



## Press Release

**Cutting Edge Superconductors, Inc. announces the discovery of a new type of conducting plastics, and the development of a subsidiary company CE Plastics (Cutting-Edge Plastics) to market this technology.**

**Mayaguez, Puerto Rico - August 27, 2014** - Cutting Edge Superconductors (CES) announces a discovery of new conducting plastics which has the potential to disrupt the field of molecular electronics of conductive polymers. The current conductive polymer market size is estimated to be \$3.4Billion in 2017 with a growth rate (CAGR) of 7.7% from 2012-2017.

Nevertheless, the current conductive polymers are mostly underdeveloped due to a fundamental scarcity of suitable organic materials with conductive properties and due to low potential for processability. CES's new type of conducting plastics in effect overcomes these physical limitations. The discovery happened accidentally during our National Science Foundation (NSF) Small Business Innovation Research (SBIR) project, supported by PR Science Trust and PR Dept. of Economic Development and Commerce.

The new product is based on Boron and Carbon, with several other elements incorporated during the fabrication process. These base elements make up for a new type of material compound which is remarkably strong, durable and light-weight. Properties commonly found in hard plastics, but with the compound having the exceptional property of electrical conduction. The material is in effect, a conducting plastic.

The fabrication process is straightforward compared to present conducting polymer technologies. By manipulating few parameters in the production process, its resistance can be tuned from being highly conductive, semi-conductive, or insulating, with the resistivity ranging over 20 orders of magnitude. This technology has a wide set of applications, ranging from structural manufacturing in the auto industry to electrical applications such as computer screens, rechargeable batteries, OLED design, solar panels, or even for producing conductive 3D printing filaments.

Once the worldwide patent process for this material has been completed, further details will be released to the public regarding the first market applications developed by CE Plastics (Cutting-Edge Plastics). Additional information can be found in <http://www.cuttingedge-plastics.com>.

CE Plastics is a subsidiary that has branched from CES (Cutting Edge Superconductors, Inc.), a company whose main focus is producing MgB<sub>2</sub> wires for next generation cryogen-free 1.5T and 3T MRIs. CES has recently proven the viability of its exclusively owned world's best patented technology for producing MgB<sub>2</sub> superconductive wires.

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