

PRESS RELEASE

## **Prestigious IEEE Best Paper Award Recognizes Rockley Photonics' Pioneering Work on Co-Packaged Optics**

Oxford, UK and Pasadena, California, 15 June 2021 – The IEEE Communications Society announced that the 2021 Charles Kao Award for Best Optical Communications & Networking Paper has been awarded to a team of Rockley Photonics authors for their paper entitled “Reimagining datacenter topologies with integrated silicon photonics,” published in the July 2018 edition of the IEEE/OSA Journal of Optical Communications and Networking (JOCN).

The paper presents Rockley Photonics' pioneering work in the field of co-packaged optics (CPO), demonstrating the technical feasibility of integrating CMOS switching functionality with single-mode optical interfaces within the same package.

“IEEE awards represent the pinnacle of technological achievement and we're extremely proud of our team's success,” said Dr Andrew Rickman, chief executive, Rockley Photonics. “Co-packaging optics with electronics enables us to rearchitect the data center network, which is fundamental to increasing bandwidth and reducing power.”

Rockley is leveraging CPO to design high-density pluggable optical modules with at least 800Gb/s of capacity.

The IEEE Communications Society Awards Committee evaluates nominated papers based on the extent to which the works open new lines of research, envision bold approaches to optical communication and networking, formulate new problems to solve, and essentially enlarge the field of optical communications and networking. Papers published in the prior three calendar years of JOCN are eligible for the award. The key selection criteria are quality, exposition, novelty, and impact.

Rockley is in the process of leveraging its versatile platform in the consumer healthcare space, which it believes will drive wafer volumes and economies of scale that will ultimately benefit a variety of market verticals. This work establishes the capability of Rockley Photonics' uniquely sensing platform to address next-generation data communications.

### **About Rockley Photonics**

Rockley is a leading integrated photonics chipset developer and module supplier for high-volume sensor and communication products. Formed in 2013, Rockley is led by Dr Andrew Rickman, the founder of the first commercial silicon photonics company, Bookham Technology.

Rockley has positioned itself for hyper-scale manufacture with a uniquely capable platform that can address multiple huge and emerging markets, including health monitoring in consumer devices, data communications and machine vision.

Rockley has partnered with multiple Tier-1 customers across the markets it serves to deliver the complex optical systems required for transformational product realization. To learn more about Rockley, visit [www.rockleyphotonics.com](http://www.rockleyphotonics.com).

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