



Dear Photonics21 Secretariat

We herewith submit the nomination of the following Photonics21 Board of Stakeholder candidate (SPIE Europe Ltd) / Dr Kent Rochford.

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

## 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):**

**SPIE Europe Ltd**

- 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)):**

2 Alexandra Gate  
Ffordd Pengam  
Cardiff  
CF24 2SA  
United Kingdom

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

Dr Kent Rochford

- 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”*

- 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>**

*As SPIE's European office, SPIE Europe Ltd provides full access to all of SPIE's tools and opportunities. SPIE has a longstanding tradition of support of Photonics21 as well as a deep understanding of public policy engagement, and in matching up needs by the community with the opportunities provided by legislators.*

*Over the past few years, SPIE has been evaluating industry data worldwide and has produced results that are now available to the European and international Optics + Photonics community, and are being referenced in communications with local governments.*

---

<sup>1</sup> 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](https://www.photonics21.org/download/about-us/structure/ETP_Photonics21_Terms_of_Reference_C3.pdf?m=1513688127&?m=1499877714)

<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.

## Photonics21 Board of Stakeholders - Letter of Nomination

*With its international reach, SPIE has the opportunity to help support European programmes such as Gender Equity and Diversity worldwide and network European efforts by highlighting them through its Diversity taskforce and at events.*

*SPIE presents a number of highly-skilled individuals to teach further education in Optics and Photonics, and is therefore able to provide an insight into training required by companies. On a more junior level, SPIE provides K1-9 training materials to interest the younger generation in entering Optics and Photonics as a profession.*

*SPIE's student members are organized in an international student network in which European student chapters participate. This international platform prepares students to look beyond local opportunities and consider moving abroad, possibly taking up positions within the European Union and contributing to its industry.*

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

*Dr Kent Rochford is a highly collaborative, innovative, and resourceful leader with wealth of experience in strategic planning, operational oversight, management, and enhancement of increasingly complex technology organizations. He recently joined SPIE as CEO and brings with him broad technology knowledge with specialized expertise and education in optics and photonics. During his prior work at the National Institute of Standards and Technology (NIST), he gathered a deep understanding of public policy engagement strategies. Coordinating seven diverse laboratories, 2,800 staff and \$800M budget, two campuses and 6 satellite labs gained him experience of the full breadth of laboratory activity both in domestic and international constituencies, stakeholders, Congress, and advisory boards. Most recently, he:*

- Led laboratory strategic planning and new program starts, developed financial priority plans for quantum information science, artificial intelligence and engineering biology.*
- Led NIST's R&D portfolio, strategic research initiatives, and innovation programs, with direct accountability for high visibility NIST activities and Presidential directives.*
- Increased transparency within leadership team and improved multi-disciplinary decision making.*
- Improved risk/reward profile for NIST's "Innovation in Measurement Science" program.*
- Managed NIST measurement services and oversaw and cultivated international metrology relationships with other National Metrology Institutes and regional metrology organizations.*
- Launched equity in promotion workgroup to address gender pay-inequity issues.*

*In his previous position as Acting Undersecretary for Standards and Technology and NIST Director, he led the full range of NIST programs, operations, and finances which involved 3,400+ staff, \$1B+ budget comprising multiple revenue streams during transition. As part of his tasks, he led institute-wide strategic programming, budget planning and program execution, developed detailed plans to realize 35% cut for the U.S. Administrations' FY budget proposal, and championed revolutionary changes to improve delivery of support services to support science programs. He also led dramatic improvements in NIST's security posture, in advance of*

## Photonics21 Board of Stakeholders - Letter of Nomination

*external oversight, to protect the organizations important international collaborations and to preserve an open intellectual environment.*

*In addition to his executive positions at NIST, Dr. Rochford managed NIST's optics and photonics division in Boulder Colorado, providing measurement traceability to US and international companies, and interacted broadly with companies and organizations in the optics and photonics industry.*

*Outside of NIST, Dr Rochford has managed R&D at a multinational (Sharp Corporation) and an optical communications start up, and worked as a researcher in both large corporations (3M) and startups.*

*This combination of experiences enables Dr Rochford to support the Photonics PPP in defining new challenges to the industry, as well as up-and-coming topics which could contribute to honing Europe's competitiveness.*

### **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](mailto:secretariat@photonics21.org) .*

- *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 **21<sup>st</sup> September 2018.***