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ALD NanoSolutions, Inc.

Precision NanoCoating for NanoParticles

ALD NanoSolutions Awarded \$99,927 Phase I STTR NSF Grant

December 20, 2005 - ALD NanoSolutions, Inc. has announced today the award of a \$100,000 Phase I Small Business Technology Transfer (STTR) grant from the National Science Foundation for "Ultrafast Response Transient Voltage Surge Suppressors (TVSS)."

The grant will focus on how Particle ALDTM can provide atomic scale insulative gaps between conducting micron sized particles in coaxial prototype TVSS devices. The electrical conduction between the particles is dominated by quantum tunneling. This gives Metal Insulating Varistor (MIV) devices a highly nonlinear dependence with respect to applied voltage, e.g., high resistance at system operating voltages and low resistance at threat voltages. Such devices can be used to protect the power infrastructure.

This research, done in partnership with the George/Weimer Laboratories at the University of Colorado - Boulder, is an important part in the company's continuing effort to prove the flexibility of atomic layer deposition in the custom designing of composite particles.

About ALD NanoSolutions

ALD NanoSolutions, Inc. is focused on commercializing its nano-coating processes, called Particle-ALDTM and Polymer-ALDTM, and is targeting collaborative research agreements with domain partners for the discovery and validation of innovative composite materials in selected industries. The company's proprietary technology is based on atomic layer deposition (ALD) coating chemistry methods developed for depositing ultra-thin films on particulate and polymeric surfaces. For more information, visit www.aldnanosolutions.com.