

Il-Bong Kang

Lehigh Earth Observatory

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Our Team:

My team included Joanne Lee, Veronica Vollmer, and I. Dr. Al Bodzin was the Faculty Mentor for the K-12 Project. Our goal was to develop a user-friendly and informative LEO inquiry web site for K-12 students. Another goal is to engage the students in interdisciplinary science curriculum that emphasizes scientific inquiry of their local watershed by providing a site that delivers content and scientific concepts, visual and auditory tools, and instructions.

Job Description:

My responsibilities were mainly technical support for the project. I developed the template for the web site with various visual and auditory tools and the newest technology. Using the digital camera to take stills, mpeg movies, and panoramic pictures to display on the web site. I also used DVC (Digital Video Camera) to capture 6.5 hour long video footages. These video clips included several tutorial sessions about the hydroprobe and other equipment used in this project. They also contained interviews with various people in Lehigh River Watershed.

We participated in the Wildlands Conservancy's Lehigh River Sojourn and visited important sites along Lehigh River from the Headwater to Easton. This was a great opportunity for us to take stills and panoramic pictures in different sides of the river.

I have participated in several workshops to learn video streaming technology. I have learned two types of video streaming formats, aggressive and real time video streaming. We concluded that real time video streaming with a designated video server would solve the problem.

I have learned various programs and application such as iMovie, Photoshop, Unix command, Flash, and QTVR authoring tools. I have self taught some of the programs and for others I have taken classes offered at College of Education.