



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 732695



**PHOTONICS<sup>21</sup>**

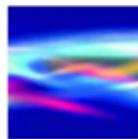
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# Empowering Photonics Regional Event: Berlin, 19<sup>th</sup> of October 2017

## Photonics in Advanced Analyses and Treatment of Water



**OpTecBB**



**EPRISE**  
EMPOWERING PHOTONICS

 **Berlin** Partner  
für Wirtschaft und Technologie

Wirtschaftsförderung  
Brandenburg | **WFBB**



## Agenda

9.00 -9.10	<b>Welcome and Introduction to EPRISE</b> Dr. Bernhard Hesse, (OpTec BB ), Dr. Anne Techen (WFBB)
9.10 -9.50	<b>On the speciation and travel of metallic (oxide) nanoparticles into waste water: Next destination? – a synchrotron study</b> Dr. Hiram Castillo, Scientist at the ESRF (Grenoble, France)
9.50 -10.10	<b>Assessment of nanoparticle size distribution in liquids through table top laser-spectroscopy</b> Dr. Jürgen Adolphs (CEO), Porotec GmbH
10.10 - 10.30	<b>Fast, specific, low cost: Laser spectroscopic identification of biotic and abiotic particles in water.</b> Dr. Markus Lankers (CEO), RAP-ID GmbH
10.30 – 10.50	<b>Coffee Break</b>
10.50 – 11.10	<b>UV light for water treatment: Applications and Challenges</b> Dr. Jutta Eggers / Technologie und Prüfstelle Wasser, TZW: DVGW-Technologiezentrum Wasser
11.10 – 11.30	<b>Hydroponic agriculture under controlled conditions.</b> Timo Bongartz / Nico Morgenbrod – OSRAM GmbH
11.30 – 12.50	<b>Short Presentations (8 min + 2 min discussion)</b> <ul style="list-style-type: none"><li>• Prof. Kreysig /Silvertex Aqua GmbH: Treatment of water by using silver coated fabrics</li><li>• Dr. Wolfgang Malzer &amp; Sebastian Praetz / BLIX- TU Berlin Chemical speciation of metals through laboratory X-ray technologies</li><li>• Dr. Armin Gross / BRUKER: Rapid and Cost-Efficient Monitoring of Wastewaters by TXRF Spectrometry</li><li>• Dipl. Chem. Frank Czernik /AVANTES</li><li>• Mathis Kuchejda / Schmidt &amp; Haensch: Inline monitoring of dissolved solids in water</li><li>• Dr. Adrian Mahlkow /OUT e.V.: Detection of single Bacteria in water</li></ul>



	<ul style="list-style-type: none"><li>Manuel Steidle on behalf of (i) WIER and KEMIA from Brasil: "Solutions for Wastewater treatment of landfill and industrial effluents in the context of the Brazilian industry" (ii) NEOPROSPECTA from Brasil: "Screening of biological contamination at the food supply chain in Brazil"</li></ul>
<b>12.50 – 13.50</b>	<b>- Lunch Break</b>
<b>13.50 – 14.15</b>	<b>Laser Induced Fluorescence (LIF) and light detection and ranging (LIDAR) technologies for water monitoring</b> CNR, Institute of applied physics "Nello Carrara" (IFAC) Italy, Dr. Valentina Raimondi
<b>14.15 – 14.40</b>	<b>Potentials and Challenges of Water Treatment with accelerated Electrons</b> Fraunhofer-Institut für Organische Elektronik, Elektronenstrahl- und Plasmatechnik FEP, Herr Rögner
<b>14.40 – 15.00</b>	<b>Funding and Innovation Infrastructure</b> Christian Wolf, Berlin Partner
<b>15.00 - 15.20</b>	<b>Coffee Break</b>
<b>15.20 – 15.50</b>	<b>Spreewald and water pollution</b> Prof. Brigitte Nixdorf , BTU
<b>15.50 – 16.05</b>	<b>Reduction of iron and sulfate - results from a pilot plant for groundwater remediation</b> FIB Forschungsinstitut für Bergbaufolgelandschaften e.V., Dr. Hildmann
<b>16.05 – 16.30</b>	<b>Podiums discussion: How to team up and initiate new projects in the Berlin-Brandenburg region? Summary and outlook on photonics roadshow 2018</b>



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Come and join us, register now for our workshop on “Photonics in Advanced Analyses and Treatment of Water”, October 19th in Berlin.

Photonics has been selected by the **European Commission** as one of the **key enabling technologies** to furthering technology in medical technologies, pharmaceuticals, agriculture and food. High quality (control) of water is of major importance in all four targeted markets and photonics plays a significant role in both the analyses and the treatment of water. The aim of this workshop is not only to exchange information on new technologies and trends in advanced analytics and treatments related to water but also to initiate new projects and new collaborations. Furthermore, within the workshop we will elaborate the challenges related to developments of new technologies and what could be improved to overcome them.

The program can be found here: <http://optecbb.de/lang/de/aktuelles/events.php#a661>

The participation is free of charge. However, we kindly invite you to register: [http://optecbb.de/lang/de/anmeldung\\_20171019\\_workshop\\_biophotonik.php](http://optecbb.de/lang/de/anmeldung_20171019_workshop_biophotonik.php)

The workshop takes place within the EPRISE (Empowering Photonics through Regional Innovation Strategies in Europe) project. EPRISE, a European funded H2020 project, supports SMEs working in the Photonics Industry to overcome market barriers.

The workshop is part of the Photonic Days Berlin Brandenburg with additional workshops and an exhibition with more than 50 German and international exhibitors. Further information can be found her: <http://www.photonik-tage-berlin.de/>



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## Empowering Photonics through Regional Innovation Strategies in Europe. EPRISE supports SMEs working in the Photonics Industry to overcome market barriers.

The project aims to promote and support Photonics as a Key Enabling Technology. It focuses on Life Science applications in markets where Europe holds a leading position: Medical Technologies, Pharmaceuticals, Agriculture and Food.

### Collaborative partnership

EPRISE has bought nine European photonic leaders together to support SMEs working in the Photonic Industry and overcome the market barriers.



The consortium will provide a series of European photonics **workshops**, with the aim of providing SMEs with **solutions** on how to overcome the market barriers and boost collaboration via pre-arranged B2B meetings.

The project will also look to coordinate regional, national and European **strategies and financial resources** to the benefit of the **local ecosystem** and the regional smart specialisation strategies.

Companies developing photonics-based products for these markets face highly specific **Go-to-Market challenges** such as long time to market adoption, complex regulatory frameworks and high barriers to market entry to name but a few. They are often in need of support from public funding to help them cross the “Valley of Death” between innovation and commercialisation.

Photonics has been selected by the **European Commission** as one of the **key enabling technologies** to furthering technology in Healthcare and Agriculture and Food.

Find more information at [www.eprise.eu](http://www.eprise.eu).

