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## **SEOS FULLDOME DISPLAY FOR RENAISSANCE COMPUTING INSTITUTE**

SEOS has been selected to supply and install a 4-channel digital dome projection system for the Renaissance Computing Institute (RENCI, [www.renci.org](http://www.renci.org)). This immersive environment will be a central feature at RENCi's facility at the University of North Carolina at Chapel Hill, USA, and will incorporate the latest in tools for demonstration and research.

The 15ft diameter tilt dome will use four SXGA+ projectors, and be capable of displaying content from a variety of image generation devices, either fulldome, partial dome, or picture-in-picture. The dome will be fitted with full digital surround sound to provide occupants with a fully immersive environment. The system will enable users to view playback of fisheye fulldome movies and include production tools to create their own shows. The image generator is capable of displaying real-time content using the UniView™ software tool and database viewer.

Alan Caskey, SEOS Visualization Sales Director, Americas, explains, "We worked closely with RENCi to develop a custom solution that met their objectives of open architecture, and a highly flexible image generation and display environment, which is simple to use."

The dome will be located at the RENCi office on the UNC-Chapel Hill campus, and be used by UNC-Chapel Hill researchers to visualize a wide range of research data, including protein and gene interactions that relate to cancer and other diseases and mesoscale weather events such as hurricanes and resulting floods. It will also be used to develop experimental visual and performance artwork and allow humanities and social science researchers to present historical data and social phenomena in novel ways. The dome also will serve as an educational tool for students, helping them understand complex concepts through high-resolution, 3D imagery.

*UniView is a trademark of SCISS AB*

### **ABOUT SEOS**

SEOS is a leading global supplier of immersive visual display solutions, offering a complete design, development, production, installation and support service. Our products are used worldwide in simulators for military and commercial flight, air traffic control, marine and surface transportation, as well as for planetariums, science centers and digital immersive theater applications.

## **ABOUT RENCİ**

Launched in 2004 as a major collaborative venture of the University of North Carolina-Chapel Hill, Duke University and North Carolina State University and the state of North Carolina, RENCİ builds multidisciplinary collaborations that use innovative technologies to find solutions to complex, multidisciplinary problems.