

**Thomas A. DeFanti, Ph.D.,**

is director of the Electronic Visualization Laboratory (EVL), a distinguished professor in the department of Computer Science and director of the Software Technologies Research Center at the University of Illinois at Chicago.



DeFanti is an internationally recognized expert in computer graphics and networking. In the 32 years he has been at UIC, DeFanti has amassed a number of diverse credits, including: use of EVL hardware and software for the computer animation produced for the 1977 "Star Wars" movie; contributor and co-editor of the 1987 National Science Foundation-sponsored report "Visualization in Scientific Computing;" recipient of the 1988 ACM Outstanding Contribution Award; elected an ACM Fellow in 1994 and a Fellow of the International Engineering Consortium in 2000. Currently, he is principal investigator of NSF TransLight/StarLight projects that provide a persistent infrastructure to facilitate the long-term interconnection and interoperability of advanced international networking. He shares recognition along with EVL director Daniel J. Sandin for conceiving the CAVE virtual reality theater in 1991.

DeFanti has also been active in the ACM SIGGRAPH organization and in the ACM/IEEE Supercomputing (SC) conferences. Current and past activities include: secretary of SIGGRAPH (1977-1981); co-chair of the SIGGRAPH 79 conference; chair of SIGGRAPH (1981-1985); and continuing editor of the "SIGGRAPH Video Review" video publication, which he founded in 1979.

**MONDAY, APRIL 11, 2005**

**10 a.m. Registration**  
Cleary Alumni & Friends Center

**10:30 a.m. Keynote**  
*"Telepresence:  
Better Than Being There"*

**11:30 a.m. Reception for DeFanti**  
Cleary Alumni & Friends Center

**3 p.m. Symposium**  
*"Extraordinary Resolution  
Visualization, Virtual Reality and  
Networking"*

**4 p.m. Informal/questions/social**  
Cleary Alumni & Friends Center

All events are open to the public but may we suggest you reserve a place by registering in advance using the form attached.

Persons attending the Lecture Series may park in University Lot #12, the Cleary Alumni & Friends Center at East Avenue & La Crosse Streets.

**For further information contact:**

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**University of Wisconsin-La Crosse**

**Distinguished Lecture Series in  
Computer Science**

Make Lecture Series reservations for:

Name \_\_\_\_\_  
Title \_\_\_\_\_  
Organization \_\_\_\_\_  
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City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
E-mail \_\_\_\_\_  
Business Phone (\_\_\_\_\_) \_\_\_\_\_

Check events attending:

\_\_\_\_\_ Keynote Lecture  
\_\_\_\_\_ Reception  
\_\_\_\_\_ Symposium

Other participants from your organization:

Name \_\_\_\_\_  
Title \_\_\_\_\_  
Name \_\_\_\_\_  
Title \_\_\_\_\_

**Reservations are due April 8, 2005.**

Detach this card and send registration to:

UW-L Foundation  
Cleary Alumni & Friends Center  
615 East Ave. N.  
La Crosse, WI 54601  
(608)785-8489  
Fax (608)785-6868  
E-mail: [trapp.alle@uwlax.edu](mailto:trapp.alle@uwlax.edu)

## Keynote Lecture:

# “Telepresence: Better Than Being There”

What will happen when telepresence, that is, our senses travelling to other places at light speed, becomes really good? Many Midwest families are now spending more each month on communications (including telephones, cell phones, Internet access, on-line games and cable TV) than electricity and heat for their homes. These communications technologies are already good enough to replace some of our commuting and travel needs, particularly in shopping, learning, playing and keeping in touch with one another. What uses of telepresence might further replace our energy-consuming driving and flying around so much, and therefore pay for themselves? What will happen when telepresence is better than being there? Is it already? This lecture will examine cutting-edge visualization and collaboration technology aimed at providing extended tele-realism to our everyday lives.



*“Unfortunate consequences of early experimental head tracking hardware.”*

## Symposium Lecture:

# “Extraordinary Resolution Visualization, Virtual Reality and Networking”

The Electronic Visualization Laboratory at UIC has been researching advanced modalities of visualization over networks for over a decade, first hooking up CAVEs as 3D phone booths nationally and internationally. EVL is now addressing the delivery of 4000x2000 (8 megapixel — 4xHDTV) digital motion pictures, the exploration of 55-screen 100 megapixel collaborative spaces and virtual reality needing no

special viewing glasses. Providing visualization technologies such as these over distance involves developing new all-optical switching techniques, transport protocols, data handling, security and middleware. Applications in geoscience and neuroscience as well as entertainment are part of this effort to provide guaranteed bandwidth for new visualization application tools and techniques.

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*The University of Wisconsin-La Crosse Distinguished Lecture Series in Computer Science is funded by private gifts to the UW-La Crosse Foundation, Inc. and through support from the Department of Computer Science and the College of Science & Allied Health. The purpose of the series is to bring to La Crosse each year a computer scientist whose significant accomplishments and communication skills can inspire and enrich the careers of students and faculty and the computer community in general.*

*UW-L is one of 13 four-year campuses of the UW System. The university offers a broad range of undergraduate majors and master's level programs in selected disciplines. Current enrollment is about 8,600 students with approximately 100 computer science majors. La Crosse is located in western Wisconsin on the Mississippi River. It is on direct transportation routes between Chicago, Milwaukee, Madison and Minneapolis-St. Paul. It is served by Amtrak (Chicago, Milwaukee and St. Paul line) and numerous bus lines. Scenic secondary roads and highways (I-90 in particular) connect La Crosse with Chicago, Milwaukee, Madison, Rochester, and the Twin Cities. American Eagle, Northwest, and Skyway Airlines provide regular passenger service to major midwestern air terminals.*

UNIVERSITY of WISCONSIN  
**LA CROSSE**

## Distinguished Lecture Series in Computer Science



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Distinguished Professor of Computer Science  
University of Illinois at Chicago

**MONDAY, APRIL 11, 2005**  
**Cleary Alumni & Friends Center**

Co-sponsored by the  
University of Wisconsin-La Crosse Foundation Inc.  
Department of Computer Science  
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