



X-MAT® wins nearly \$1 million Department of Energy contract for battery research

Orlando inventions company testing recycled materials, including coal, for batteries

ORLANDO, Fla. (February 18, 2020) – Could West Virginia coal or recycled graphite be used to help power your phone or car? A research and development company near the University of Central Florida thinks so.

X-MAT®, the Advanced Materials Division of Semplastics, is working on breakthrough technology to take clean coal and use it for batteries.

Along with this new coal research, Semplastics' battery lab at UCF has had a number of recent breakthroughs, including the testing of waste graphite as a power source. The company is working on proving the patent-pending X-MAT coating technology can make recycled graphite twice as powerful as new graphite.

The Department of Energy has taken notice of X-MAT®'s important work. It has awarded a nearly \$1 million contract to help fund the research for turning coal into batteries. This is the second major contract the DOE has awarded X-MAT® for developing new, cleaner ways to use coal.

Last year, Semplastics won a \$1.5 million DOE grant for coal-infused roof tiles. X-MAT®'s eco-friendly roofing tiles, the X-TILE™, are lightweight, fireproof and can withstand extreme temperatures.

X-MAT® Founder Bill Easter said the advancements coming from his lab are exciting and, quite possibly, revolutionary.

“We are focused on finding new and better ways to recycle materials – some of it literally trash – to power and protect the world,” said Easter. “We are thankful for the continued support from the DOE and for the new contract to further battery research with coal.”

“Our patented technology is showing the battery industry that there are new substances that can be used to help protect the planet and drive down the cost of materials used in batteries of all types. This new contract will help us further the development,” said Easter.

Over the past several years, X-MAT® has received federal and state awards for its development of high-performance materials that are lightweight, highly conductive and strong.

To learn more about X-MAT®, including investment opportunities contact Gordon Nameni at gordon@x-materials.com, Cris DiRuggiero at cris@x-materials.com or visit <https://www.x-materials.com>.

About X-MAT®, the Advanced Materials Division of Semplastics

X-MAT®, the Advanced Materials Division of Semplastics, launched in 2013. X-MAT® developed a revolutionary high performance material that combines some of the best properties of metals (electrical conductivity), engineering plastics (lightweight) and ceramics (high operating temperature). X-MAT® has had several partnerships including work with NASA, Space Florida and the NETL. X-MAT®'s game-changing material has various current applications including fireproof roof tiles, lightweight space mirrors, battery electrodes and 3D printed ceramics. X-MAT® technology can be custom-engineered to fit many specifications and has unlimited potential market applications. To learn more about X-MAT® capabilities and future projects, visit their website at <https://www.x-materials.com> or call (407)353-6885.

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