

2007-2008

Seminar

The Department of
Mechanical Engineering – Engineering Mechanics

Proudly Presents

Dr. Robert Spinner
Mayo Clinic

Robert J. Spinner, M.D. is a Professor of Neurologic Surgery, Orthopedics and Anatomy at the Mayo Clinic where he has a practice devoted to peripheral nerve surgery. He graduated from MIT (S.B.), Christ Church College, University of Oxford (M.St.) and Mayo Medical School (M.D.). He completed a residency in orthopedic surgery at Duke University and neurosurgery at the Mayo Clinic as well as fellowship training in peripheral nerve surgery. He is board certified in both neurosurgery and orthopedics.

Monday, Jan. 21, 2008 9:00 – 10:00 A.M. Room 1021, ME-EM Bldg.

Intraneural Ganglia: A Complex Clinical Problem Begging for a Hydrodynamic Explanation

Intraneural ganglia are rare mucinous cysts which occur within the epineurium of nerves and typically give rise to neurologic findings. For 150 years, their pathogenesis has been poorly understood and controversial. Recent evidence has identified stereotypic features which can be supported by three fundamental principles: 1) they derive from a joint origin, 2) their dissection and propagation is along the articular branch into the parent nerve, following a path of least resistance; and 3) their dimensions are determined by pressure fluxes. Clinical data which will be supplemented by collaborative biomechanical work will be presented to illustrate these principles.