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TTU Student Hoang Le To Attend Noise-Con 2014

by Jerry Renshaw

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Hoang Le, a native of Hanoi City, Vietnam, has been selected for the Hallberg Foundation award, aimed at undergraduate and graduate students working in noise control engineering. On September 8-10, Le will travel to NoiseCon 2014 in Fort Lauderdale, Fla. to present his work.



The conference addresses noise control in HVAC systems, automobiles, industrial settings, aircraft, outdoor noise, hearing conservation and other noise-related issues.

Le's paper, "Noise Reduction from Shop Vacuums By the Application of Helmholtz Resonator," focuses on the use of a smaller aperture in the machine's airway to cut noise. The design of the resonator actually directs noise back to the vacuum's motor, resulting in a significant noise reduction.

"Anyone who has blown across a soda bottle to generate a tone has used a Helmholtz resonator," said mechanical engineering professor Corinne Darvennes. "The Romans were using them to improve the acoustics of their amphitheaters. Current uses include reducing the noise generated by jet engines and submarines. Hoang's work shows great potential to reduce noise levels from shop vacs easily and inexpensively."

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