

## The ALD Times They are A-Changin'

ALD Nano welcomes a new CEO and two of its co-founders earn international awards. Also on tap, an update on the rapidly increasing number of football fields “coated” by the company and a list of conferences we are attending this fall! Click the buttons, links and images below to learn more about each story.

### **ALD NanoSolutions Board of Directors Names Wayne Simmons as Next CEO, Mike Masterson to Become Executive Chairman**

ALD Nano today announced that its Board of Directors has appointed Wayne Simmons as Chief Executive Officer effective September 2017. Dr. Simmons was also elected to the Board of Directors. He will replace Founding CEO, Mike Masterson, who will assume the role of Executive Chairman with an added advisory role for key markets and will continue to serve as Chairman of ALD Nano's Board. The company has also announced that Joe Spencer was elevated to Vice President of Engineering and that its employee base continues to expand with new hires in areas including engineering, science and business development.

“This is the right time for Wayne Simmons to become ALD Nano's next CEO. We've selected a successful leader at a time when ALD Nano's global leadership in ALD on particles is growing in existing and new markets ,” said ALD Nano Chairman Mike Masterson. “I joined ALD Nano because I wanted to be a part of a



Dr. Wayne Simmons



P. Michael Masterson

Prior to joining Sundrop, he was the

company that is solving important challenges for advanced materials that are transforming industries," said Wayne Simmons. "This company has built over a decade of ALD expertise with all of its business and scientific founders still active. Together, additional expertise has been added over the years that creates a wealth of institutional ALD knowledge to deploy into commercial markets."

Dr. Simmons most recently was the CEO and a board member for Sundrop Fuels. He has over 35 years of experience in the energy, chemical and environmental industries including over 15 years in chief executive roles. He brings a long successful track record of building partnerships with Fortune 500 companies to rapidly bring new technology to commercial deployment.

founding CEO of Velocys, Inc., a microchannel chemical process technology company. In addition to other early stage companies, Dr. Simmons spent much of his early career in various management and engineering positions at Exxon. He received engineering degrees with his B.S. from Texas A&M, an M.S. from the California Institute of Technology and a Ph.D. from the University of Wisconsin. In addition, he complemented these with the Executive Management Program at the University of Michigan Business School.



**Alan Weimer, Co-Founder of ALD Nano, Receives Lifetime Achievement Award**

CU Boulder Professor and ALD Nano co-founder Alan Weimer will receive the American Institute of Chemical Engineers (AIChE) Lifetime Achievement Award for Particle Technology. The award is being given for his work covering fundamental understanding, discovery, engineering scale-up and commercialization of processes to synthesize ultrafine ceramic powders and to functionalize ultrafine particle surfaces with nanoscale films. Professor Weimer has spent much of his



The process was later sold to Sandvik Coromant and commercialized in Coromant, UK, leading to the manufacture of high-end cutting tools, including circuit board microdrills.

He received Dow's Ceramics Founder's Award (1990), Inventor of the Year Award (1993), and Excellence in Science Award (1995) before joining the faculty at the University of Colorado Boulder (CU) in 1996. At CU he co-invented Particle ALD processes for coating primary particles with films, leading to the co-founding of ALD NanoSolutions in 2001. He has received five additional major awards from AIChE and the U.S. Dept. of Energy. He is named as an inventor on 38 issued U.S. Patents and has published 200 papers in peer-reviewed research journals.

career processing powders. He invented the commercial Dow Chemical Company Rapid Carbothermal Reduction process for producing ultrafine non-oxide ceramic powders including tungsten carbide.

He will receive the award at the 2017 Annual AIChE Meeting to be held in Minneapolis in November.



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**CU Boulder Professor Steven George Receives the John A. Thornton Memorial Award by AVS**

AVS has announced that CU Boulder Professor and ALD Nano co-founder Steven George will receive the John A. Thornton Memorial Award and Lecture 2017. AVS is the leading, international professional society among academic, industrial, government, and consulting professionals in basic science, technology development, and commercialization of materials, interfaces, and processing.

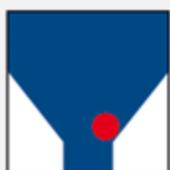
According to AVS, this award recognizes outstanding research or technological innovation in the areas of interest to AVS with emphasis on the fields of thin films, plasma processing, and related topics. The award is conferred biennially and consists of a cash award, a commemorative plaque stating the nature of the award, and an honorary lectureship at a regular session of the AVS International Symposium this fall.

Professor George will be receiving the award for "seminal contributions to understanding, development and applications of atomic layer deposition." He will be delivering his honorary lecture at the AVS 64 meeting in October 2017. The lecture is titled: "Atomic Layer Deposition: Highlights from the Last 25 Years." Professor George has received a number of awards including the ALD Innovation Award from the AVS International Conference on Atomic Layer Deposition (2013), an R&D 100 Award for Particle-ALD (2004), an NSF Creativity Award (2002-2004), an NSF Presidential Young Investigator Award (1988-1993), and an Alfred P. Sloan Foundation Fellowship (1988). He is also a co-founder of ALD NanoSolutions, Inc., has more than 400 publications in the areas of thin film growth and etching, surface science, and physical chemistry. and he currently has 16 issued U.S. or PCT patents and 12 U.S. or PCT patent applications undergoing review.

# THE **BAT**TERY SHOW NORTH AMERICA

Some of the ALD Nano Family will be in attendance at The Battery Show North America 2017, held in Novi, Michigan September 12-14.

Let us [know](#) if you would like to schedule a meeting at the conference.



## POWTECH 2017

Some of the ALD Nano Family will also be in attendance at POWTECH 2017, held in Nuremberg Germany September 26-28.

Let us [know](#) if you would like to schedule a meeting at the expo.

**The number of equivalent football fields,  
and counting, that ALD Nano has coated  
at the atomic scale**

1 1 5 4 6 1



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