well as finished components, and we work closely with customers to tailor our products to their needs.

SCHOTT´s high homogeneity glass has a crucial role to play in high-power laser applications and astronomy, while our i-Line glass offers high UV transmittance. Cameras and medical

[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.

instruments also rely on our precision-molded glasses, while HT and HTUltra glasses allow outstanding transmittance for projector or high-end optical systems.

SCHOTT optical glass boosts the AR (augmented reality) experience with high contrast and bright color, offering high surface quality and accurate geometry, while our hermetic packages protect the opto-electronic components within AR glasses.

SCHOTT's optical wafers enable the production of miniature optics for consumer electronics, augmented reality, and more. Offering ultra-flat surfaces and a variety of materials, these wafers ensure precision in lithography and optical performance.

SCHOTT UTG® (ultrathin glass) is at the heart of the foldable revolution in the consumer electronics market, and has been awarded with the Guiness World Record for the thinnest glass on Earth at an early stage of its development.

Setting new standards for high-frequency applications, SCHOTT® low-loss glass is ready for further development as an advanced packaging material. Its low dielectric constant enables efficient broadband antenna solutions, tailored telecommunication, and precise radar applications. With an extremely smooth surface having nanometer-level precision, it ensures unrivaled performance and efficiency at GHz frequencies, paving the way for the next generation of data transmission.

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

Dr. Jens Ulrich Thomas joined SCHOTT R&D in 2015 as a scientist for laser-based post processing of glass and glass-ceramics. In 2022 he got promoted to Principal Scientist for his deep expertise in material laser interaction. His current interests are hermetic glass packages for miniaturized medical implants and wafer level processing of glass.

For third party or bi-lateral research projects he is in constant contact with leading European photonic research institutes (e.g. Fraunhofer Institutes, IFSW, TU Delft, Univ. Lyon, Univ. Bordeaux, Alphanov, ETH Zürich, EPFL, ORC Southampton). He is currently working on the EU-Flagship-Project QLASS, that aims for all-optica quantum integrated circuits (QPIC). Jens Ulrich Thomas continuously serves as a member of the advisory board for several publicly funded research projects (e.g. LAMPAS, E-Phoquant, MacroGlass, RATI, UKPFlex, EFRE4.0) and is an active member and reviewer of OPTICA (formerly Optical Society of America).

Dr. Jens Ulrich Thomas studied physics at the University of Jena, where he received his PhD in 2012. His thesis „Mode control with ultra-short pulse written fiber Bragg gratings“ got the Sigrid-Werth Excellent Dissertation Award. Funded through a Post-Doc grant by the Carl-Zeiss-Foundation, he investigated spatiotemporal beam shaping of ultrashort pulses at the Colorado School of Mines. He authored or co-authored more than 30 peer-reviewed articles as well as one upcoming book-chapter. He is also inventor or co-inventor of more than 50 patents.

Based on his experience in research as well as in industrial applications he would be contributing to the Work Groups 2 (Manufacturing), 3 (Health) and 7 (Core Photonics). As a close colleague of Ulrich Fotheringham, who has continuously been representing SCHOTT AG on the BoS since the foundation of Photonics21 in 2005, he would continue to provide his expertise in the fields of glass and optical materials.