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External Light Sources for Co-Packaged Optics: Applications and Beyond

Tuesday, May 9, 2023 1:00 PM - 2:00 PM EDT

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.: About This Webinar

The networking and computing application landscape is evolving to be cost effective, bandwidth dense, and power efficient. These new requirements bring optics and electronic processors closer together in a single package or more commonly, as co-packaged optics (CPOs). The co-packaged optics arrangement works well for all other transceiver parts, except for the lasers. Lasers are better suited to be placed outside the package inside external light source (ELS) enclosures to support these new applications. Erman Timurdogan, Ph.D., discusses various external light source solutions with emphasis on performance and cost reduction.

Who should attend:

Engineers, R&D scientists, or manufacturers who utilize co-packaged optics in their applications. Those who are interested in the use of silicon photonics and lasers in multiple industries. Anyone working with electronics, lasers, and optic technologies in networking and computing applications.

About the presenter:

Erman Timurdogan, Ph.D., is the director of silicon photonics R&D at Lumentum, focusing on next-generation integrated laser and silicon photonics platforms. Prior to joining Lumentum, he was the director of photonics high-speed design at Rockley Photonics and before this, he served as the director of optical communications engineering at Analog Photonics. In these roles, Timurdogan directed silicon photonics (SiPho) teams. With his teams, he led the design, modeling, layout, wafer-scale verification, and commercialization of SiPho process design kits and +400G DR4/FR4 datacenter transceiver chipsets. He received his doctorate in electrical engineering and computer science from the Massachusetts Institute of Technology (MIT). During his studies at MIT, he demonstrated 3D-integrated low-power silicon electronic-photonic communication links on 300 mm silicon-on-insulator wafers. He has 15 granted patents and authored over 75 peer-reviewed publications including four publications for Nature Publishing Group.

About the sponsor:

Yokogawa Test&Measurement is an industry-leading innovator of precision-based optical test and measurement solutions. Known as the most trusted optical spectrum analyzers on the market, their lineup includes the award-winning AQ6380 OSA that combines high resolution (5 pm), high wavelength accuracy (+/- 5 pm), high sensitivity (-85 dBm), fast measurement speed (sub-second), and a broad wavelength range (1200 to 1650 nm) into a single grating-based instrument with enhanced automation for multiple measurement workflows.



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