



Announcing

A COS Seminar

November 14, 2008 at 2:00 pm

Walker Science Building 244

at The University of Southern Mississippi

Speaker: Alexander Pozhitkov

Gulf Coast Research Laboratory
University of Southern Mississippi

**Title: Microarray technology: computational issues
at the intersection of physics, chemistry and
informatics**

Abstract:

Microarray technology elucidates changes in gene expression levels of an organism or dynamics of microbial populations. Microarrays contain probes that measure gene-specific responses. There is no consensus in the field on the design of probes and the interpretation of microarray results. The design of specific probes poses a significant computational challenge due to the large number of genes and the unavailability of clear rules to follow. Also, interpretation of the microarray results has been a topic of intense debates in the field. The speaker will present a new computational paradigm for microarray design and interpretation based on his recent research.

Further Information

Further details and information about this and other departmental activities is available online at http://www.math.usm.edu/bulletin_board/.