MAYO CLINIC
College of Medicine

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Invited Presentation

BIOMEDICAL ENGINEERING SEMINAR

11:00 a.m.-12:00 noon, Friday, April 10, 2009
Mann Hall, Medical Sciences Building

Title: **Particle-Induced Osteolysis: Basic Biological Mechanisms and Regenerative Methods to Replace Lost Bone**

Presenter**: Stuart Goodman, M.D., Ph.D.**
Professor, Department of Orthopaedic Surgery
Stanford University, Stanford, CA

Abstract: Periprosthetic osteolysis results from the biological effects of excessive wear debris. Wear particles are distributed by intermittent waves of pressure during ambulation and motion of the joint, distributing the particles, inflammatory cells and mediators throughout the joint, into the adjacent bone and beyond. This stimulates a cascade of events resulting in bone destruction, potentially compromising prosthetic stability. This lecture will outline some principles elucidated by our laboratory and others on this subject, and describe our ongoing interest in using methods of regenerative medicine to replenish lost bone.

Host: Mike Yaszemski, M.D.

♦ See BME web page for list of speakers:
http://mayoresearch.mayo.edu/mayo/research/physio_bme/2009_bme_seminars.cfm