

# **ALD NanoSolutions, Inc.**

*Precision NanoCoating for NanoParticles*

## **ALD NanoSolutions, Inc. Receives Broad Process Patent Technology for Atomic Layer Deposition Technologies**

Boulder, Colorado - September 2, 2003 – ALD NanoSolutions, Inc. announced the receipt of U.S. Patent 6,613,383, “Atomic Layer Controlled Deposition on Particle Surfaces,” a broad-based process patent for practicing Particle-Atomic Layer Deposition or Particle-ALD™.

ALD NanoSolutions, Inc. has exclusive rights to practice and to license this technology and has exclusive rights to all future independent improvements developed in the George/Weimer Laboratories. The surface chemistry process has been validated, is economically scalable and suitable for commercial operation.

The Intellectual Property was developed by Dr. Steven George and Dr. Alan Weimer, of University of Colorado – Boulder, for depositing pinhole-free ultra-thin films on to particulate surfaces through atomic layer deposition (ALD) technologies. The non-agglomerated nanocoated particles are the result of self-limiting sequential surface chemical reactions that control the coating process.

The patent is related to the ALD nano-coating of generic fine particles and is independent of particle composition, size, morphology, or the film composition or thickness. The patent offers a unique commercial method for coating and encapsulating small particles with chemically bonded, high-purity, ultra-thin, nearly perfect films.

“This broad-based patent for Particle-ALD™ is the technology foundation for ALD NanoSolutions, Inc. upon which the company can build relationships with potential partners and to develop commercial applications in markets where functionalized ultrafine particles are required,” said Dr. Weimer.

### **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 and polymeric 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](http://www.aldnanosolutions.com).

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