



## Events

[Current Events](#)[Lectures ▾](#)[Events Archive ▾](#)

## Special Guest Lectures

**Deploying Regional Cyberinfrastructure for Strategic Application Development and Support****Dr. Ravi K. Vadapalli, Research Scientist, High Performance Computing Center, Texas Tech University**

Applicant For CCT's CyD IT Analyst Position

Johnston Hall 338

October 01, 2007 - 11:00 am

**Abstract:**

Grid computing is an emerging collaborative computing paradigm to extend institutional/organization specific high performance computing capabilities greatly beyond local resources. Strategic application areas such as bioscience and medicine, energy exploration and environmental modeling involve strong interdisciplinary components and often require collaborations and computational capabilities beyond institutional limitations. In this talk, the mission and vision of Texas Internet Grid for Research and Education (TIGRE) project to address both computational and application specific challenges will be discussed. My contributions to the project in identification and development of applications in energy exploration and environmental modeling areas will be provided. With in the bioscience and medicine application area, our innovative efforts in engaging cancer researchers through high performance and distributed computing efforts, addressing medical and funding challenges through intercampus collaborations, will be outlined.

**Speaker's Bio:**

Dr. Ravi Vadapalli is currently employed as a Research Scientist at the High Performance Computing Center, Texas Tech University, in Lubbock, Texas. He is currently the contact for the deployment and running globus tool kit (GTK) 4.x based grid middleware services, user interface, troubleshooting, and lead for identification and deployment of grid applications. He has successfully engaged campus researchers in basic, medical and engineering faculties in innovative and interdisciplinary collaborations through TIGRE. The Texas Internet Grid for Research and Education (TIGRE) is the state-wide grid computing infrastructure project primarily between five (Rice, Texas A&M, Texas Tech University (TTU), University of Houston and University of Texas at Austin) major universities of Texas. The goal of TIGRE is to provide operational grid software that extends the scope of applications in bioscience and medicine, energy exploration, and environmental modeling. Dr. Vadapalli received his Ph.D. in Nuclear Physics from Andhra University, and his M.S. in Computational Engineering from Mississippi State University.

