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DfR Solutions Addresses Electronics Risks in Harsh Environments

Dr. Craig Hillman to present at SMTA Europe Conference

Beltsville, MD – April 12, 2018 – DfR Solutions, leader in quality, reliability, and durability (QRD) solutions for the electronics industry, today announced that Dr. Craig Hillman, CEO of DfR Solutions is speaking at the SMTA Europe Electronics in Harsh Environments Conference in Amsterdam, Netherlands. Dr. Hillman will present *How to Design for Reliable Operation at 150C and Higher Temperatures: An Update* at the Automotive Session on April 26, co-hosted by iNEMI. Dr. Hillman is one of three automotive electronics experts to be speaking on the panel.

With technology proliferation into automotive and avionics, electronics must be designed to operate reliably at temperatures between 150°C and 175°C. Dr. Hillman will present insights and tradeoffs in designing passives, crystals, magnetics, discretes, integrated circuits, connectors, PCBs and solders to operate reliability within high temperature environments. Dr. Hillman will show how Physics of Failure models can be used to understand the risks of high temperature environments over time and how to effectively mitigate those risks through circuit design, derating and material selection.

The Electronics in Harsh Environments Conference (24-26 April), sponsored by SMTA Europe, tackles the challenges and best practices for building reliable electronic devices that will perform to design standards when used in harsh environments (elevated operating temperatures, high humidity, vibration and more). The three-day conference will also cover topics such as reliable high-density assemblies, power electronics, electric hybrids, product assembly challenges, cleaning, coating, process control, and monitoring and tracking production hardware. Challenging areas such as high-temperature soldering, solder material advances, and new standards will also be addressed.

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'I'm honored to be invited to speak at this important European electronics conference,' said Dr. Craig Hillman, CEO of DfR Solutions. 'Increasingly, more complex electronics are being exposed to harsh environments that can be detrimental to their performance and reliability,' stated Hillman.

'Understanding the factors that cause electronics to fail and predicting those failures in advance is critical to safety,' said Hillman. 'Our Reliability Physics modeling and simulation software, Sherlock, is the only tool to predict electronics failures before they ever happen,' noted Dr. Hillman.

About Sherlock Automated Design Analysis™ Software

Sherlock is the first-of-its-kind Automated Design Analysis software for analyzing, grading, and certifying the expected reliability of products at the circuit card assembly level. Based on Reliability Physics, it is used by the electronics industry across all markets. Sherlock continues to evolve, incorporating new innovations and enhancements allowing users to manage increasingly complex analyses faster and more efficiently than ever before.

About DfR Solutions

DfR Solutions has world-renowned expertise in applying the science of Reliability Physics to electrical and electronics technologies and is a leading provider of quality, reliability, and durability (QRD) research and consulting for the electronics industry. The company's integrated use of Reliability Physics and Best Practices provides crucial insights and solutions early in product design and development and throughout the product life cycle. DfR Solutions specializes in providing knowledge- and science-based solutions to maximize and accelerate the product integrity assurance activities of their clients in every marketplace for electronic technologies (consumer, industrial, automotive, medical, military, telecom, oil drilling, and throughout the electronic component and material supply chain). For more information regarding DfR Solutions, visit www.dfrsolutions.com.

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