

New edition – Semi Interface issue #5: Opto Datacom Technology – Download now!



In our regular Spring Opto & Datacom edition, we dive deep into:

- How mixed reality (MR) glasses, microLED displays, and VCSELs are redefining the future of digital experiences.
- Key industry updates, including Oxford Instruments' partnership updates with Coherent Corp. and AOI Inc. to scale InP wafer production, and our collaboration with Quantemol on advanced plasma R&D to support the next breakthrough in atomic-scale fabrication.

And more...

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PTIQ: Intelligent, Reliable, and Intuitive Software Control for Research and Production



Features:

- **Proactive readiness:** visual indicators predict process readiness, helping prevent issues before they occur.
- **Calibration & diagnostics:** advanced tools for fault finding, device fingerprinting, and in-situ calibration keep systems performing at their peak.
- **Data depth:** millisecond-level accuracy and 1,000-point logging deliver actionable insights for process optimization and repeatability.
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Boost your:

- System familiarization
- Technical knowledge
- Problem-solving capabilities
- Process optimization

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Regional Highlights

OI exhibited at EDTM in Malaysia



Sharing our experience and highlighting solutions for semiconductor device characterization, materials analysis, and advanced microscopy workflows.

[See our solutions for Failure Analysis →](#)

Oxford Instruments Hosted an OI Academy Webinar about Overcoming Interface Challenges in WBG Power Devices



In this webinar, our product manager and Dr. Arne Benjamin Renz from University of Warwick explored:

- How SiC and GaN enable high-efficiency power electronics
- Key interface, reliability, and yield challenges in WBG device fabrication
- High-volume ALD and ALE solutions for GaN power and RF manufacturing
- Surface engineering strategies to improve device performance and lifetime

If you missed the live session, it is now available on demand – click [here](#) to watch.

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