



December 6, 2016

University of California, Berkeley Places Order For Plasma Enhanced Atomic Layer Deposition (PEALD) System From Ultratech Cambridge Nanotech For Research Activities

Ultratech-CNT's New Fiji G2 PEALD System chosen by White House-honored scientist for novel ferroelectric materials research

SAN JOSE, Calif., Dec. 6, 2016 /PRNewswire/ -- **Ultratech, Inc.** (Nasdaq: UTEK), a leading supplier of lithography, laser-processing and inspection systems used to manufacture semiconductor devices and high-brightness LEDs (HB-LEDs), as well as atomic layer deposition (ALD) systems, today announced that the Laboratory for Emerging and Exploratory Devices (LEED), led by Professor Sayeef Salahuddin, Ph.D. of the Electrical Engineering and Computer Sciences Department at UC Berkeley (EECS UC Berkeley), has chosen the Ultratech-CNT Fiji G2 PEALD system as its instrument of choice for its research activities. Professor Salahuddin was recently honored at the White House by President Barack Obama for his work in developing nano-scale electronic and spintronic devices for low power logic and memory applications.

"ALD provides an exciting way of accessing ferroelectric materials, which play a key role in these types of devices, by providing a means of controlling the film properties through the precise engineering of the composition," noted Professor Salahuddin. "This has led the way for us to explore the ferroelectric properties of rare earth oxides, such as Hafnium oxide, by adding a variety of dopants, such as silicon (Si), aluminum (Al), and yttrium (Y). Our decision in choosing the Fiji system was motivated not only by the system's performance, and flexibility but also because of the strong reputation that the Ultratech ALD team has for R&D expertise, coupled with its excellent support."

Adam Bertuch, senior thin film scientist at Ultratech-CNT, who has played a key role in the development of PEALD oxides at the company, said, "The Fiji is an extremely versatile instrument, which has been at the leading edge of the development of complex materials. Professor Salahuddin's work in the field of ferroelectric materials speaks for itself, and we are looking forward to having a strong collaborative relationship with him, as well as his scientific group at UC Berkeley."

Ultratech Fiji G2 ALD System

For advanced thin films, the Fiji series is a modular, high-vacuum ALD system that accommodates a wide range of deposition modes using a flexible architecture and multiple configurations of precursors and plasma gases. The result is a next-generation ALD system capable of performing thermal and plasma-enhanced deposition. Ultratech CNT has applied advanced computational fluid dynamics analyses to optimize the Fiji reactor, heaters, and vapor trap geometries. The system's intuitive interface makes it easy to monitor and change recipes and processes as required. The Fiji is available in several different configurations, with up to six heated precursor ports that can accommodate solid, liquid or gas precursors, and up to six plasma gas lines. Options include a built-in ozone generator, Load Lock as well as several in-situ analysis tools, which offer significant experimental flexibility in a compact and affordable footprint.

Safe Harbor

This release includes forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements can generally be identified by words such as "anticipates," "expects," "may," "remains," "thinks," "intends," "believes," "estimates," "provides," "demonstrates," and similar expressions and include management's current expectation of its longer term prospects for success. These forward-looking statements are based on our current expectations, estimates, assumptions and projections about our business and industry, and the markets and customers we serve, and they are subject to numerous risks and uncertainties that may cause these forward-looking statements to be inaccurate. Such risks and uncertainties include the timing and possible delays, deferrals and cancellations of orders by customers; quarterly revenue fluctuations; industry and sector cyclicality, instability and unpredictability; market demand for consumer devices utilizing semiconductors produced by our clients; our ability to manage costs; new product introductions, market acceptance of new products and enhanced versions of our existing products; reliability and technical acceptance of our products; our lengthy sales cycles, and the timing of system installations and acceptances; lengthy and costly development cycles for laser-processing and lithography technologies and applications; competition and consolidation in the markets we serve; improvements, including in cost and technical features, of competitors' products; rapid technological change; pricing pressures and product discounts; our ability to collect receivables; customer and product concentration and lack of product revenue diversification; inventory obsolescence; general economic, financial market and political conditions and other factors outside of our control; domestic and international tax policies; acquisitions, cybersecurity threats in the United States and globally that could impact our industry, customers, and technologies; and other factors described in our SEC reports including our Annual Report on Form 10-K filed for the year ended December 31, 2015. Due to these and other factors, the statements, historical results and percentage relationships set forth herein are not necessarily indicative of the results of operations for any future period. We undertake no obligation to revise or update any forward-looking

statements to reflect any event or circumstance that may arise after the date of this release.

About UC Berkeley EECS:

Part of the mission of the Electrical Engineering and Computer Sciences department at UC Berkeley is to educate future leaders through a rigorous curriculum of theory and application that develops student ability to solve problems individually and in teams. Its undergraduate and graduate EECS programs rank in the top three nationwide and attract researchers and students from around the world. Berkeley's EECS program has a strong tradition of collaboration that breaks down disciplinary and organizational boundaries. For more information, please visit www.eecs.berkeley.edu

About Ultratech: Ultratech, Inc. (Nasdaq: UTEK) designs, builds and markets manufacturing systems for the global technology industry. Founded in 1979, Ultratech serves three core markets: frontend semiconductor, backend semiconductor, and nanotechnology. The company is the leading supplier of lithography products for bump packaging of integrated circuits and high brightness LEDs. Ultratech is also the market leader and pioneer of laser spike anneal technology for the production of advanced semiconductor devices. In addition, the company offers solutions leveraging its proprietary coherent gradient sensing (CGS) technology to the semiconductor wafer inspection market and provides atomic layer deposition (ALD) tools to leading research organizations, including academic and industrial institutions. Visit Ultratech online at: www.ultratech.com.

(UTEKG)

Company Contacts:

Ultratech
Bruce R. Wright
Senior Vice President & CFO
Phone: 408/321-8835
The Blueshirt Group
Suzanne Schmidt, 415/217-4962
suzanne@blueshirtgroup.com

Agency Contact:

MCA, Inc.
Angie Kellen, 408/829-0106
Senior Account Director
akellen@mcapr.com

To view the original version on PR Newswire, visit:<http://www.prnewswire.com/news-releases/university-of-california-berkeley-places-order-for-plasma-enhanced-atomic-layer-deposition-peald-system-from-ultratech-cambridge-nanotech-for-research-activities-300373124.html>

SOURCE Ultratech, Inc.

News Provided by Acquire Media