

Bioengineering Colloquium

**Friday
September 25, 2009**

**Presentation
4:00-5:00 pm
2112 Learned**

Open to the public

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Biomechanical and Human Performance Evaluation of Exoskeletons

Technological advances have enabled development of exoskeletons, which are essentially wearable robotic systems designed to augment human performance. In particular, lower extremity exoskeletons have demonstrated a potential to be used as load-carriage aids. This is important for the Military as demanding physical performance tasks and excessive loads continue to burden the dismounted soldier. Exoskeletons represent one potential approach to alleviate these burdens of the soldier. This seminar reviews past and current work being done in the biomechanical and human performance evaluation of exoskeletons for human performance augmentation and load carriage at the U.S. Army Natick Soldier Research Development, and Engineering Center. The evaluations of exoskeleton prototypes raises awareness that a cross discipline of efforts in engineering, biomechanics, and physiology are required for exoskeletons to succeed in enhancing human abilities.

Questions & Information:

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