



To Photonics21Secretariat
via eMail: secretariat@photonics21.org

Dear Photonics21 Secretariat

We herewith submit the nomination of the following Photonics21 Board of Stakeholder candidate
European Federation for Welding, Joining and Cutting (EWF) / Eurico Assunção.

**- Letter of Nomination -
Photonics21 Board of Stakeholders
Election 2020**

Photonics21 Board of Stakeholders - Letter of Nomination

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

European Federation for Welding, Joining and Cutting (EFW) – www.efw.be



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).

Av. Prof. Cavaco Silva, 33 Taguspark
2740-120 Porto Salvo, Oeiras
PORTUGAL

Name of the suggested BoS Representative (the personal candidate)

Eurico Assunção

Information about the BoS candidate and the BoS representative

Extract Photonics21 Terms of Reference 1: “§ 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

EFW is a European organisation established as an international non-profit association that acts as a representative of manufacturing community in Europe, providing the exchange of scientific and technical information and contributing to the removal of technical barriers. EFW, was created in 1992 by all the welding institutes of the European Community with the aim of updating and harmonising training and education in the field of welding technology.

The EFW network is composed by 31 European and 16 Non-European members – the national Welding Institutes. The EFW Members are organizations active in Training, in RTD and transfer of technology and cover a wide range of industrial sectors in their own member networks, including sectors as automotive, aerospace, metalworking, naval, appliances, etc. EFW also manages a harmonized system for training, qualification and certification of personnel, with more than 250.000 diplomas awarded and covering different levels of qualification and different industrial requirements.

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.

Photonics21 Board of Stakeholders - Letter of Nomination

Current EWF membership includes approximately 50,000 companies where around 75% are SMEs (approximately 37,500). Through its members, EWF aims to address technological issues and needs, improving quality and stimulating competitiveness, by disseminating the opportunities created by the results of EU-funded projects to potential users and by training professionals in the use of the emerging technologies such as AM, (including Photonics-based technologies). EWF provides world class, European focused, value-added products and support services to its members and their communities in the field of joining, welding and related technologies on an international basis. EWF is also member of EFFRA and one of the founding organisations of the Joining Sub-Platform to ManuFuture. EWF is also a liaison member to CEN and ISO with involvement in standardization activities at the European and International level.

EWF will be able to support and address the major skills related challenges identified under **photonics research & innovation and education & training** area for the period 2021-2027. EWF is highly connected to the relevant European bodies dealing with skills, education and training: EQF, ESCO, Skills Panorama and Cedefop, always assuring the alignment between EWF qualifications and theirs recommendations.

Additionally, the link of EWF with European SMEs would be valuable for PHOTONICS21 platform in the sense that this connection has been established to address the needs and shortages SME's identify when implementing innovative technologies, usually highly dependent on training and education. The harmonised training delivery system, highly supported by a quality assurance system, in place at EWF for Welding, Joining and allied processes (inc. laser-based processes) and Additive Manufacturing could be replicated to the photonics area. EWF would ease up the integration of photonics in academic and vocational training (due to the vast network of training centres across Europe and beyond, and the good connection and recognition by European universities). Turning photonics a priority both in STEM curricula and in other educational fields would be also addressed by EWF as part of the training and education activities.

Additionally, EWF would be of support to reach and develop the following activities:

1. The mobility of students
2. Lifelong learning programs alignment with industry (mainly SMEs)
3. Digital skills to be integrated in the training programmes to be developed/adapted/updated
4. Implement strategies to enhance entrepreneurial and innovation mindsets
5. Enhancing the visibility of photonics in related curricula
6. Outreach towards young minds and students

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

Since 2011, exercises the Deputy Director function in EWF – European Federation for Welding, Joining and Cutting. Its main tasks involve Business development and identification of new areas of activity; coordination of several projects financed by the European Commission and the preparation of project proposals under various European programs: Leonardo da Vinci, the 7th Framework Programme of the Research Fund for Coal and Steel, H2020 and Erasmus +, in order to support the development of European industry.

Photonics21 Board of Stakeholders - Letter of Nomination

Since September 2013, he is an Assistant Professor at IST - Instituto Superior Técnico, Lisbon, Portugal and invited trainer by the ISQ – Instituto de Soldadura e Qualidade for providing training in the area of laser welding and laser processing.

Since 2013, Trainer/Consultant in the field of laser welding have provided supported to numerous industrial projects with several companies, for example SODECIA, VW, KIRCHHOFF, Medtronic, Renault and TYCO. The support addressing the full process chain including data handling, process control and monitoring, machine cooperation, work piece handling, materials, the laser process, beam delivery, quality control and event training of the personnel and troubleshooting.

Since 2014, auditor of ATBs in accordance to EWF and IIW-IAB System rules, with audits carried out in Portugal and Mexico and since 2019, Technical Auditor for Additive Manufacturing ANBs and ATBs in accordance to the Rules and Operational Procedures of the EWF International Additive Manufacturing Qualification System.

Since July 2019 founder and owner of a consultancy company dedicate do Additive Manufacturing and Joining consultancy services and selling of industrial equipment, like 3D printers and manufacturing lasers.

Eurico was also involved in the creation of Joining Sub-Platform and member of the Steering Committee. With "Horizon 2020", the MANUFUTURE (Eurico is the representative of Joining in the ManuFuture High Level Group) platform identified "Joining" as a "key enabler" of the industry and the need to develop a strategy in this area. This necessity has encouraged the establishment of the "Sub - Joining Platform" with the aim of developing a coordinated, related "Joining". One of the activities of this Sub - Platform was the creation of a "Research Agenda" to support its mission and directly influence the European Commission on the importance of "Joining" for the development of the European Union. Eurico currently acts as Secretary of the Platform.

The involvement in standardisation activities (at ISO and CEN levels) has been crucial to the alignment of EWF qualifications and industrial standards in the relevant sectors. Between 2012 and 2016, Eurico was convener of the Standardization of Competence Area inserted in the Technical Committee of the EWF, and is currently the Portugal National representative at ISO/TC261 and CEN/TC438 – Additive Manufacturing, since January 2018, and the convener of ISO/ASTM /JG 74 – Training Personnel, since April 2018.

Eurico is also EWF representative in EFFRA, the European Factories of the Future Research Association and in the AM-Platform.