



Strategic Polymer Sciences, Inc.

Enabling Technology to Improve the Quality of Living

News

200 Innovation Blvd., Suite 237 State College, PA 16803 www.strategicpolymers.com (814) 238-7400

Contact: Tom Mariam, Mariam Communications, (914-939-4294 or tom@mariam.biz)

For Immediate Release

Strategic Polymer Sciences Announces Major Breakthrough for High Energy Density Dielectric Capacitor Films

State College, Pa November 18, 2008 – Strategic Polymer Sciences, Inc. (SPS) has announced a major breakthrough in the production of capacitors with higher energy density.

SPS together with Solvay Solexis have demonstrated the volume manufacture of high quality dielectric capacitor films based on SPS' proprietary fluoropolymer technology at thicknesses down to 2.5 microns with excellent uniformity. The high energy density capacitor films exhibit energy density in the film level of more than 25 J/cc. The breakthrough in fabrication of the polymer thin films leads to high energy density at the capacitor level.

The breakthrough is the result of a decade of polymer research performed by Strategic Polymer Sciences' chief technology officer, Qiming Zhang, and the Solef grade resins developed and produced by Solvay Solexis.

The successful trial demonstration of this capability will allow for Strategic Polymer Sciences to rapidly enter into the capacitor market, specifically for high-margin military, transportation, and medical applications. The manufacturing breakthrough will improve the price/performance capability in capacitors used in a number of industries, including those used in medical devices, hybrid-electric vehicles, and energy intensive military applications.

“The high quality dielectric capacitor films exhibit excellent dielectric breakdown voltages and energy densities that will continue to be improved in future development, said Dr. Shihai Zhang, Director of Engineering. “With its self healing feature and high dielectric constant, the SPS capacitors can store much more electric energy than other film, ceramic, and electrolytic capacitors, and enable the miniaturization of many electronic devices.”

“We are very excited that SPS technology now permits mass production of capacitors that will significantly increase the operating performance for many of the applications that use these components,” said Ralph Russo, co-founder, president and CEO of Strategic Polymer Sciences. “This manufacturing breakthrough is an important step forward in the marketplace for Strategic Polymer Sciences and its customers and business partners.”

The manufacturing trial was conducted with Solvay Solexis, one of the leaders in fluoropolymers production, and Strategic Polymer Sciences' partner in the development of high performance capacitor films.

“We believe that the PVDF SOLEF® technology assuring polymer of highest quality and consistency is well designed for the demanding capacitors market. This development will complement and further strengthen our position in the energy sector”, said Jens Hoeltje, Business Manager of Solvay Solexis Melts Fluoropolymers.

Strategic Polymer Sciences, Inc. (SPS) is an early-stage startup company that develops new materials and device technologies and commercializes polymeric electronic materials and devices that will revolutionize energy storage and medical therapeutics. Its applications range from lowering the cost and increasing the efficiency of hybrid electric vehicle engines and implantable cardiac defibrillators to the creation of lower cost, more efficient, and more effective steerable medical catheters for cardiac and other applications. SPS recently closed a Series A funding round of \$3 million. The investment is being used to speed the development of manufacturing processes for SPS' electroactive polymers and cardiac ablation catheters.

Strategic Polymer Sciences was founded in 2006 by Ralph Russo—a Silicon Valley business leader with prior senior executive experience at Apple Computer, AlliedSignal, Nortel, and Bay Networks—and Dr. Qiming Zhang—Distinguished Professor of Electrical Engineering and Materials Science at The Pennsylvania State University and one of the world's leading experts in electroactive materials. The company is headquartered in State College, PA Additional information about Strategic Polymer Sciences can be found at www.strategicpolymers.com.

Solvay Solexis is an international producer of fluorospecialties and offers a complete range of high-value products for the most advanced markets as semiconductors & electronics, surface treatment, pharmaceutical, building & architecture, wire & cables, automotive & aerospace, Oil & Gas, batteries, fuel cells, etc. Solvay Solexis is a member of the Solvay Group, a global leader in chemicals, plastics, and pharmaceuticals with more than 400 business units in over 50 countries.

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