The SCI Institute has three major long-term goals. The first goal is to perform technical research into the computational and numerical methods required for scientific computing. The second goal is to explore the paradigm of integrated problem solving environments as an efficient approach for scientists in many disciplines to solve their own computational problems. The final goal represents our desire as researchers to use scientific computing to understand our own particular disciplines, for example, numerical mathematics, biophysics, electrocardiography, bioelectric fields in the brain, and medical imaging.