

Advanced Energy Partners With University of Colorado Boulder in First-of-Its-Kind Research Program

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Two Front Range leaders in power conversion collaborate to investigate applications of advanced power topologies and control techniques

FORT COLLINS, Colo.--(BUSINESS WIRE)-- [Advanced Energy Industries, Inc.](#) (Nasdaq: AEIS) – a global leader in highly engineered, precision power conversion, measurement and control solutions – today announced it has partnered with the University of Colorado Boulder (CU Boulder) to investigate applications of advanced power topologies and control techniques for emerging process power applications in a sponsored three-year program, with sponsorship support from AE’s Bob Porter Fellowship grant.

The collaboration encompasses creative endeavors combined with the most innovative resources from two Front Range leaders in power conversion—Advanced Energy (AE) and CU Boulder—whose goal is to enable new thin film process technologies and enhance the performance and reach of existing process approaches. The predicted outcome for the project, with respect to application flexibility, will have a broader impact on the efficiency of both cost and power conversion.

The first-of-its-kind research project is led by principal investigators John Dorrenbacher, AE’s senior technical staff member of innovation, and Dr. Dragan Maksimovic, endowed professor of electrical, computer and energy engineering at CU Boulder, who is an internationally recognized leader in power electronics research and education.

“We are honored to partner with world-renowned CU Boulder, whose researchers are empowered to explore new areas of energy science by leveraging resources and talents across the university’s dedicated institutes,” said Dr. Isabel Yang, chief technology officer, Advanced Energy. “Dr. Maksimovic’s work reflects CU Boulder’s commitment to advancing energy-efficient and renewable energy technologies, and in so doing, sparking commercial opportunity, driving global impact and shaping tomorrow’s leaders in the field.”

Dr. Maksimovic co-founded CU Boulder’s Colorado Power Electronics Center (CoPEC) in 1998 and has since served as the CoPEC co-director. CoPEC’s research program in smart power electronics and digital control for high-frequency switched-mode power converters has attracted significant support from numerous industrial sponsors and agencies (NSF, DARPA, ARPA-E, DOE, ONR, DOEd). A Fellow of the IEEE, he has published over 300 papers in journals and at professional conferences and holds over 30 US patents.

Headquartered in Fort Collins, Colo., AE is a global leader engineering the world’s most advanced power supplies and solutions for semiconductor and industrial manufacturers. AE combines diverse precision power and control technologies with technical expertise and support to ignite innovation around the world.

About Advanced Energy

Advanced Energy (Nasdaq: AEIS) is a global leader in the design and manufacturing of highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes. AE's power solutions enable customer innovation in complex semiconductor and industrial manufacturing applications. With engineering know-how and responsive service and support around the globe, the company builds collaborative partnerships to meet technology advances, propel growth for its customers and innovate the future of power. Advanced Energy has devoted more than three decades to perfecting power for its global customers and is headquartered in Fort Collins, Colorado, USA. For more information, visit www.advancedenergy.com.

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