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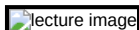**Interdisciplinary | Innovative | Inventive**

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CCT Distinguished Lecture

Emerging from the CAVE: Advanced Visualization and Collaboration Research at the Electronic Visualization Laboratory

Jason Leigh, University of Illinois at Chicago

Director, Electronic Visualization Laboratory, and Associate Professor, Computer Science
Life Sciences Building Annex A101 Auditorium
May 24, 2007 - 02:00 pm

Abstract:
In 1992 EVL invented the CAVE, a room-sized immersive virtual reality environment. Since then EVL has pursued a wide range of research topics. The presentation will provide an overview of EVL's recent research in visualization, high speed networking, and computer supported cooperative work that has been conducted as part of the OptIPuter project. The OptIPuter, so named for its use of Optical networking, Internet Protocol, computer storage, processing and visualization technologies, is an envisioned infrastructure that will tightly couple computational resources over parallel optical networks using the IP communication mechanism. The OptIPuter exploits a new world in which the central architectural element is optical networking, not computers - creating "supernetworks". This paradigm shift requires large-scale applications-driven, system experiments and a broad multidisciplinary team to understand and develop innovative solutions for a "LambdaGrid" world. The goal of this new architecture is to enable scientists who are generating terabytes and petabytes of data to interactively visualize, analyze, and correlate their data from multiple storage sites connected to optical networks.

Speaker's Bio:
Jason Leigh is an Associate Professor of Computer Science and director of the Electronic Visualization Laboratory (EVL) at the University of Illinois at Chicago. Leigh is a co-founder of the GeoWall Consortium and the Global Lambda Visualization Facility. Leigh leads EVL's research on the NSF ITR OptIPuter project, and has led EVL's Tele-Immersion research agenda since 1995. His current areas of interest include: developing techniques for interactive, remote visualization of massive data sets over high-speed networks; and for supporting long-term collaborative work in amplified collaboration environments.

This lecture has a reception.