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Sigma Labs and 3DSIM Release Simulation Capability to Model Thermal Sensors for Metal Additive Manufacturing Processes

SANTA FE, N.M., Nov. 09, 2017 (GLOBE NEWSWIRE) -- Sigma Labs, Inc. (NASDAQ:SGLB) ("Sigma Labs" or the "Company"), a provider of quality assurance software under the PrintRite3D® brand, today announced that the Company and 3DSIM (www.3dsim.com) have partnered to bring their customers closer to the reality of full process control over the metal additive manufacturing (AM) process which was, until today, a challenge for AM part designers and manufacturers. 3DSIM, an AM simulation leader, has jointly developed with Sigma, a new capability for 3DSIM's FLEX™ software that simulates the thermal sensors' response to the metal AM process. FLEX™ is the newest software from 3DSIM, the full commercial version of which is scheduled to be released in early 2018.

"3DSIM's new FLEX™ capability is a critical piece in the AM digital thread. Our joint customers can now spend more time at the front-end, running realistic simulations, which when coupled with the missing link, PrinRite3D®, in the digital thread from process characterization and process qualification to part certification," said Mark Cola, President and CTO of Sigma Labs.

"FLEX users can run a simulation that predicts what a high speed, non-contact pyrometer in their AM machine would "see", much like a "print preview" function for word processing software. There are many competitors in the market claiming the ability to simulate portions of the AM process. 3DSIM is the only company that provides a commercially available tool that simulates the response of sensors in an AM machine. By predicting PrintRite3D® outputs, Sigma Labs and 3DSIM together offer unparalleled capability for their customers," says Dr. Brent Stucker, CEO of 3DSIM.

Both Sigma Labs and 3DSIM will be demonstrating their capabilities at the upcoming FORMNEXT 2017 in Frankfurt in November in booths 3.0-F51 and 3.1-D48 respectively.

About Sigma Labs, Inc.

Sigma Labs provides the aerospace and defense industries with a sensor based software system that can detect flaws in metal parts as they are being manufactured using 3D printing. If adopted by the industry, Sigma Labs' products would provide dramatic savings to the Company's clients and facilitate an industry-wide transition from traditional multi-part manufacturing to real time plug and play 3D manufacturing for high strength metal parts. The Company's clients include GE, Honeywell, Siemens, Woodward, Aerojet Rocketdyne and others. For more information please visit us at www.sigmalabsinc.com.

About 3DSIM LLC

3DSIM develops the world's most powerful simulation software for metal Additive Manufacturing. The company is led by CEO, Dr. Brent Stucker, a leading authority on AM for 25 years and a corporate team that boasts 100+ years of combined AM experience. 3DSIM's software tools empower manufacturers, designers, materials scientists, and engineers, to achieve consistent success through simulation-driven innovation rather than physical trial-and-error. Customers include aerospace and automotive OEMs, AM parts manufacturers, metal AM machine manufacturers, universities and leading national & international labs. www.3dsim.com

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