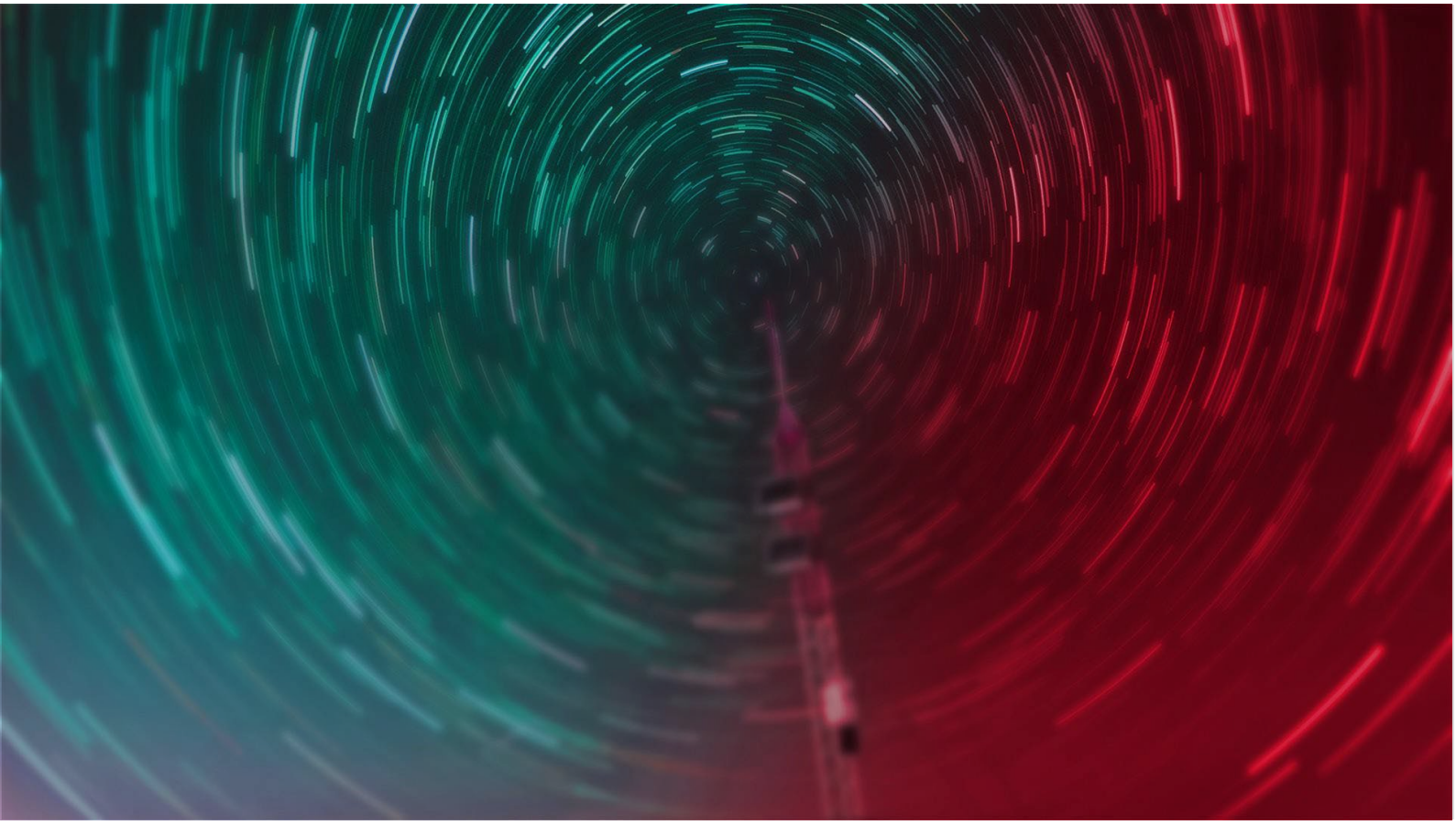


Sivers Insights

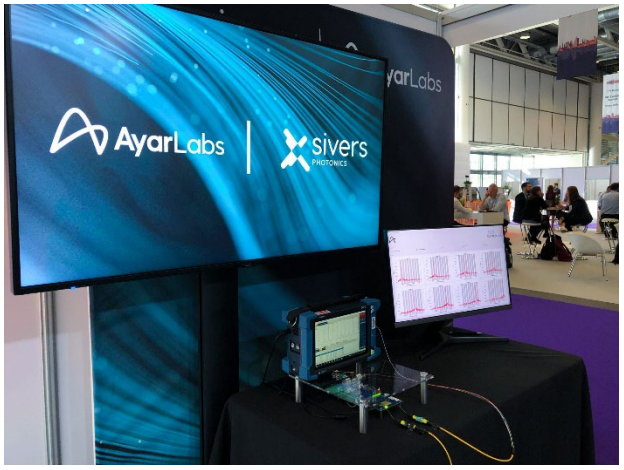
Sivers Photonics ECOC 2022 Roundup

It was an action-packed week in Basel, with an on booth live demo, talking at the market focus session and a busy meeting schedule with existing and new customers and partners.

The European Conference on Optical Communication (ECOC) is as one of the leading conferences on optical communication attracts scientists and researchers from across the world. Not only top universities, but also the world's biggest and most influential companies present their astonishing breakthroughs from materials and devices to systems and networks, and their insightful visions for the future. ECOC is the key meeting place to share knowledge, exchange ideas, foster innovation and start collaborations on a global level.

Ayar Labs and Sivers Photonics Booth Demo

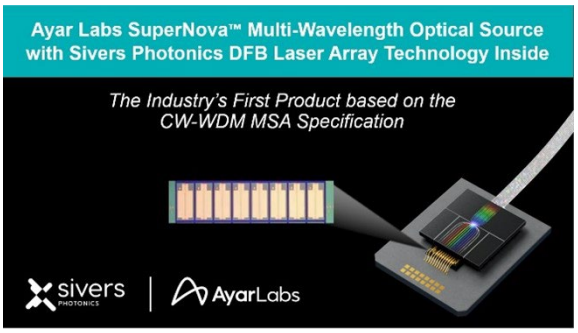
We kicked of the week on the booth with our demo, which ran throughout the three-day exhibition. Teams from both Sivers Photonics and Ayar Labs were present. The joint demonstration showcased the 8-wavelength DFB laser array from Sivers Photonics, powering two Ayar Labs SuperNova™ modules. Each module had 64 total wavelengths (8 discrete wavelengths across 8 optical fibers) running without active cooling.



The SuperNova™ optical source from Ayar Labs, provides up to 16 wavelengths of light, powering up to 16 ports. Combined with Ayar Labs' TeraPHY™ optical I/O chiplet, the leading solution is

configurable up to 256 Gb/s per port enabling a total bandwidth of 2 Tb/s per chiplet, providing up to 1000 x the bandwidth at 1/10 of the power compared to electrical I/O alternatives

These two technologies will help build a strong ecosystem of suppliers and partners, enabling a leap in efficiency, cost, and bandwidth scaling, compared to current technology for emerging applications such as Artificial Intelligence, High Performance Computing, and high-density optics.



Andy McKee, CTO, Delivers Talk at Market Focus Session

Our CTO, Andy McKee, presented "Advanced InP DFB Laser Sources for Silicon Photonics Hybrid Integration", on the Market Focus stage in the exhibition area on Monday 19th September. Andy's talk highlighted Sivers' capability to support the Silicon Photonics eco-system with our DFB lasers, built in our UK fab on our InP100 indium phosphide product platform.

CW-WDM MSA at ECOC 2022

Many members of the CW-WDM MSA were present at the show including imec, Lumentum, Macom and Intel. Established in 2020, the CW-WDM MSA was formed to standardize WDM CW sources in O-band for emerging advanced integrated optics applications that are expected to move to 8, 16, and 32 wavelengths.

As founding and promoter members of the Continuous-Wave Wavelength Division Multiplexing Multi-Source Agreement (CW-WDM MSA), the solutions on show at ECOC 2022 from both Sivers Photonics and Ayar Labs are both fully MSA compliant.

Chair of MSA, Chris Cole, took to the Market Focus Stage to present "Specifications for Multi-Wavelength Advanced Integrated Optics?" The slides are now available on the MSA website www.cw-wdm.org

We will be taking part in the ECOC Virtual Catchup, taking place online from 11-13 October 2022. We look forward to seeing you again (virtually) next week!

William McLaughlin
Managing Director
Sivers Photonics