

Invited Presentation

BIOMEDICAL ENGINEERING SEMINAR

11:00 a.m.-12:00 noon, Friday, February 6, 2009
Mann Hall, Medical Sciences Building

**Title: Newer Aspects of Acetazolamide at High Altitude:
Is It Better Than You Thought?**

**Presenter: Erik R. Swenson, Ph.D.
VA Puget Sound Health Care System
Seattle, WA**

Abstract: This presentation will examine the classical aspects of acetazolamide as an inhibitor of carbonic anhydrase to prevent and treat high altitude illnesses, such as acute mountain sickness. However, work in the last decade has identified other possible mechanisms for the effectiveness of acetazolamide independent of its inhibition of carbonic anhydrase related to the acute maladaptation to high altitude. These include inhibition of hypoxic pulmonary vasoconstriction, enhancement of alveolar fluid reabsorption and inhibition of aquaporins.

Host: Bruce Johnson, Ph.D.

◆ See BME web page for list of speakers:

http://mayoresearch.mayo.edu/mayo/research/physio_bme/2009_bme_seminars.cfm