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For immediate release.

Iain Eddie, of CST Global, presents his white paper on high-speed, 850nm VCSELs, at the VCSEL Conference, June 2017.

CST Global a wholly owned subsidiary of Sivers IMA Holding AB and UK's leading, independent, III-V opto-electronic, semiconductor foundry is pleased to confirm that project engineer, Iain Eddie, is a guest presenter at the VCSEL Conference, 8th and 9th June 2017, in Cardiff. Iain will present his white paper on high-speed 850nm VCSELs, demonstrating how data transmission rates of 50Gb/s can be achieved.

VCSELs (Vertical Cavity Surface Emitting Lasers) are a recognized, essential building block of modern, optical, communication systems. They offer a high bandwidth, power-saving and low-cost solution for the Active Optical Cable (AOC) links used within next-generation, data centres and high-performance computing.

Iain Eddie explains, "The VCSELs and GaAs PIN photo-diodes used in AOCs must deliver 50Gb/s or more, to meet anticipated demand. We have designed and fabricated new 850nm VCSELs and photo-detectors with low capacitance for high-speed operation. We have then, successfully, demonstrated how VCSEL

aperture size can enable modulation bandwidths of up to 27GHz with data transmission rates of up to 50Gb/s.”

Iain Eddie’s white paper provides a summary report for the ADDAPT project (Adaptive Data and Power Aware Transceivers for Optical Communications), a Seventh Framework Programme (FP7) funded by the European Commission. This project seeks to combine the complementary competences of two universities and three commercial organisations, including device manufacture by CST Global.

Contact CST Global on 01698 722072 or visit www.CSTGlobal.uk for more information.

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