June 13, 2013

Dr. Thomas Vogelsang of Rambus to Present at the International Image Sensor Workshop 2013

SUNNYVALE, Calif. & SNOWBIRD, Utah--(BUSINESS WIRE)-- Rambus Inc. (NASDAQ: RMBS):

Who: Rambus Inc. (NASDAQ: RMBS)

Where: IISW 2013
Snowbird, Utah

When: June 12 — 16, 2013

Sunday, June 16, 2013

Title: "Overcoming the Full-Well Capacity Limit: High Dynamic Range Imaging Using Multi-Bit Temporal Oversampling and Conditional Reset"
10:45 am
Thomas Vogelsang, Michael Guidash, Song Xue, Rambus

The dynamic range of current CMOS image sensors are is limited by each pixel's "full-well" capacity, which is the ability of the pixel to collect photo-electrons into a quantum well bucket during the exposure period. Binary pixels employ advanced oversampling methods where each pixel has an order of magnitude higher effective full-well capacity compared to conventional CMOS active pixels, resulting in images with a corresponding improvement in dynamic range.

During this presentation, Dr. Vogelsang will discuss the system design of the Rambus Binary Pixel technology, introduced earlier this year. Specifically, he will describe how the high dynamic range image sensor oversamples the incident light by using the ADC output at each sampling and resetting the pixel only if a threshold has been exceeded. Dr. Vogelsang will present results from an image sensor test-chip that demonstrates dynamic range extension by a factor of 14 compared to a conventional sensor in the same technology.

About Rambus Inc.

Rambus is the innovative technology solutions company that brings invention to market. Unleashing the intellectual power of our world-class engineers and scientists in a collaborative and synergistic way, Rambus invents, licenses and develops solutions that challenge and enable our customers to create the future. While best known for creating unsurpassed semiconductor memory architectures, Rambus is also developing world-changing products and services in security, advanced LED lighting and displays, and immersive mobile media.

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