

OpTecBB and BioPhoT Match Making Event

When: October 21st 2026, from 10:00 – 12:00 (CET)

Where: online, zoom

Event Flow

10:00 -
10:10

Welcome & Context Setting

Opening remarks by **Dr. Adrian Mahlkow (OpTecBB)** and **Dr. Janis Latvels (ISSP LU)**. Brief intro on collaboration goals.

10:10 -
11:10

Science Pitches

Rapid-fire presentations (max 5 min each) focused strictly on technology readiness and business application.

Institute of Solid State Physics, LU

15 min

- Polymer Photonic Platform for photonic integrated chip (PIC) fabrication. PIC designing and fabrication to develop unique photonic solution for market needs / **Dr. Aivars Vembris, Dr. Artūrs Bundulis, Laboratory of Organic Materials**
- From synthesis to applications of nanomaterials, coatings and ceramics to applications, technologies and devices / **Dr. Aleksej Zolotarjov, Optical materials Laboratory**
- Magnetron-Sputtered Functional Thin Films, including Roll-to-Roll Coatings / **Dr. Martins Zubkins, Thin Films Laboratory**

University of Latvia

10 min

- Functional luminophores for chemical and gas optical sensors
- Optical sensor for packed seafood freshness determination Freshwave

/ **Dr. Roman Vitter,**
Laboratory of Optical biosensors and functional nanomaterials

/ **Dr. Artis Kinēns, Institute of Atomic Physics and Spectroscopy**

Riga Technical University

20 min

- Nanophotonics i.e. optical tweezers, superscatterers, i.e. radar solutions (nanophotonics, optical tweezers, superscatterers, and radar solutions)
- Quantum communications, testbed offer (quantum communications, testbed offer)
- Robust EMI Protection for High-Integrity Cybersecurity Solutions (EMI-Shield)
- Optical interconnects (optical interconnects)

/ **Dr. sc. ing. Toms Salgals**

/ **Dr. sc. ing. Jurgis Poriņš,**
Dr. sc. ing. Rihards Mūrnieks

/ **Prof. Dr. sc. ing. Sergejs Gaidukovs**

/ **Dr. sc. ing. Oskars Ozoliņš**

11:10 -
11:50

Matchmaking & Deep Dive

Parallel Breakout Rooms by thematic areas (Scientists + Industry). Structured dialogue to identify project ideas.

Optional themes:

A: Optical Sensing & Diagnostics

B: Advanced Materials & Coatings

C: Quantum, Nanophotonics & Communications

BREAKOUT ROOM ALLOCATION

ROOM A: Optical Sensing & Diagnostics

Functional luminophores for chemical and gas optical sensors

Dr. Roman Vitter / University of Latvia (Laboratory of Optical biosensors and functional nanomaterials)

Optical sensor for packed seafood freshness determination "Freshwave"

Dr. Artis Kinēns / University of Latvia (Institute of Atomic Physics and Spectroscopy)

ROOM B: Advanced Materials & Coatings

Polymer Photonic Platform for photonic integrated chip (PIC) fabrication

Dr. Aivars Vembris & Dr. Artūrs Bundulis / ISSP LU (Laboratory of Organic Materials)

From synthesis to applications of nanomaterials, coatings and ceramics

Dr. Aleksej Zolotarjov / ISSP LU (Optical materials Laboratory)

Magnetron-Sputtered Functional Thin Films, including Roll-to-Roll Coatings

Dr. Martins Zubkins / ISSP LU (Thin Films Laboratory)

Robust EMI Protection for High-Integrity Cybersecurity Solutions (EMI-Shield)

Prof. Dr. sc. ing. Sergejs Gaidukovs / RTU

ROOM C: Quantum, Nanophotonics & Communications

Quantum communications, testbed offer

Dr. sc. ing. Jurgis Poriņš & Dr. sc. ing. Rihards Mūrnieks / RTU

Optical interconnects

Dr. sc. ing. Oskars Ozoliņš / RTU

Nanophotonics i.e. optical tweezers, superscatterers, i.e. radar solutions /

Dr. sc. ing. Toms Salgals / RTU

11:50 -
12:00

Wrap-up & Next Steps

Main take-aways from moderators and info about the next follow-up actions (e.g., 1-on-1 meetings, grant deadlines).

About



[Optec Berlin-Brandenburg \(OpTecBB\)](#) e.V. is the competence network for optical technologies and microsystems engineering in the federal states of Berlin and Brandenburg.

OpTecBB e.V. is an initiative of companies and research institutions in Berlin and Brandenburg committed to exploring and applying these technologies collaboratively.

OpTecBB today counts around 130 institutional members and is active in the fields of photonics and quantum technologies for communication and sensing, optical analytics, lighting technology, biophotonics and ophthalmic optics, laser technology, and microsystems engineering.



[BioPhoT](#) is a long-term national research platform consortium, formed by 8 leading Latvian research institutions and academia and specialised in the areas of Biomedicine, Medical Technologies, Pharmacy, **Photonics** and Smart Materials, Technologies, and Engineering Systems.

Its mission is to create innovative solutions with strong commercialization potential, foster collaboration with industry, and accelerate the path of new technologies to market.