

Chemistry Seminar

**“High Performance Computing Opportunities In the
Physical Sciences at SCSU”**

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**Wednesday, April 13
12:00 p.m.
Wick Science Building 122**

The High Performance Computing Group (HPCG) located in the Business Computing Research Laboratory (BCRL) has a 5 year track record of successful projects in the areas of molecular modeling and fluid dynamics. The mission of the HPCG and BCRL will be described in regard to how it relates to supporting scientific modeling and simulation projects. An overview of these projects coupled with the results and their impact through published results will be provided. The BCRL currently has initiatives in place to make its resources available beyond the College of Business and develop collaborative relationships with other departments/Colleges. The resources of the BCRL which include numerous computer clusters and represent a retail investment of approximately \$2 million will be described. Further, the manner in which potential users outside the current BCRL structure can take advantage of these resources will be delineated including potential publishing and grant related opportunities.

Three faculty/staff members with experience in scientific computational modeling will describe their research and provide results that depict that computer modeling/simulation can be a viable alternative to classical experimentation. It is planned to provide demonstrations as part of the presentation process.