NE corner of Fifth Ave. and 34th St.

**Tuesday, November 15 @ 7pm**

CUNY Graduate Center, Room **C197**, NE corner of Fifth Ave. and 34th St.

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**Falls and hip fractures in older adults: bridging the divide between tissue and movement biomechanics**

**Stephen Robinovitch, Ph.D.**

Professor, School of Engineering Science

Simon Fraser University, Vancouver, Canada

Over 90% of hip fractures in older adults are due to falls. Current approaches to prevent hip fractures in seniors focus either on enhancing bone strength, or on reducing the risk and severity of falls. My research attempts to bridge these communities to provide a more comprehensive approach to hip fracture prevention and management. Using a unique “falling lab,” my team examines balance maintenance and recovery, and safe landing techniques in falls. We examine the impact forces applied to bone during falls on the hip and outstretched hands. We also conduct studies in long-term care sites in the Vancouver area, analyzing how real-life falls occur in older adults, captured through video networks and wearable sensors (over 1700 falls in 500 individuals to date, including 21 hip fractures). In more applied efforts, we work to develop low-cost solutions (e.g., wearable hip protectors and compliant flooring) to prevent injuries in the event of a fall, and on testing these interventions through randomized clinical trials.

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Dates for the spring 2017 NYC Bone Seminars are February 28 and April 25.

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There will be socializing before the seminar at the Heartland Brewery on the SW corner of Fifth Ave. and 34th St. starting at ~5:45pm – look for the “bone group” IN THE DOWNSTAIRS BAR AREA (and if you're interested in food and/or drink you can open a tab at the bar).

If you would like to be removed from this list or know of anyone who would like to be added, please let Susannah Fritton (Fritton@ccny.cuny.edu), Mitch Schaffler (mschaffler@ccny.cuny.edu), Luis Cardoso (cardoso@ccny.cuny.edu), or Oran Kennedy (oran.kennedy@nyumc.org) know.