



To Photonics21Secretariat  
via eMail: [secretariat@photonics21.org](mailto:secretariat@photonics21.org)

Dear Photonics21 Secretariat

We herewith submit the nomination of the following Photonics21 Board of Stakeholder candidate  
Universidad Carlos III de Madrid / representative Guillermo Carpintero-del-Barrio.

**- 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):**

*Universidad Carlos III de Madrid*



### **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).**

*Avenida de la Universidad, 30  
28911 Leganes, Madrid  
Spain*

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

*Guillermo Carpintero-del-Barrio*

### **4. Information about the BoS candidate and the BoS representative**

*Extract Photonics21 Terms of Reference<sup>1</sup>: “§ 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”*

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<sup>1</sup> Photonics21 Terms of reference are available at [http://www.photonics21.org/download/general\\_inf/TermsOfReference/ETPPhotonics21TermsofReference.pdf](http://www.photonics21.org/download/general_inf/TermsOfReference/ETPPhotonics21TermsofReference.pdf)

## Photonics21 Board of Stakeholders - Letter of Nomination

**a) Description of the activities and information about the expected contribution and value added the nominated BoS member (candidates organization) will bring to the BoS<sup>2</sup>**

*UC3M has strived, since its foundation, to make research one of the fundamental pillars of its activity, both for the enhancement of its teaching and for the new knowledge and new areas of research. Since its foundation, UC3M has gained a national reputation for its research efficiency. In terms of return obtained from Horizon 2020 programme (2014-2017), UC3M is 14<sup>th</sup> in Spain, and seventh among Spanish universities. Within international rankings, holds a noteworthy position on the QS Top 50 Under 50 Ranking, being at position 34<sup>th</sup> worldwide and ranked 12<sup>th</sup> in Europe. Other measures of the high level of University performance are being among the 50 best European universities in teaching excellence according to the 2019 THE Teaching Ranking, in the 298<sup>th</sup> position on the QS World University Rankings 2020, and classified in the Shanghai Ranking as one of the best universities in the world in 12 academic subjects. As part as its commitment to the internationalization of research and education, UC3M has established alliances with academic institutions all over the world, highlighting:*

- *YERUN - Young European Research Universities -, the youngest of these networks, is aimed to strengthen and develop cooperation in the areas of research, academic education and service to society among a cluster of highly-ranked, young research universities in Europe on an equal basis and for their common benefit.*
- *YUFE - Young Universities for the Future of Europe -, which is one of the 17 alliances of European universities selected by the European Commission to develop and implement the first models for a European University.*

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

*Guillermo Carpintero is Full Professor at Electronics Technology Department of Carlos III University of Madrid (UC3M). Received the Telecommunication Engineering degree from Polytechnic University of Madrid (UPM) in 1993 and the PhD from UC3M in 1999, awarded with the Extraordinary Doctoral Distinction. Currently develops an intense activity both on research and education.*

*In research, is director of the **Optoelectronics and Laser Technology Group (GOTL)**, specialized in Photonic Integrated Circuit design and their application in the field of integrated microwave photonics, reaching to the millimeter-wave and Terahertz frequency range. In 2010 coordinated a FP7 STREP Project iPHOS, which developed the first full millimeter-wave transmitter on a single PIC. Currently is coordinator of the H2020 FET Open TERAmesure project using photonics to develop breakthrough technology for Terahertz instrumentation.*

*At UC3M I have over 10-year experience in academic positions at UC3M School of Engineering. Currently, I am serving as Director of the Graduate School of Engineering and Basic Sciences, responsible for the implementation of master programs in engineering. Other merits are: IEEE Senior Member, member of the editorial board of IET Optoelectronics journal, and member of the Board of Stakeholders of the Photonics21 European Technology Platform. I have published over 200 contributions in high impact refereed journals and international conferences, delivering above 15 invited talks and two keynote speeches. Has received several awards, including the "Heather Williamson Young Investigator Award" in 2000 from the International Society for Optics and Photonics (SPIE), 2009 UC3M Social Council Excellence Award and the 2011 Best European R&D Project in Cooperation Award from Madri+d Foundation.*

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<sup>2</sup> 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.