

**Center for Fluid Mechanics, Division of Applied Mathematics  
Fluids and Thermal Systems Group, School of Engineering  
Joint Seminar Series**

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Tucson AZ**

**Mechanics of Blood Flow in the Microcirculation**

The term 'microcirculation' refers to the terminal branches of the circulatory system, with diameters ranging from a few micron to a few hundred micron. The flow properties of blood are strongly influenced by the presence of a large volume fraction of suspended red blood cells, which undergo large deformations as they flow through the microcirculation. The presence of a layer of macromolecules lining microvessel walls also has strong effects on flow. This talk will focus on theoretical approaches that have yielded insight into flow phenomena occurring in the microcirculation.

**TUESDAY – NOVEMBER 15, 2011  
4:00 PM  
Barus & Holley, Room 190**