

## **CompoundTek to launch Partnership with Lumerical and others on Enhanced Silicon Photonics PDK with live demo at OFC2019**

*Photonics design automation accelerates prototyping silicon photonic integrated circuit designs with CompoundTek's foundry services*

**Singapore, 13 February 2019** – [CompoundTek](#), a global foundry services leader in emerging silicon photonic (SiPh) solutions announces the availability of an enhanced Process Design Kit (PDK) developed in collaboration with leading photonic simulation software provider, [Lumerical](#). In combining Lumerical's photonics design automation for accelerated PIC design prototyping, with CompoundTek's proprietary foundry services, the SiPh PDK strengthens CompoundTek's efforts in driving customers' process efficiencies by accelerating their time-to-market.

This enhanced SiPh PDK will be offered through the implementation of a reliable compact model library (CML), which includes active and passive devices such as optical waveguide devices, fiber-to-waveguide couplers, high speed waveguide Ge photo-detectors and high-speed modulator. It allows SiPh designers to leverage pre-developed blocks to design and verify their photonics products more quickly and efficiently before fabricating physical prototypes. These predictive capabilities enable photonics designers to validate designs prior to manufacturing.

Lumerical's Chief Technology Officer, Dr. James Pond, in announcing this collaboration said, "We are excited to partner with the industry's leading SiPh foundry service provider, CompoundTek, to provide a reliable CML for accurate time and frequency domain simulation using Lumerical's PIC simulator, INTERCONNECT."

Adds Mr. K.S. Ang, Chief Operating Officer of CompoundTek, "This milestone partnership with Lumerical speaks to CompoundTek's commitment in supporting our existing and potential customers' endeavors to improve their productivity in SiPh design. Together with our design partners, this photonics design automation solution together with our open SiPh manufacturing process platform, will accelerate the adoption of SiPh solutions for various applications ranging from datacom transceivers, smart sensor, bio-medical, automotive LiDAR, quantum computing and artificial intelligence."

Singapore-based CompoundTek boasts of an operation that include strategic partnerships with a leading fabrication service provider in Malaysia and renowned global SiPh research institutes, offering solutions increasingly sought after by SiPh players globally from start-ups to Fortune 500 entities.

The partnership will kick off with presentations of live demos at CompoundTek (#6105) and Lumerical (#5438) booths during the Optical Fiber Communication Conference and Exhibition 2019 (OFC2019) from 5<sup>th</sup> - 7<sup>th</sup> March 2019 at the San Diego Convention Centre.

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## About CompoundTek Pte Ltd

Founded and supported by industry veterans and technologists, Singapore-based CompoundTek combines world-class commercial foundry with leading silicon photonics (SiPh) research institutes to provide cutting-edge SiPh technologies that enhance foundry services capabilities. As one of the elites offering SiPh solutions internationally, CompoundTek brings to the marketplace revolutionary semiconductor applications designed to meet critical requirements in high bandwidth and high data transfer solutions particularly in emerging connectivity driving Industry 4.0. The company's in-depth know-how includes end-to-end technologies - from proprietary fabrication process expertise to product design support with strategic partners and extended services for end-product manufacturing. CompoundTek's global customers span leading brands and FORTUNE 500 companies in high-growth industries including artificial intelligence, automotive, bio-medical diagnostics, data centre, lidar, smart sensor, telecommunication and quantum optical computing.

Visit <https://compoundtek.com/our-solutions/> for more information.

## About Lumerical

Lumerical develops photonic simulation software – tools which enable product designers to understand light, and predict how it behaves within complex structures, circuits, and systems. Since being founded in 2003, Lumerical has grown to license its design tools in over 50 countries and its customers include 10 of the top 15 companies in the S&P 1200 Global IT index, and 46 of the top 50 research universities as rated by the Times Higher Education rankings. Lumerical's substantial impact on the photonic design and simulation community means its tools are among the most widely cited in the scientific press, with references in more than 10,000 academic publications and patents. Lumerical enables its customers to achieve more with light and establish a leading position in the development of transformative technologies employing photonics.

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