



Friday, April 27, 2007
1:10pm—2:15pm

Lehigh Library and Technology Services invites you to a public lecture as part of
Second Annual High Performance Computing Day at Lehigh

Advanced Computing: Past, Present and Future

Kelly Gaither

Associate Director for Data and Information Analysis
Texas Advanced Computing Center, The University of Texas at Austin



“I will take a brief historical look at the technologies that have brought us to where we are today, and I will spend some time talking about what we as advanced computing practitioners and researchers are studying at the present. Finally, I will present future challenges to think about as you attend HPC Day at Lehigh University.”

This is an exciting time to be involved in High Performance Computing. Technology has matured to the point of becoming a pervasive tool for impacting society at large. Simulating global weather systems is becoming a reality rather than a dream. Societal impact can be found in almost all walks of life: global climate modeling, earthquake prediction, virtual surgeries, and vehicle design just to name a few. Dr. Gaither believes that the catalyst for this change has been the development and deployment of advanced computing technologies, encompassing all aspects of the high performance computing realm. We can no longer afford to focus solely on processor speeds and feeds. We are now concerned with all aspects of computing at the high end, from data acquisition, storage, and transfer, to compute, to real-time analysis. This new paradigm has evolved into what we now refer to as Advanced Computing – or an end-to-end study of the computational complexities and technologies at the high end of computing.

Rauch Business Center Room 91

For more information, please go to:

<http://www.lehigh.edu/computing/hpc/hpckeynote.html>