

For Further Information, Contact:
Patricia Masterson, ABC
Patomalley74@msn.com
(617) 872-5046

Dr. Karen Buechler
kbuechler@aldnanosolutions.com
(303) 318-4145 Ext. 101

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ALD NanoSolutions, Inc.
Precision NanoCoating for NanoParticles

ALD NanoSolutions Awarded \$150,000 Phase I STTR NSF Grant

November 2007 - ALD NanoSolutions, Inc. has announced the award of a \$150,000 Phase I Small Business Technology Transfer (STTR) grant from the National Science Foundation (NSF) for "Flexible Inorganic/Polymer Multilayer Gas Diffusion Barrier Films". This award, effective January 1, 2008, will be used to develop flexible hybrid inorganic/polymer multilayer gas diffusion barriers to protect flexible organic electronic devices.

These flexible inorganic/polymer multilayer gas diffusion barriers will be fabricated by using the patent pending processes of depositing ALD films on polymers for the inorganic layers and the novel molecular layer deposition (MLD) process for depositing the polymer layers. Preliminary results indicate that these multilayer barriers should produce unprecedented performance. In particular, such ultrabarriers are needed for flexible organic light-emitting diode displays (FOLEDs), as these devices are extremely sensitive to oxygen and water that permeate through polymer films. This grant, under the supervision of ALD NanoSolutions' scientist Markus Groner, is the company's 13th small business grant. The research, done in partnership with the George Laboratory at the University of Colorado at Boulder, is an important part in the company's continuing effort to demonstrate the flexibility of atomic layer deposition for custom designing of composite protective films.

About ALD NanoSolutions

ALD NanoSolutions, Inc. 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. The company's proprietary technology is based on atomic layer deposition (ALD) coating chemistry methods developed for depositing ultrathin films on particulate and polymeric surfaces. For more information, visit www.aldnanosolutions.com.