

PURPOSE IN ATTENDING ISSGC09 BY KATHERINE HEGEWISCH

My name is Katherine Hegewisch and I am a graduate student in the Department of Physics and Astronomy at Washington State University in Pullman, Washington under the supervision of Dr. Steven Tomsovic. We are doing theoretical research on long range acoustic propagation in the ocean. For this research, we use computer simulations to develop and test our theories. For many years, we have managed to study our problem on a small network of computers running Unix and Linux with some computers having 2 processors each. But recently, our research demands have necessitated the use of grid computing. We have only just begun to use the Teragrid for our research, but see the need to get up to speed on grid computing quickly in order to meet graduation deadlines. I am interested in attending the summer school ISSGC09 in order to get a quick comprehensive introduction to grid computing to aid in transitioning my code to a computing grid such as the Teragrid. I also believe that the contacts and knowledge that I would gain at such an international summer school would be extremely useful in building a career in scientific computation.

EDUCATION BY KATHERINE HEGEWISCH

My education so far has been largely in mathematics, but has also included physics and engineering applications. I have a Bachelor's degree in Applied Mathematics and a Bachelor's degree in Statistics and a minor in Physics from Chico State University in Chico, California where I graduated summa cum laude. I have some work experience from summer internships testing satellites at Hughes Aircraft and writing Java code for Sandia National Laboratories. I have a Master's degree in Mathematics and a Master's degree in Physics from Washington State University in Pullman, Washington. I have been a graduate student in the PhD program in Physics at WSU for 4 years now. Within the last year, I have been making a lot of progress with the theory, computation and the writing of my dissertation and am determined to finish the PhD by December 2009.