

## CEI helps Los Alamos National Labs win Defense Program Award of Excellence

*APEX, N.C., February 12, 2004* - Visualization scientists at Los Alamos National Laboratory (LANL) have worked with CEI, maker of EnSight visualization software, to earn a Defense Program Award of Excellence from the National Nuclear Security Administration (NNSA).

The award recognizes LANL's advanced visualization capabilities within the new Metropolis Center for Modeling and Simulation. The center supports more than 300 physicists, computer scientists and engineers. Completed in 2001, the visualization facilities allow scientists to see and understand the results of the large data sets they produce - often hundreds of millions of cells in size.

The center includes stereo graphics displays on scientists' desktops; a visualization theater with a 31-million-pixel, large-screen, stereo PowerWall display system; and three team-oriented collaborative environments with smaller-scale stereo PowerWalls. A CAVE immersive environment is also under construction. All of these systems use CEI's EnSight Gold for advanced visualization.

LANL and CEI have developed special features in EnSight Gold software to visualize large-scale computational results in VR environments. The software's remote parallel visualization capability has been especially valuable in LANL's work.

"The scientists find the remote visualization capability to be essential for analyzing terascale problems," says Robert Tomlinson, ASC VIEWS program manager at the Metropolis Center. "They can keep massive amounts of data on the supercomputer where it was generated - whether offsite or in our machine room - and run a client on a local visualization computer here in the Metropolis Center. This makes the visualization of terascale data sets routine."

LANL visualization scientists currently run EnSight Gold on large SGI visualization computers with 16 graphics pipes. CEI and LANL are partnering to develop the ability to visualize ever-growing datasets on both next-generation SGI shared-memory visualization systems and distributed-memory PC cluster visualization systems.

"The award confirms that CEI provides critical technology to LANL's Metropolis Center scientists," says Kent Misegades, CEI president. "We have proven that as a commercial supplier we can deliver a superior product that meets specifications, maintains competitive pricing, and is delivered on time. We are proud that the award also recognizes the collaborative spirit between CEI and LANL."

### About Los Alamos National Laboratory

Los Alamos National Laboratory is operated by the University of California for the National Nuclear Security Administration (NNSA) of the U.S. Department of Energy and works in partnership with NNSA's Sandia and Lawrence Livermore national laboratories to support NNSA in its mission.

Los Alamos develops and applies science and technology to ensure the safety and reliability of the U.S. nuclear deterrent; reduce the threat of weapons of mass destruction, proliferation and terrorism; and solve national problems in defense, energy, environment and infrastructure.

### About CEI

CEI offers a complete suite of tools for engineering and scientific visualization, from meshing to plotting to animations that can be run on the most advanced VR displays. The company has corporate headquarters in Apex, N.C., and authorized distributors around the world. In addition to software products, CEI provides consulting services to engineers and scientists from organizations that need to visualize computational results for research, product design or product refinement.

###

*CEI Press contact: Amanda Baley*  
919-363-0883; [amanda@ensight.com](mailto:amanda@ensight.com)