



## Global POWERPLAY in OPTICAL COATINGS and SOLUTIONS



### Upcoming Events

#### Asia Photonics Expo, Singapore, March 06 - 08

APE focuses on the latest cutting-edge innovative technologies and the emerging application markets in Asia, aiming to promote the in-depth communication and business collaboration between the photonics upstream and downstream professionals. Meet our experts at the booth #EG-10 in Hall E. [Learn more](#)



#### Analytica, Munich, Germany, April 09 - 12

Visit us at the world's leading trade fair for laboratory technology, analysis, biotechnology and analytica conference. Discover unique solutions and diverse applications with optical components at our booth #524B in hall A2. [Learn more](#)



#### DCS, National Harbor, Maryland, April 21 - 25

Don't miss the leading event where researchers and engineers share emerging technology in sensors, infrared technology, laser systems, spectral imaging, radar, lidar, AI/machine learning, and more. We have the pleasure of welcoming you at the SPIE Defense + Commercial Sensing at booth #630. [Learn more](#)



### Review BIOS & Photonics West

At the BIOS & Photonics West exhibition in San Francisco, which took place from January 27 to February 01, 2024, Materion Balzers Optics showcased its innovative optical coatings and components. Visitors had the opportunity to explore unique solutions and learn about a wide variety of applications for optical coatings. The MBO team was present at both shows, hosting several presentations, welcoming guests and engaging in meaningful discussions.



[More Events](#)

### New Application Note on MWIR Filters

#### Optical Filter Set for On-line and Real-time Dissolved Gas Analysis of Transformer Oils

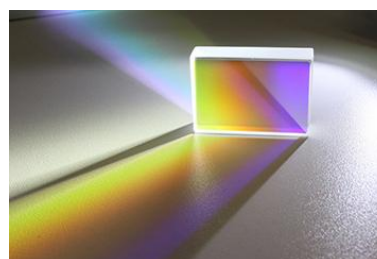
Dissolved Gas Analysis (DGA) is a pivotal technique in the realm of transformer diagnostics, offering a window into the internal health and functioning of power transformers. This analytical method involves the examination of gases present in the insulating oil of transformers, providing crucial insights into potential faults and abnormalities. As electrical equipment ages or undergoes stress, electrochemical processes can lead to the generation of specific gases, known as fault gases, which are indicative of degradation inside the transformer. [Download Application Note](#)



### Linear Variable Filters Whitepaper

#### How to optimize fluorescence imaging with linear variable filters (LVFs)

Fluorescence imaging is a widely popular method of molecule analysis in chemistry, biochemistry, and medicine, thanks to properties such as elevated sensitivity, enhanced specificity, simplicity in comparison to many alternative microscopic techniques, and the versatility to be used in living cells and organisms. Despite the success of using classical optical filters in fluorescence applications, challenges can often arise due to the diverse nature of fluorophores. As each fluorophore has a unique excitation and emission spectrum, different optical filters are required for different applications, which can lead to higher costs. This White Paper looks at linear variable filters (LVFs) as an alternative to more classical filters, and details their advantages compared to homogeneous filters. [Download Whitepaper](#)



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