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Integral Announces Completion of Production of Bi-Polar Plates for the Lead Acid Battery Market

EVANSVILLE, Ind., Sept. 22, 2016 /PRNewswire/ -- [Integral Technologies, Inc.](#) (OTC-QB: ITKG) ("Integral"), an emerging light-weighting leader and its wholly owned subsidiary ElectriPlast Corp., today announced that it has completed the manufacture of over 100 state of the art bi-polar battery plates. [Advanced Battery Concepts, LLC](#) ("ABC") has started integrating these plates into lead acid bi-polar batteries as agreed upon under the terms of the [Joint Technology Assessment Program](#). Several batteries are planned to be produced over the coming weeks, incorporating multiple variations of its plate design and construction.

"The data we've compiled over the last year, demonstrates that our bi-polar plate design satisfies all industry performance metrics for bi-polar lead acid batteries, as well as enabling high volume manufacturability that supports aggressive cost targets. Without a feasible bi-polar plate and bi-polar battery construction, the lead acid battery industry will not be able to compete for the new energy storage market as laid out in the [Advanced Lead Acid Battery Consortium](#) ("ALABC") Report and R&D Program for 2016-2018. The ALABC Report and R&D Program follow the requirements, as defined by the automotive industry and USABC specifications for year 2020. Our participation and technical presentation of the ElectriPlast bi-polar plate technology at [The Battery Show 2016](#), has attracted the attention of key industry participants, as a result we are currently discussing several joint projects that would further marry our technology, with the newest developments in lead acid battery materials and chemistries, stated Slobodan (Bob) Pavlovic, ElectriPlast's Vice President of Engineering and the lead developer of the technology. Our technology is ideal for lead acid bi-polar/lead carbon bi-polar and vanadium redox flow batteries for high energy /high power storage systems and can be developed for other chemistries. Our studies have shown that with ElectriPlast bi-polar plate technology, lead acid bi-polar batteries are meeting size, weight, performance and cost requirements set by [USABC](#) for 12V start stop vehicle applications and 48V Hybrid – Electric vehicles applications", concluded Pavlovic.

At the center of its international patent application ("PCT") for the bi-polar plate technology, is ElectriPlast's industry leading conductive plastic materials technology enabling the creation of the highly conductive polymer compounds needed for applications where conductivity of the final product needs to be compatible with conductivity of certain metals. In the case of the bi-polar plate, the specified minimum current density is 0.22 A/cm(2), while ElectriPlast, using its proprietary material, has current density that is more than two times (2X) higher. The ElectriPlast highly conductive polymers form the foundation to which the bi-polar plates are made using molding processes that ensures proper cell sealing and plate integration into the battery assembly. ElectriPlast's bi-polar plates have demonstrated that it provides twice the capacity compared to existing standard lead acid batteries.

"With the cooperation of battery industry partners and partners with advanced manufacturing expertise, we have experienced an accelerated development of our bi-polar plate technology," stated Doug Bathauer, Integral's CEO. In recent months we have seen greater interest from the automotive industry, as electrification of the automobile continues to bolster demand for better solutions for 12V and 48V battery applications. Non-automotive applications, in particular, those that cater to personal transportation, such as electric scooters, bicycles, motorcycles, and wheel chairs may present and even greater opportunity for us. We continue to make progress with [The Ultimate Battery Co.](#), and are working to finalize certain terms of the MOU to enable us to proceed to a definitive agreement, in addition we continue to pursue other domestic and international licensing partners," said Bathauer.

About Integral Technologies, Inc.

Integral Technologies Inc. ([OTC-QB: ITKG](#)) and wholly owned subsidiary [ElectriPlast Corp.](#), engage in the discovery, development, and commercialization of electrically conductive hybrid plastics used primarily as raw materials in the production of industrial, commercial and consumer products and services worldwide. Its core material, ElectriPlast®, is a non-corrosive, electrically conductive resin-based material whose properties allow it to be molded into any of the infinite shapes and sizes associated with plastics, rubbers and other polymers while reducing component weight by 40 to 60%. Integral is a leader in conductive hybrid plastics with a broad Intellectual Property portfolio referencing its ElectriPlast technology. Applications for ElectriPlast include: Shielding Wire, Power Electronics, Connectors, and Cables; Shielding, Conduction, Batteries, Semiconductors, Heated Elements, Sensors, Antennas, Medical Devices, Consumer Electronics and Acoustics, Fuses, Capacitors, Resistors, RFID, Bus bars and Terminals.

Safe Harbor Statement

This press release contains "forward-looking statements" within the meaning of Section 27A of the 1933 Securities Act and Section 21E of the 1934 Securities Exchange Act. These statements include, without limitation, predictions and guidance relating to the company's future financial performance and the research, development and commercialization of its technologies. In some cases, you can identify forward-looking statements by terminology such as, "may," "should," "expects," "plans," "anticipates," "believes," "estimates," "predicts," "potential," "continue," or the negative of these terms or other comparable terminology. These forward-looking statements are based on management's current expectations, but they involve a number of risks and uncertainties. Actual results and the timing of events could differ materially from those anticipated in the forward-looking statements, as the result of such factors, risks and uncertainties as (1) competition in the markets for the products and services sold by the company, (2) the ability of the company to execute its plans, (3) other factors detailed in the company's public filings with the SEC, including, without limitation, those described in the Company's annual report on Form 10-K for the year ended June 30, 2015 as filed with the Securities and Exchange Commission and available at www.sec.gov, and (4) the parties may be unable to agree upon definitive agreements. You are urged to consider these factors carefully in evaluating the forward-looking statements

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