

FOR IMMEDIATE RELEASE

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PRESS RELEASE

MacDermid Alpha's Electrolube Awarded NextGen Best Paper

MacDermid Alpha Electronics Solutions, a global supplier of integrated solutions from our Circuitry, Assembly and Semiconductor divisions that provides unmatched capabilities in electronics design and manufacturing, is pleased to announce that Electrolube's Senior Technical Manager, Beth Turner, has been awarded NextGen Best Paper. The paper, entitled "Bio-based Encapsulation Resins: Good for the Environment, Good for Your Environment", was selected by the IPC Technical Program Committee for its thought-provoking, well-researched analysis of bio-based chemicals that led to the development of Electrolube's breakthrough bio-resins range.

Toya Richardson, from the IPC's Technical Program Committee comments, "Beth did an excellent job and the award is very well deserved for such a well-structured paper, filled with excellent research methodologies into emerging bio-based chemicals for electronics protection. The paper reflects extremely well upon both Beth and Electrolube, particularly as all of the papers were of such a high standard."

Visitors at the IPC APEX EXPO technical conference had the opportunity to attend Beth's presentation of her award winning Bio-Resins paper. Electronics protection is critical to extending the lifetime and performance of devices and Beth has examined the future of how going green could impact polymers used

for electronics ruggedisation. The emergence of bio-based alternative products has occurred due to reduced fossil fuel dependency in the chemical industry and this paper outlines the difference in performance between different biogenic waste powders and investigates the performance differences between bio-based polymer and synthetic polymers.

The Bio-Resins paper explores bio-based chemicals and their origins (biomasses, feedstock, plants, and biological waste), as well as the performance impact in harsh environments including continuous high operating temperatures, hot humid environments and salt water immersion. Electrolube maintains high standards of environmental credibility, which run throughout the company from product packaging through to product development.

MacDermid Alpha Electronics Solutions enables electronics interconnection through the innovative specialty chemicals and materials from our Alpha, Compugraphics, Electrolube, Kester, and MacDermid Enthone brands. We serve all global regions and all steps of device manufacturing within every segment of the electronics supply chain. The experts in our Semiconductor Solutions, Circuitry Solutions, and Assembly Solutions divisions collaborate with OEMs and fabricators in the implementation of new technologies that redefine what is possible in device design. Our world class technical service is constantly at hand to ensure optimized outcomes in yield and productivity. Our solutions can increase throughput, reduce carbon footprints, lower total cost of ownership, and enable electronics innovation.

For further information, please visit www.electrolube.com

About Electrolube

Electrolube, (MacDermid Alpha Electronics Solutions), is a leading manufacturer of specialist chemicals for electronics, automotive and industrial manufacturing. Core product groups include conformal coatings, contact lubricants, thermal management materials, cleaning solutions, encapsulation resins and maintenance and service aids.

The extensive range of electro-chemicals at Electrolube enables the company to offer a 'complete solution' to leading manufacturers of electronic, industrial, and domestic devices, at all levels of the production process. Through collaboration and research, the company is continually developing new and environmentally friendly products for customers around the world and their commitment to developing 'greener' products has been endorsed by the ISO 14001 standard for the highly efficient Environmental Management System in place at the company.

Electrolube is represented in over 60 countries with an established network of subsidiaries and distributors. By offering genuine security of scale and a reliable supply chain, the company can deliver a truly tailored service.

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