

ALD NanoSolutions, Inc.

Precision NanoCoating for NanoParticles

ALD NanoSolutions Awarded \$100,000 STTR Phase I Grant from NSF

Boulder, Colorado - June 1, 2004 – ALD NanoSolutions, Inc. has announced today the award of a \$100,000 Phase I STTR grant from the National Science Foundation for “Benign Thin Film Composite Particles for Protection from UVA/UVB Rays.” 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 surface chemistry.

ALD NanoSolutions will demonstrate the ability to manufacture composite particles of titanium dioxide, zinc oxide, and alumina and test this composite material’s ability to absorb and/or reflect ultraviolet radiation. This will be an improvement over current technology, which uses blends of titanium dioxide and zinc oxide

“It will be the first demonstration of multiple coatings on a fine particle to synthesize a ternary composite material, which is a very important technology development goal.” said Karen Buechler, Ph.D., President and Chief Technology Officer, ALD NanoSolutions. “From the market’s perspective, this composite material has the potential to replace current sunscreen materials, potentially reducing processing costs and eliminating the risks of free-radical generation posed by imperfectly coated titanium dioxide.”

This research, done in partnership with the George/Weimer Laboratories at the 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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