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Dr. Xin Xue Joins Brithinee Electric

Mechanical Engineer specializes in micro-sensor development

Colton, California, November 2, 2009—Brithinee Electric, announces the recent addition of Xin “Crystal” Xue. A recent doctoral graduate in mechanical engineering from the University of California, Riverside, Xue is originally from Shanghai, China. Her original research is in wireless sensor technology for motor or generator condition monitoring.

While at UCR, Xue was part of a research team specializing in micro-sensor development, led by V. Sundararajan, assistant professor of mechanical engineering at Bourns College of Engineering. She has published numerous articles in the field, and frequently makes presentations at technical conferences, such as the ASME conference, recently held in San Diego, CA.

Brithinee Electric, a leading electric motor repair company located in Colton, CA, has supported research at the University of CA, Riverside to develop methods of monitoring the performance of most industrial electric motors. These wireless sensors require little or no maintenance, and offer extraordinary motor monitoring capabilities to the electrical motor industry.

At Brithinee, she will continue her research on creating sensor devices for the company’s motor test stand, to measure vibration, perform an FFT analysis (out to 15-times motor RPM) and spectrum analysis; and measure bearing “health” by using SKF’s fault frequency data, all processes designed to improve overall efficiency and cost-effectiveness for the industry. [Xue’s current projects](#) include: [The Application of Wireless Sensor Networks for Condition Monitoring in Induction Motors \(Feasibility Studies\)](#); [Energy Scavenging for Wireless Sensors in Induction Motors](#); [Fault Classification of Induction Motors Using Multi-Sensor Fusion](#); and, [Electrical Insulation Test](#); and, [Measuring Partial Discharge Inception Voltage \(PDIV\)](#).

In a paper Xue presented at the ASME International Mechanical Engineering Congress and Exposition in Seattle, she states, “Machinery maintenance accounts for a large proportion of plant operating costs. . . . The use of appropriate condition monitoring and maintenance management techniques can give industries significant improvements in efficiency, and directly enhance profitability.”

“We are excited Crystal is joining Brithinee at this time. Her expertise is greatly valued, and this new research promises to create better solutions to monitoring motor systems,” stated Wally Brithinee, President of Brithinee Electric. “Motors are so critical to modern life, that we are extremely pleased to contribute to this developing technology. We hope to be the first to commercially install these new sensors.”

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