

- PRESS RELEASE -

CST and Luceda partner for optical integrated circuit design

Anaheim, CA, US, March 22, 2016 – CST - Computer Simulation Technology AG (CST) and Luceda Photonics announce their partnership to make layout, physical simulation and circuit simulation of optical components easily available within a single framework at OFC, booths 1651/1653.

Photonic Integrated Circuits are on the rise and this trend is anticipated to accelerate in the future. The design of such circuits typically involves multiple steps, including circuit simulation and layout. Circuit components are usually based on Photonics Design Kits (PDKs) provided by foundries, and full-wave photonic simulation of components is often needed to extract more accurate component models, or to study the effect of heat on the component.

The new link between the IPKISS Design Framework and CST STUDIO SUITE® (CST S2) allows the engineer to add the power of highly accurate full-wave photonic simulation at the push of a button. IPKISS will automatically create ready-to-run projects that can be simulated using CST® advanced solver technology, with methods including FIT/FDTD (including GPU acceleration), FEM, and more. Simulation strategies can be perfected and re-used, streamlining the workflow. Results from the simulation are automatically transferred back to IPKISS and can be used to improve the accuracy of the overall photonic circuit simulation. The CST S2-IPKISS link assures that PDKs can now include parameterized devices that are completely pre-configured for physical simulation. This means the circuit designer does not have to set up the FDTD settings at each simulation run. The intuitive and user-friendly CST STUDIO SUITE GUI makes it easy even for novice users to investigate and understand the field results of the photonic simulation.

“This new link combines the strengths of IPKISS and CST STUDIO SUITE – and it is virtually seamless”, said Dr. Frank Scharf, Principal Engineer, CST. “The power and usability of Luceda’s IPKISS framework makes it a strong tool in the photonic design workflow and we’re delighted to be able to integrate our products.”

“Many design teams in tele- or datacom face design challenges in both the optical as well as the MW&RF domain”, said Pierre Wahl, co-founder of Luceda Photonics. “With the CST S2-IPKISS link, our

customers can use the same world-leading solution to run simulations in both domains using the same GUI and simulation engines and will be able to address all their simulation needs without the need to acquire different design tools.”

CST and Luceda will be presenting the CST S2-IPKISS link at OFC at neighboring booths #1651 and #1653

About CST

Founded in 1992, CST offers the market’s widest range of 3D electromagnetic field simulation tools through a global network of sales and support staff and representatives. CST develops CST STUDIO SUITE, a package of high-performance software for the simulation of electromagnetic fields in all frequency bands, and also sells and supports complementary third-party products. Its success is based on a combination of leading edge technology, a user-friendly interface and knowledgeable support staff. CST’s customers are market leaders in industries as diverse as telecommunications, defense, automotive, electronics and healthcare. Today, the company enjoys a leading position in the high-frequency 3D EM simulation market and employs 300 sales, development, and support personnel around the world.

CST STUDIO SUITE is the culmination of many years of research and development into the most accurate and efficient computational solutions for electromagnetic designs. From static to optical, and from the nanoscale to the electrically large, CST STUDIO SUITE includes tools for the design, simulation and optimization of a wide range of devices. Analysis is not limited to pure EM, but can also include thermal and mechanical effects and circuit simulation. CST STUDIO SUITE can offer considerable product to market advantages such as shorter development cycles, virtual prototyping before physical trials, and optimization instead of experimentation.

Further information about CST is available on the web at <https://www.cst.com>.

About Luceda Photonics

Luceda Photonics wants photonic IC engineers to enjoy the same first-time-right design experience as electronic IC designers. Luceda Photonics’ tools and services are rooted in over 50 years of experience in photonic integrated circuit (PIC) design. The team’s expertise in the development of process design kits (PDK) and the design and validation of photonic integrated circuits is used by several research institutes and industrial R&D teams worldwide. The company started as spin-off from imec, the photonics group of the UGent and the VUB.

Further information about Luceda Photonics is available on the web at
<https://www.lucedaphotonics.com>.

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