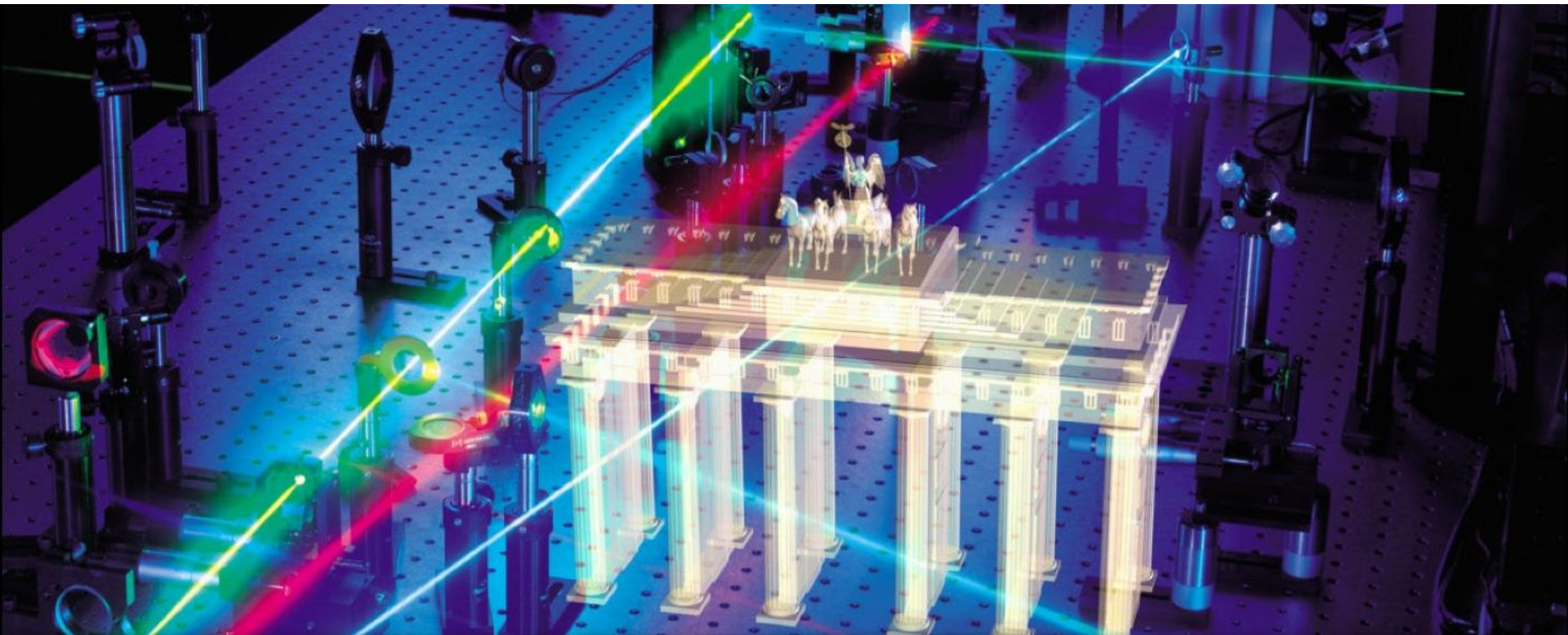


Optec-Berlin-Brandenburg (OpTecBB) e.V.

Dr. Janina Bolling



- Optec-Berlin-Brandenburg (**OpTecBB**) e.V. is *the competence network* for optical technologies and micro systems technologies in the federal states of Berlin and Brandenburg.
- **OpTecBB e.V. is an initiative of companies and research institutions in Berlin and Brandenburg that collaboratively explore and exploit the possibilities of these technologies**
- OpTecBB e.V. was **founded on September 14th 2000** by **companies, universities, research institutions and associations** and with the support of the **Berlin Senate** and the relevant **ministries in Brandenburg**
- **Today** the association has about **120 institutional members**.
- National collaboration in **OptecNet Deutschland e.V.** , the association of all German regional competence networks for optical technologies (more than 500 member organizations)
- Member of **European Photonics Industry Consortium (EPIC)** and engaged in **Photonics21**
- cooperating with **SPECTARIS** in all matters relating to foreign trade, regulatory affairs, and industry marketing

About the Photonics Cluster Berlin Brandenburg



- Cluster management: **OpTecBB**, **Berlin Partner** and **WFBB** (Economic Development Agency Brandenburg)
- Photonics has a **200 year tradition** in Berlin and Brandenburg.
- The innovative core of the cluster:
 - **445 technology oriented companies**
 - **10 universities and 26 non-university research organizations**
- **Approx. 16.600 employees** and approx. **2,8 bn. Euro revenues**
- Annual **growth (revenues)** on average **5 to 8%**, **export share 70 %**, **R&D share almost 10 %**.
- **Competences**
 - Lighting technology,
 - Laser technology,
 - Photonics and Quantum Technologies for Communication and Sensors
 - Optical analysis,
 - Biophotonics and Ophthalmic Optics
 - Microelectronic and Microsystems Technology
- **Support to Members**
 - recruitment,
 - qualification,
 - internationalization, market access,
 - start-up support, mentoring,
 - public relations, location marketing,
 - consultation to politics, lobbying,
 - cluster management.

Goal: Data collection of **plant material** for **knowledge-based, locally adapted, and sustainable** plant production using **photonics technologies**.

Challenge: Photonic technologies such as e.g. imaging and spectral measuring techniques are already used in agriculture, but restricted potential due to

- **limited data generation** due to one parameter sensors,
- **limited ability** of multi-dimensional approaches,
- the **variability** of biological samples such as cereals, fruit and whole trees, and the
- **costs** requested to implement the new technologies.

Scope: of the teamwork and future collaborations will be **photonics sensor technologies**, while **improving existing solutions** by making them **smaller, less energy** consuming, better (**higher resolution**), **cheaper**. In addition, sensor fusion, data collection and management including machine learning algorithms should be covered **helping farmers** to make smarter/faster, more economic crop management decisions.

AgriPhotonics - Project management

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Partners





We invite
small and medium sized companies,
research institutes
and the *big players*
to join or network

to strengthen the collective expertise and
knowledge in ArgriPhotonics.



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Save the date!

German-Israeli online **AgriPhotonics workshop** during the [Photonics Days Berlin Brandenburg 2020](#), on **October 7, 2020.**



Supported by:



on the basis of a decision
by the German Bundestag