

The effects of uneven terrain on human locomotion

A.S. Voloshina and D.P. Ferris
University of Michigan

This talk by A.S. Voloshina will be a review of the effect of uneven terrain on human locomotion, drawing in part from the following published articles and thesis:

Biomechanics and energetics of walking on uneven terrain. A.S. Voloshina, A.D. Kuo, M.A. Daley and D.P. Ferris, *J Exp Biol* 216, 3963-3970, 2013.

<http://jeb.biologists.org/content/216/21/3963.full.html>

Biomechanics and energetics of running on uneven terrain. A.S. Voloshina and D.P. Ferris. *J Exp Biol.* jeb.106518, 2015.

<http://jeb.biologists.org/content/218/5/711.short>

Biomechanics and Energetics of Bipedal Locomotion on Uneven Terrain. A.S. Voloshina. Ph.D. thesis, University of Michigan, 2015. [PDF](#)

Plus a lightning version of the following Dynamic Walking (2015) abstract that will also be presented as a poster:

A model-based analysis of the mechanics and energetics of walking on uneven terrain. A.S. Voloshina, A.D. Kuo, D.P. Ferris and C.D. Remy. Dynamic Walking, 2015. [PDF](#).