ActLight and A*STAR IME Collaborate on New "Dynamic Photodiode"

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ActLight SA and A*STAR Institute of Microelectronics (IME) of Singapore have successfully built the "Dynamic Photodiode" using A*STAR IME's photonics technology. ActLight's patented Dynamic Photodiode technology introduces a new way of using a photodiode providing advantages such as high output signal and low noise. Due to its high internal gain the Dynamic Photodiode eliminates the need for any amplifier and can interact directly with CMOS circuits.

ActLight and A*STAR IME have been collaborating for 18 months to co-develop a prototype of ActLight's Dynamic Photodiode implemented on A*STAR IME's established silicon photonics technology.

In parallel, ActLight has validated their technology by using a standard CMOS process with excellent results that confirms the advantages of ActLight's Dynamic Photodiode implemented with today's standard CMOS technologies.

This co-developed photodiode represents an ideal solution for companies that want to implement a low power, sensitive and easy to integrate photo detector for applications in mobile devices, medtech, data communication, etc.

"Our Dynamic Photodiode has applications in proximity sensors, gesture control sensors, and in the futurelight data transfer and 3D cameras," said Dr. Serguei Okhonin, ActLight CEO. "Leveraging this breakthrough and proprietary technology, ActLight sees potential for explosive growth in different verticals such as mobile technology and medtech. We see considerable interest from industry for our innovation."

"A*STAR IME is pleased to share our R&D expertise with ActLight and contribute to the success of this collaboration through our deepened capabilities in silicon photonics," said Prof Dim-Lee Kwong, Executive Director of A*STAR IME. "Our synergistic efforts will continue to drive innovative solutions in the field of advanced microelectronics especially as the industry progresses towards heightened performance and increased energy efficiency in semiconductor devices."

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About ActLight SA

ActLight SA is a Switzerland based fabless startup company with focus on innovations and intellectual property related to its innovative CMOS photonics technologies.ActLight technologies come from new groundbreaking innovationsin photonics.This is a result of ActLight teamwork in the forefront of different CMOS technologies for the last 20 years.
ActLight has been listed on the EETimes global list of "60 emerging silicon startups" and it was selected by Gartner as a "2013 Cool Vendor" in the semiconductor space. ActLight is also the winner of the Red Herring 2014 Europe Top 100 Award.

For more information about ActLight, please visit http://act-light.com

About A*STAR Institute of Microelectronics (IME)

The Institute of Microelectronics (IME) is a research institute of the Science and Engineering Research Council of the Agency for Science, Technology and Research (A*STAR). Positioned to bridge the R&D between academia and industry, IME's mission is to add value to Singapore's semiconductor industry by developing strategic competencies, innovative technologies and intellectual property; enabling enterprises to be technologically competitive; and cultivating a technology talent pool to inject new knowledge into the industry. Its key research areas are in integrated circuits design, advanced packaging, bioelectronics and medical devices, MEMS, nanoelectronics, and photonics.

For more information about IME, please visit http://www.ime.a-star.edu.sg

About the Agency for Science, Technology and Research (A*STAR)

The Agency for Science, Technology and Research (A*STAR) is Singapore's lead public sector agency that fosters world-class scientific research and talent to drive economic growth and transform Singapore into a vibrant knowledge-based and innovation driven economy.

A*STAR oversees 18 biomedical sciences and physical sciences and engineering research entities, located in Biopolis and Fusionopolis, as well as their vicinity. These two R&D hubs house a bustling and diverse community of local and international research scientists and engineers from A*STAR's research entities as well as a growing number of corporate laboratories.

For more information on A*STAR, please visit www.a-star.edu.sg