We've Got It Covered

ALD Nano is expanding its IP portfolio with a new US patent, shipping a new reactor system design to LLNL, and playing a large role in the upcoming international ALD 2017 conference in Colorado. Painting at the atomic level is not always small as you will see with our “football fields coated” counter. Tap the buttons, links and images below to learn more about each story.

ALD 2017  ALD Nano News

ALD Nano Expands its IP Portfolio

ALD Nano and the University of Colorado Boulder recently celebrated the allowance of US Patent Application 12/664,858 “Protective Coatings for Organic Electronic Devices Made Using Atomic Layer Deposition and Molecular Layer Deposition Techniques” by the US Patent and Trademark Office. This technology was developed in the Professor Steven George laboratory at CU Boulder (Steve is an ALD Nano co-founder). The company’s IP portfolio now includes nearly 50 issued and pending patents in the US and many have relevant foreign equivalents, all related to atomic layer deposition (ALD) with an emphasis on particle ALD.

"The exciting new technology represented by this IP provides a method to create flexible multilayer barriers on polymeric supported materials such as flexible displays, lights, medical sensors and other electronic devices,” said Dr. Karen Buechler, ALD Nano CTO and co-founder. ALD Nano continues to conduct research and development efforts to optimize and scale the techniques described in the patent application and related publications. This IP expands the company’s ALD technology in the lighting, consumer electronics, life science and other markets.
New ALD Reactor System
Designed and Built for LLNL

Lawrence Livermore National Laboratory (LLNL) based in California is a mission driven organization within the US Department of Energy national lab system. For more than 60 years, LLNL has been conducting science and engineering to achieve breakthroughs for counterterrorism and nonproliferation, defense and intelligence, energy and environmental security. Last year LLNL chose ALD Nano to provide an NRTL certified rotary atomic layer deposition (ALD) reactor system with in situ monitoring, Meaglow plasma source, and integral glove box.

That system was shipped this spring to this venerable national lab. “We are pleased that LLNL recognized our expertise in developing optimal tools for ALD coatings on particles and high surface area substrates in their decision making process,” stated Joe Spencer, Director of Operations for the company. While ALD Nano specializes in providing ALD-enabled materials solutions to Fortune 1000 companies around the world it also sells its ALD reactors to research institutions and materials development partners.

ALD 2017 Conference to be Held in Colorado

The preeminent conference covering the science and technology of atomic and molecular level deposition and etching will be held in Denver, Colorado this July. The team at ALD Nano is pleased to be a platinum sponsor for this international conference and a number of its team members, founders and research collaborators at the University of Colorado Boulder are invited speakers. Among these are Professor Steven George (and a number of his students), Joe Spencer and Dr. Daniel Higgs of ALD Nano, and four

With ALD Nano's headquarters located in Broomfield, Colorado, about 20 minutes from the conference site in downtown Denver, we will be hosting an open house and facilities tour for our customers, collaborators and friends that will be arriving from Europe, Asia and North America. The event will be held 4pm to 7pm on Sunday, July 16th and ALD Nano will be providing free shuttles between the conference hotel and its headquarters beginning at 3:30pm that day. We are looking forward to sharing locally brewed
students of the Alan Weimer laboratory.

We are using the opportunity of our role with the conference to introduce a new theme, “We’ve got it Covered.” See the graphic above for a glimpse of how we are messaging our company’s leadership for ALD on particles and how ALD technology can produce solutions for advanced material challenges in various industries.

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**ALD Nano on the Road:**

ALD Nano is the current sponsor for the AIChE Nanoscale Science and Engineering Forum Young Investigator Award!

"This award recognizes outstanding interdisciplinary research in nanoscience and nanotechnology by engineers or scientists in the early stages of their professional careers." Presented at the AIChE Annual Meeting, this award allows the awardee to present and speak at the Annual Meeting as well as a plaque in their honor.

NSEF Young Investigator Award

ALD Nano technical experts visited customers in Qatar interested in Particle ALD catalysis applications in 2017. Key focus areas included the deposition of catalytic nanoparticles for various hydrocarbon forming reactions and methods using ALD deposited films to prevent sintering/deactivation of the active nanoparticles.

Let us know if you will be at the Joint EuroCVD 21 – Baltic ALD 15 Conference in Linköping, Sweden, 11-14 June, 2017. Some of our team members will be in attendance, exhibiting and available for meetings.
The number of equivalent football fields, and counting, that ALD Nano has coated at the atomic scale.