



Dear Photonics21 Secretariat

We herewith submit the nomination of the following Photonics21 Board of Stakeholder candidate (organization) / representative (person).

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

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§ 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):

Warsaw University of Technology

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)):

*Warsaw University of Technology
Pl. Politechniki 1, 00-661 Warszawa
Poland
Tax Payer Number PL 525 000 58 34*

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

Ryszard Piramidowicz

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

WUT is one of the founders (in 2005) and a key-player in the European Technology Platform Photonics 21 as well as the Polish Photonics Technology Platform. Prof. M. Kujawska, had been Vice-President of Photonics21 for 10 years and in the BoS for 13 years contributing to Photonics21 activities. WUT's members of Photonics21 participated actively in the works of nearly all Working Groups. WUT intends to continue and even extend its activity in Photonics21 and specifically in BoS.

The special focus of these future activities (now started at national level) includes: extension of education of optics and photonics workforce at all high education level in the area of special European areas of interest (Digitization of Europe, Industry 4.0, Space Exploration), de-

¹ 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

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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velopment of Regional Digital Innovation Hubs, development of global and local networks for optics and photonics technology transfer and wide promotion of optics and photonics.

WUT is a research intense, doctoral level academic institution focused on undergraduate and graduate programs almost exclusively in engineering and applied sciences. It is the largest and the highest ranked engineering university in Poland. WUT also has the strongest research representation of optics and photonics teams in Poland. Photonics at WUT is represented mainly by three teams, closely cooperating on the complementary topics of optics and photonics for many years and being simultaneously among the strongest research groups in photonics in Poland, namely: Institute of Micromechanics and Photonics IMP (from Mechatronics Faculty), Institute of Microelectronics and Optoelectronics IMO (from Electronics and Information Technology Faculty) and Division of Optics DO (from Physics Faculty). All three teams are internationally recognized for fundamental and applied research in the field of photonics devices and materials, optical metrology and sensing, fibre optics, laser technology, integrated photonics, photovoltaics, optoelectronics and image processing. WUT has solid relations with industry and with companies driving recent extensive investments in optics and photonics in Poland. The photonics teams have been for more than 30 years involved in several industrially oriented research projects and direct cooperation with industry incl. infrared devices (Polish Optical Centre, Vigo Systems), fibre optics sensors and telecommunication) (ORLEN, Telekomunikacja Polska S.A., FCA), measurements and monitoring (British Gas, Volkswagen Foundation, Electric Power Stations, Energodiagnostyka Ltd., ASTRI PL), multimedia (Hewlett Packard, Polish Television, Samsung, ETRI, Holography-Polska), automotive (Rolls-Royce, Kongsberg, CADM Automotive), art archiving (numerous museums in Poland) and medical community (close cooperation with 10 hospitals and (bio)medical centers). Within last 10 years a number of successful SMEs in photonics have been created from these teams.

WUT photonics teams play a significant role within the European photonics R&D landscape. IMP coordinated the European Network of Excellence (NoE) in Micro-Optics (2004-2009) in which it guided the networking, integration and research efforts of top groups in the field of measurements, characterization and testing and reliability of micro-optics. All 3 teams were leading partners in the European Center of Excellence in Microsystems. WUT leads the Polish Photonics Society and through it participates in joint initiatives such as PHOENIX - Photonics Optoelectronics Network. Through participation in numerous EU projects WUT enabled (together with its project partners) the transfer of new solutions in such exemplary areas as parallel, massive M(O)EMS testing , holographic display, standardization of optical strain measurements , art archiving , and medical diagnostics

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

Education. *Ryszard Piramidowicz received his PhD degree (2000) and habilitation (2013) from the Warsaw University of Technology.*

Professional. *Associate professor at the Institute of Microelectronics and Optoelectronics, WUT, since 2008 deputy director for research and contact person for industrial partners. Author*

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of >300 reviewed journal and conference publications. Scientific expertise covers research and development of novel active materials for photonics, optical spectroscopy, solid-state laser engineering, photovoltaics, fiber-optic communication and integrated photonics. Scientific experience complemented by nine years of work for R&D branch of Polish Telecom.

WUT's representative in Polish Committee for Standardization (Technical Committee no 282 – Fiber Optic Technology) and in National Smart Specialization no 15 - Photonics, vice-president of the Polish Committee of Optoelectronics of Association of Polish Electrical Engineers, member of OSA, IEEE and SPIE. CEO of Eastern Europe Design Hub (offering services in designing and characterization of application specific photonic integrated circuits) and CEO of Science Infrastructure Management Society.

Prof. Ryszard Piramidowicz was involved in >30 national-funded research projects covering the field of optical spectroscopy of laser materials, laser technique, fiber-optic communication and integrated photonics. He was also involved in several EU-funded collaborative research projects. Currently is leading four R&D projects in the field integrated photonics, optical sensing and fiber lasers technology.

Service for the community.

In a natural way prof. Piramidowicz can significantly contribute to Photonics21 Work Group 7 (Photonics Research, Education and Training) activities. He has over 25 years of experience in academia/teaching at the university level and has been a supervisor of over 40 bachelor and master students. Considering his expertise and currently undertaken applied research projects with respect to other Photonics21 work groups, prof. Piramidowicz can actively participate in the works carried out in WG 1 (Information and Communication), WG 3 (Life Science and Health), WG 5 (Security, Metrology and Sensors), WG 6 (Design and Manufacturing of Components and Systems).

Even though prof. Piramidowicz background is generally academia, he has also a long record/track of activities in the industrial/private sector and collaboration with business partners in the framework of R&D projects, funded both from public and private resources. His expertise is complemented by ten years of activity as a deputy director for research of IMO WUT, which resulted in gaining a deep knowledge about the photonics (and photonics-enabled) market in Poland. Undoubtedly, this experience can significantly help in understanding and thus also mitigate the major obstacles for collaboration between the public and private sectors.

Prof. R. Piramidowicz is nominated to BoS by Prof. M. Kujawińska (past VicePresident of Photonics21 (2005-2016) and member of BoS (2005-2018) from WUT. Prof. Kujawinska and Prof. Piramidowicz are jointly working for optics and photonics at both national and international arena and therefore Prof. Piramidowicz will also continue the line of Prof. Kujawinska activities in BoS.

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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 .

- *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 2018**.*