



## SPIE BIOS / Photonics West 2016



Visit us at the SPIE trade fair in San Francisco from February 13 - 18 at booth 8725, Westhall (BIOS) and booth 830, Southhall (Photonics West).

### Highlights

- At this year's SPIE conference on «BIOS» in San Francisco, Dr. Denis Dorokhin, Project Manager R&D, Biochip will hold a presentation about «novel label-free biosensing technology for monitoring of aqueous solutions»
- Large Flow Cell Model
- Gesture Control Action Center

Discover unique solutions and the wide variety of applications for optical coatings and components. We are looking forward to welcoming you as our guest.

[more information](#)

## Monitoring Water Quality – here and now

### New Application Note available

To analyze the quality of aqueous solutions today, you need to take your sample and send it to the laboratory. The results will be available days later. Is there any faster way? – Yes, there is.

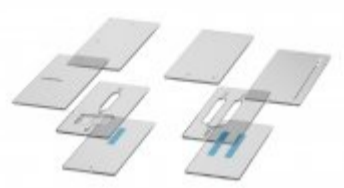


A new development allows this analysis to be carried out where you want and in almost real-time. A label-free optical biosensor measures the presence of desired analytes and the instrument makes the data available online. Such continuous monitoring provides both significant advantages in Quality Control as well as cost savings due to controlled amounts of additives required for the water treatment.

[read application note](#)

## Flow Cells

### New Datasheet available



Optics Balzers is introducing fabrication of robust glass flow cells in the product and capability portfolio. These components are well suited e.g. for diagnostic devices, flow visualization or micro-reactors. Thanks to the glue and adhesive free bonding technology an aesthetic finish as well as contaminant-free operation is achievable. The combination of 2 or more structured material layers enables realization of customized channel architectures.

External and internal surfaces can be further modified with optical coatings (e.g. IR mirrors, fluorescence filters, anti-reflex), nanostructures (e.g. grating structures) or biofunctional coatings (adhesion promoters, linker chemistry). Please refer to the data sheet for more detailed information.

[read datasheet](#)

## Silflex(TM) UV

### New Datasheet available

### High Reflectivity Silver Mirror from UV-A to the far infrared range



Silflex™ UV is a member of the Silflex™ – family, features a higher reflectivity in the UV-range as the other Silflex™ – mirrors. The Silflex™ UV is virtually insensitive to polarization, yet maintains more than 91% reflectivity in the ultraviolet range and up to more than 97% reflectivity in the infrared range.

[read datasheet](#)

## Laser & Space

### Updated Laser&Space Brochure available

New capabilities and new products are added in the program from Optics Balzers permanently. Thanks to the extended coating technology at the Jena site, new products are launched in the segment Laser & Space now.



High reflective laser mirrors offers a reflectivity of more than 99.99%. For the rising market of micro- and nano-material processing new ultra short pulses components (UKP) can be manufactured. Key challenge is the high level laser damage threshold (LDT) for these parts. The new UKP component reaches leading laser damage threshold values for several wavelengths from UV to the NIR.



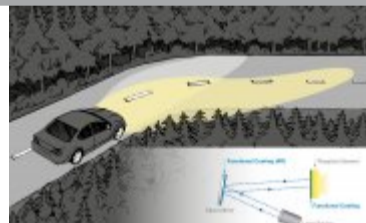
Pulse broadening during signal transmittance is a well know challenge for laser pulse used in pico- and femto-second laser application. To overcome this phenomenon so called "chirped mirror" are required. Different wavelengths pass the coating layers with different speed and the pulse itself is e.g. delayed. To overcome this effect, dispersion controlled mirrors can be designed. Our coating design and the available coating technology is precise adapted to build laser components which meets exactly the required spectral performance according to the customer's needs.

[Please find more information in the new Laser& Space Brochure](#)

## Automotive

### Updated Automotive Brochure available

As requirements for road safety and driving comfort increase, the demand rises for ADAS (advanced driver assistance systems) based on intelligent high-tech optical sensor and camera technology.



With precision optics from Optics Balzers innovative systems become a reality. Filters for optical sensors and ultra-thin high performance coatings are key components for the latest generation of near infrared-based active night vision systems, lane departure assistance, adaptive cruise control, head-up displays, laser based headlights and gesture recognition systems.

[Please find more information in the new Automotive Brochure](#)

## Our next Events

### Analytica, Munich, Germany

Visit us at Analytica in Munich from May 10-13 and meet with our expert for some specific advice. You will find us at Hall B1 Booth 125.

[more information](#)



Further information regarding our attendance of trade fairs will be posted regularly at [www.opticsbalzers.com/event](http://www.opticsbalzers.com/event).

Take a look!

## News from Marketing

The following application note, datasheets and brochures are available now:

### Application Note

OBA 001 AE Monitoring Water Quality – here and now

### Datasheet

OBA 058 PE Flow Cells

OBA 059 PE Silflex™

### Brochure

2015-10 Laser & Space

2015-10 Automotive

## Annual Closing

Optics Balzers AG, Site Balzers in Liechtenstein and Site Jena in Germany will be closed from December 23, 2015 to January 3, 2016 due to annual closing.