

ALD NanoSolutions, Inc.

Precision NanoCoating for NanoParticles

ALD NanoSolutions Awarded \$100,000 STTR Phase I Grant (Ferro-magnetic Materials) from NSF

Boulder, Colorado - January 1, 2003 – ALD NanoSolutions, Inc. has announced today the award of a \$100,000 Phase I STTR grant from the National Science Foundation for “Novel Nanocoated Ferro- magnetic Materials.” These funds will be used to further the company’s research on nano-scale material applications using a proprietary Atomic Layer Deposition (ALD) process to control particle surface chemistry.

ALD NanoSolutions will demonstrate the ability to protect small metal particles from oxidation. The model system will be fine iron particles coated with aluminum oxide. It is anticipated that this film will increase the temperature that these particles can be handled in air, while not affecting the desirable magnetic properties of the iron.

“We are conducting research to determine if the coating will change certain surface properties while leaving the bulk properties of the material in tact,” said Karen Buechler, Ph.D., President, ALD NanoSolutions. “If successful, the experiments will show that these fine metal particles can be more easily processed at high temperatures and in air. This will lead to significant advances in the ability to manufacture and process very fine and nanosized metal powders.”

This research, done in partnership with the George/Weimer Laboratories at University of Colorado – Boulder, will show the company’s command in functionalizing and passivating substrate innovative applications.

About ALD NanoSolutions

ALD NanoSolutions, Inc. was founded in 2002 by P. Michael Masterson, Dr. Karen Buechler, and University of Colorado Professors Dr. Steven George and Dr. Alan Weimer. The company’s proprietary technology is based on atomic layer deposition (ALD) coating chemistry methods developed by Dr. George and Dr. Weimer for depositing ultra-thin films on particulate surfaces. The company is focused on commercializing its nano-coating processes, called Particle ALD™ and Polymer ALD™, and is targeting collaborative research agreements with domain partners for the discovery and validation of innovative composite materials in selected industries. For more information, visit www.aldnanosolutions.com.

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