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Nanometer-Level Positioning: A Mechatronic & System Design Approach

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Nanopositioning, or moving objects with atomic-scale precision, is a key enabling technology in areas such as semiconductor processing, microscopy and nano imaging, hard-drive and electronics manufacturing, and medical device manufacturing. The ability to reliably position a sensor, tool, or part to nanometer-level tolerances requires a deep understanding of all components in a motion system. As a result, careful selection of all elements of a mechatronic system such as stage elements (e.g., bearings, drive actuators, feedback sensors), electronic drive components, and the control system, is essential. In this webinar you will learn how a system-level approach is required to achieve true nanometer-level performance, as well as the basic design parameters for nanometer-level positioning performance including bearing, feedback, drive electronics, and controls algorithms.

Brian O'Connor is a Product Manager and has been part of the Aerotech team since 2002. Brian began his career at Aerotech as a mechanical development engineer initially working on process and metrology improvements as well as designing precision rotary and linear air-bearing products. Brian has worked in development engineering and engineering leadership positions at Aerotech before moving into his current role as a Product Manager. He has developed or managed various linear, rotary, gantry, and customized positioning systems and holds three patents for designs used in Aerotech products. In his current role, Brian's main area of focus is managing and coordinating new mechanical product development activities across all of Aerotech's market segments and departments.

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Date: Wednesday, March 11, 2015
Time: 1 p.m. EST

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